Appendix D

Sediment Test Results

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

October 08, 2014

Brady Daniels
Aspen Environmental Group
5020 Chesebro Road
Suite 200
Agoura Hills, CA 91301-

Project Name: Little Rock 1116.02
Physis Project ID: 1407007-001

Dear Brady,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 8/15/2014. A total of 15 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Percent Solids by SM 2540 B
Percent Lipids by Gravimetric
Elements
Trace Mercury by EPA 245.7
Organics
Organochlorine Pesticides & PCB Congeners by EPA 8270D

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Misty Mercier
Extension 202
714-335-5918 cell
mistymercier@physislabs.com

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

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QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

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the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

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PHYSIS QUALIFIER CODES

CODE	DEFINITION
*	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified recovery and/or RPD acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore MS recovery and/or RPD acceptance limits do not apply
SL	analyte results for R1 and/or R2 were lower than 10 times the MDL, therefore RPD acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore MS recovery and/or RPD were outside the specified acceptance limits
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

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ANALYTICAL REPORT

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ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS
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Sample ID: 29128-R1 **L.R. Rocky Pt. Surface** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	90			% Recovery
(PCB112)	NA	85			% Recovery
(PCB198)	NA	101			% Recovery
(TCMX)	NA	85			% Recovery
2,4'-DDD	NA	ND	1	5	ng/dry g
2,4'-DDE	NA	ND	1	5	ng/dry g
2,4'-DDT	NA	ND	1	5	ng/dry g
4,4'-DDD	NA	ND	1	5	ng/dry g
4,4'-DDE	NA	ND	1	5	ng/dry g
4,4'-DDT	NA	ND	1	5	ng/dry g
Aldrin	NA	ND	1	5	ng/dry g
BHC-alpha	NA	ND	1	5	ng/dry g
BHC-beta	NA	ND	1	5	ng/dry g
BHC-delta	NA	ND	1	5	ng/dry g
BHC-gamma	NA	ND	1	5	ng/dry g
Chlordane-alpha	NA	ND	1	5	ng/dry g
Chlordane-gamma	NA	ND	1	5	ng/dry g
cis-Nonachlor	NA	ND	1	5	ng/dry g
Dieldrin	NA	ND	1	5	ng/dry g
Endosulfan sulfate	NA	ND	1	5	ng/dry g
Endosulfan-I	NA	ND	1	5	ng/dry g
Endosulfan-II	NA	ND	1	5	ng/dry g
Endrin	NA	ND	1	5	ng/dry g
Endrin aldehyde	NA	ND	1	5	ng/dry g
Endrin ketone	NA	ND	1	5	ng/dry g
Heptachlor	NA	ND	1	5	ng/dry g
Heptachlor epoxide	NA	ND	1	5	ng/dry g
Hexachlorobenzene	NA	ND	1	5	ng/dry g
Methoxychlor	NA	ND	1	5	ng/dry g
Mirex	NA	ND	1	5	ng/dry g

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	
trans-Nonachlor	NA	ND	1	5	ng/dry g	

Sample ID: 29129-R1 **L.R. Rocky Pt. Depth 1'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	87			% Recovery	
(PCB112)	NA	81			% Recovery	
(PCB198)	NA	94			% Recovery	
(TCMX)	NA	76			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/dry g	
2,4'-DDE	NA	ND	1	5	ng/dry g	
2,4'-DDT	NA	ND	1	5	ng/dry g	
4,4'-DDD	NA	ND	1	5	ng/dry g	
4,4'-DDE	NA	ND	1	5	ng/dry g	
4,4'-DDT	NA	ND	1	5	ng/dry g	
Aldrin	NA	ND	1	5	ng/dry g	
BHC-alpha	NA	ND	1	5	ng/dry g	
BHC-beta	NA	ND	1	5	ng/dry g	
BHC-delta	NA	ND	1	5	ng/dry g	
BHC-gamma	NA	ND	1	5	ng/dry g	
Chlordane-alpha	NA	ND	1	5	ng/dry g	
Chlordane-gamma	NA	ND	1	5	ng/dry g	
cis-Nonachlor	NA	ND	1	5	ng/dry g	
Dieldrin	NA	ND	1	5	ng/dry g	
Endosulfan sulfate	NA	ND	1	5	ng/dry g	
Endosulfan-I	NA	ND	1	5	ng/dry g	
Endosulfan-II	NA	ND	1	5	ng/dry g	
Endrin	NA	ND	1	5	ng/dry g	
Endrin aldehyde	NA	ND	1	5	ng/dry g	
Endrin ketone	NA	ND	1	5	ng/dry g	
Heptachlor	NA	ND	1	5	ng/dry g	
Heptachlor epoxide	NA	ND	1	5	ng/dry g	

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Hexachlorobenzene	NA	ND	1	5	ng/dry g	
Methoxychlor	NA	ND	1	5	ng/dry g	
Mirex	NA	ND	1	5	ng/dry g	
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	
trans-Nonachlor	NA	ND	1	5	ng/dry g	

Sample ID: 29130-R1 **Boat Ramp Surface** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	78			% Recovery	
(PCB112)	NA	78			% Recovery	
(PCB198)	NA	98			% Recovery	
(TCMX)	NA	75			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/dry g	
2,4'-DDE	NA	ND	1	5	ng/dry g	
2,4'-DDT	NA	ND	1	5	ng/dry g	
4,4'-DDD	NA	ND	1	5	ng/dry g	
4,4'-DDE	NA	ND	1	5	ng/dry g	
4,4'-DDT	NA	ND	1	5	ng/dry g	
Aldrin	NA	ND	1	5	ng/dry g	
BHC-alpha	NA	ND	1	5	ng/dry g	
BHC-beta	NA	ND	1	5	ng/dry g	
BHC-delta	NA	ND	1	5	ng/dry g	
BHC-gamma	NA	ND	1	5	ng/dry g	
Chlordane-alpha	NA	ND	1	5	ng/dry g	
Chlordane-gamma	NA	ND	1	5	ng/dry g	
cis-Nonachlor	NA	ND	1	5	ng/dry g	
Dieldrin	NA	ND	1	5	ng/dry g	
Endosulfan sulfate	NA	ND	1	5	ng/dry g	
Endosulfan-I	NA	ND	1	5	ng/dry g	
Endosulfan-II	NA	ND	1	5	ng/dry g	
Endrin	NA	ND	1	5	ng/dry g	
Endrin aldehyde	NA	ND	1	5	ng/dry g	

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Chlorinated Pesticides ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Endrin ketone	NA	ND	1	5	ng/dry g	
Heptachlor	NA	ND	1	5	ng/dry g	
Heptachlor epoxide	NA	ND	1	5	ng/dry g	
Hexachlorobenzene	NA	ND	1	5	ng/dry g	
Methoxychlor	NA	ND	1	5	ng/dry g	
Mirex	NA	ND	1	5	ng/dry g	
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	
trans-Nonachlor	NA	ND	1	5	ng/dry g	

Sample ID: 29131-R1 **Boat Ramp Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	85			% Recovery	
(PCB112)	NA	78			% Recovery	
(PCB198)	NA	97			% Recovery	
(TCMX)	NA	80			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/dry g	
2,4'-DDE	NA	ND	1	5	ng/dry g	
2,4'-DDT	NA	ND	1	5	ng/dry g	
4,4'-DDD	NA	ND	1	5	ng/dry g	
4,4'-DDE	NA	ND	1	5	ng/dry g	
4,4'-DDT	NA	ND	1	5	ng/dry g	
Aldrin	NA	ND	1	5	ng/dry g	
BHC-alpha	NA	ND	1	5	ng/dry g	
BHC-beta	NA	ND	1	5	ng/dry g	
BHC-delta	NA	ND	1	5	ng/dry g	
BHC-gamma	NA	ND	1	5	ng/dry g	
Chlordane-alpha	NA	ND	1	5	ng/dry g	
Chlordane-gamma	NA	ND	1	5	ng/dry g	
cis-Nonachlor	NA	ND	1	5	ng/dry g	
Dieldrin	NA	ND	1	5	ng/dry g	
Endosulfan sulfate	NA	ND	1	5	ng/dry g	
Endosulfan-I	NA	ND	1	5	ng/dry g	

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Endosulfan-II	NA	ND	1	5	ng/dry g	
Endrin	NA	ND	1	5	ng/dry g	
Endrin aldehyde	NA	ND	1	5	ng/dry g	
Endrin ketone	NA	ND	1	5	ng/dry g	
Heptachlor	NA	ND	1	5	ng/dry g	
Heptachlor epoxide	NA	ND	1	5	ng/dry g	
Hexachlorobenzene	NA	ND	1	5	ng/dry g	
Methoxychlor	NA	ND	1	5	ng/dry g	
Mirex	NA	ND	1	5	ng/dry g	
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	
trans-Nonachlor	NA	ND	1	5	ng/dry g	

Sample ID: 29132-R1 **Fishermans Pt Surface** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	95			% Recovery	
(PCB112)	NA	82			% Recovery	
(PCB198)	NA	97			% Recovery	
(TCMX)	NA	87			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/dry g	
2,4'-DDE	NA	ND	1	5	ng/dry g	
2,4'-DDT	NA	ND	1	5	ng/dry g	
4,4'-DDD	NA	ND	1	5	ng/dry g	
4,4'-DDE	NA	ND	1	5	ng/dry g	
4,4'-DDT	NA	ND	1	5	ng/dry g	
Aldrin	NA	ND	1	5	ng/dry g	
BHC-alpha	NA	ND	1	5	ng/dry g	
BHC-beta	NA	ND	1	5	ng/dry g	
BHC-delta	NA	ND	1	5	ng/dry g	
BHC-gamma	NA	ND	1	5	ng/dry g	
Chlordane-alpha	NA	ND	1	5	ng/dry g	
Chlordane-gamma	NA	ND	1	5	ng/dry g	
cis-Nonachlor	NA	ND	1	5	ng/dry g	

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Dieldrin	NA	ND	1	5	ng/dry g	
Endosulfan sulfate	NA	ND	1	5	ng/dry g	
Endosulfan-I	NA	ND	1	5	ng/dry g	
Endosulfan-II	NA	ND	1	5	ng/dry g	
Endrin	NA	ND	1	5	ng/dry g	
Endrin aldehyde	NA	ND	1	5	ng/dry g	
Endrin ketone	NA	ND	1	5	ng/dry g	
Heptachlor	NA	ND	1	5	ng/dry g	
Heptachlor epoxide	NA	ND	1	5	ng/dry g	
Hexachlorobenzene	NA	ND	1	5	ng/dry g	
Methoxychlor	NA	ND	1	5	ng/dry g	
Mirex	NA	ND	1	5	ng/dry g	
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	
trans-Nonachlor	NA	ND	1	5	ng/dry g	

Sample ID: 29133-R1 **Fishermans Pt Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

(PCB030)	NA	92			% Recovery	
(PCB112)	NA	84			% Recovery	
(PCB198)	NA	102			% Recovery	
(TCMX)	NA	84			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/dry g	
2,4'-DDE	NA	ND	1	5	ng/dry g	
2,4'-DDT	NA	ND	1	5	ng/dry g	
4,4'-DDD	NA	ND	1	5	ng/dry g	
4,4'-DDE	NA	ND	1	5	ng/dry g	
4,4'-DDT	NA	ND	1	5	ng/dry g	
Aldrin	NA	ND	1	5	ng/dry g	
BHC-alpha	NA	ND	1	5	ng/dry g	
BHC-beta	NA	ND	1	5	ng/dry g	
BHC-delta	NA	ND	1	5	ng/dry g	
BHC-gamma	NA	ND	1	5	ng/dry g	

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Chlordane-alpha	NA	ND	1	5	ng/dry g	
Chlordane-gamma	NA	ND	1	5	ng/dry g	
cis-Nonachlor	NA	ND	1	5	ng/dry g	
Dieldrin	NA	ND	1	5	ng/dry g	
Endosulfan sulfate	NA	ND	1	5	ng/dry g	
Endosulfan-I	NA	ND	1	5	ng/dry g	
Endosulfan-II	NA	ND	1	5	ng/dry g	
Endrin	NA	ND	1	5	ng/dry g	
Endrin aldehyde	NA	ND	1	5	ng/dry g	
Endrin ketone	NA	ND	1	5	ng/dry g	
Heptachlor	NA	ND	1	5	ng/dry g	
Heptachlor epoxide	NA	ND	1	5	ng/dry g	
Hexachlorobenzene	NA	ND	1	5	ng/dry g	
Methoxychlor	NA	ND	1	5	ng/dry g	
Mirex	NA	ND	1	5	ng/dry g	
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	
trans-Nonachlor	NA	ND	1	5	ng/dry g	

Sample ID: 29134-R1 **Little Rock Drainage Surface** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

(PCB030)	NA	92			% Recovery	
(PCB112)	NA	90			% Recovery	
(PCB198)	NA	107			% Recovery	
(TCMX)	NA	85			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/dry g	
2,4'-DDE	NA	ND	1	5	ng/dry g	
2,4'-DDT	NA	ND	1	5	ng/dry g	
4,4'-DDD	NA	ND	1	5	ng/dry g	
4,4'-DDE	NA	ND	1	5	ng/dry g	
4,4'-DDT	NA	ND	1	5	ng/dry g	
Aldrin	NA	ND	1	5	ng/dry g	
BHC-alpha	NA	ND	1	5	ng/dry g	

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ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
BHC-beta	NA	ND	1	5	ng/dry g	
BHC-delta	NA	ND	1	5	ng/dry g	
BHC-gamma	NA	ND	1	5	ng/dry g	
Chlordane-alpha	NA	ND	1	5	ng/dry g	
Chlordane-gamma	NA	ND	1	5	ng/dry g	
cis-Nonachlor	NA	ND	1	5	ng/dry g	
Dieldrin	NA	ND	1	5	ng/dry g	
Endosulfan sulfate	NA	ND	1	5	ng/dry g	
Endosulfan-I	NA	ND	1	5	ng/dry g	
Endosulfan-II	NA	ND	1	5	ng/dry g	
Endrin	NA	ND	1	5	ng/dry g	
Endrin aldehyde	NA	ND	1	5	ng/dry g	
Endrin ketone	NA	ND	1	5	ng/dry g	
Heptachlor	NA	ND	1	5	ng/dry g	
Heptachlor epoxide	NA	ND	1	5	ng/dry g	
Hexachlorobenzene	NA	ND	1	5	ng/dry g	
Methoxychlor	NA	ND	1	5	ng/dry g	
Mirex	NA	ND	1	5	ng/dry g	
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	
trans-Nonachlor	NA	ND	1	5	ng/dry g	

Sample ID: 29135-R1 **LR & Santiago Above Depth 1'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

(PCB030)	NA	92			% Recovery	
(PCB112)	NA	81			% Recovery	
(PCB198)	NA	99			% Recovery	
(TCMX)	NA	84			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/dry g	
2,4'-DDE	NA	ND	1	5	ng/dry g	
2,4'-DDT	NA	ND	1	5	ng/dry g	
4,4'-DDD	NA	ND	1	5	ng/dry g	
4,4'-DDE	NA	ND	1	5	ng/dry g	

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
4,4'-DDT	NA	ND	1	5	ng/dry g	
Aldrin	NA	ND	1	5	ng/dry g	
BHC-alpha	NA	ND	1	5	ng/dry g	
BHC-beta	NA	ND	1	5	ng/dry g	
BHC-delta	NA	ND	1	5	ng/dry g	
BHC-gamma	NA	ND	1	5	ng/dry g	
Chlordane-alpha	NA	ND	1	5	ng/dry g	
Chlordane-gamma	NA	ND	1	5	ng/dry g	
cis-Nonachlor	NA	ND	1	5	ng/dry g	
Dieldrin	NA	ND	1	5	ng/dry g	
Endosulfan sulfate	NA	ND	1	5	ng/dry g	
Endosulfan-I	NA	ND	1	5	ng/dry g	
Endosulfan-II	NA	ND	1	5	ng/dry g	
Endrin	NA	ND	1	5	ng/dry g	
Endrin aldehyde	NA	ND	1	5	ng/dry g	
Endrin ketone	NA	ND	1	5	ng/dry g	
Heptachlor	NA	ND	1	5	ng/dry g	
Heptachlor epoxide	NA	ND	1	5	ng/dry g	
Hexachlorobenzene	NA	ND	1	5	ng/dry g	
Methoxychlor	NA	ND	1	5	ng/dry g	
Mirex	NA	ND	1	5	ng/dry g	
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	
trans-Nonachlor	NA	ND	1	5	ng/dry g	

Sample ID: 29136-R1 **Waters Edge Surface** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

(PCB030)	NA	81			% Recovery	
(PCB112)	NA	77			% Recovery	
(PCB198)	NA	96			% Recovery	
(TCMX)	NA	80			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/dry g	
2,4'-DDE	NA	ND	1	5	ng/dry g	

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
2,4'-DDT	NA	ND	1	5	ng/dry g	
4,4'-DDD	NA	ND	1	5	ng/dry g	
4,4'-DDE	NA	ND	1	5	ng/dry g	
4,4'-DDT	NA	ND	1	5	ng/dry g	
Aldrin	NA	ND	1	5	ng/dry g	
BHC-alpha	NA	ND	1	5	ng/dry g	
BHC-beta	NA	ND	1	5	ng/dry g	
BHC-delta	NA	ND	1	5	ng/dry g	
BHC-gamma	NA	ND	1	5	ng/dry g	
Chlordane-alpha	NA	ND	1	5	ng/dry g	
Chlordane-gamma	NA	ND	1	5	ng/dry g	
cis-Nonachlor	NA	ND	1	5	ng/dry g	
Dieldrin	NA	ND	1	5	ng/dry g	
Endosulfan sulfate	NA	ND	1	5	ng/dry g	
Endosulfan-I	NA	ND	1	5	ng/dry g	
Endosulfan-II	NA	ND	1	5	ng/dry g	
Endrin	NA	ND	1	5	ng/dry g	
Endrin aldehyde	NA	ND	1	5	ng/dry g	
Endrin ketone	NA	ND	1	5	ng/dry g	
Heptachlor	NA	ND	1	5	ng/dry g	
Heptachlor epoxide	NA	ND	1	5	ng/dry g	
Hexachlorobenzene	NA	ND	1	5	ng/dry g	
Methoxychlor	NA	ND	1	5	ng/dry g	
Mirex	NA	ND	1	5	ng/dry g	
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	
trans-Nonachlor	NA	ND	1	5	ng/dry g	

Sample ID: 29137-R1 **Waters Edge Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

(PCB030)	NA	92	% Recovery
(PCB112)	NA	80	% Recovery
(PCB198)	NA	99	% Recovery

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
(TCMX)	NA	86			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/dry g	
2,4'-DDE	NA	ND	1	5	ng/dry g	
2,4'-DDT	NA	ND	1	5	ng/dry g	
4,4'-DDD	NA	ND	1	5	ng/dry g	
4,4'-DDE	NA	ND	1	5	ng/dry g	
4,4'-DDT	NA	ND	1	5	ng/dry g	
Aldrin	NA	ND	1	5	ng/dry g	
BHC-alpha	NA	ND	1	5	ng/dry g	
BHC-beta	NA	ND	1	5	ng/dry g	
BHC-delta	NA	ND	1	5	ng/dry g	
BHC-gamma	NA	ND	1	5	ng/dry g	
Chlordane-alpha	NA	ND	1	5	ng/dry g	
Chlordane-gamma	NA	ND	1	5	ng/dry g	
cis-Nonachlor	NA	ND	1	5	ng/dry g	
Dieldrin	NA	ND	1	5	ng/dry g	
Endosulfan sulfate	NA	ND	1	5	ng/dry g	
Endosulfan-I	NA	ND	1	5	ng/dry g	
Endosulfan-II	NA	ND	1	5	ng/dry g	
Endrin	NA	ND	1	5	ng/dry g	
Endrin aldehyde	NA	ND	1	5	ng/dry g	
Endrin ketone	NA	ND	1	5	ng/dry g	
Heptachlor	NA	ND	1	5	ng/dry g	
Heptachlor epoxide	NA	ND	1	5	ng/dry g	
Hexachlorobenzene	NA	ND	1	5	ng/dry g	
Methoxychlor	NA	ND	1	5	ng/dry g	
Mirex	NA	ND	1	5	ng/dry g	
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	
trans-Nonachlor	NA	ND	1	5	ng/dry g	

Sample ID: 29138-R1 **Below Dam Surface** Method: EPA 8270D
Matrix: Sediment Batch ID: O-6090
Sampled: 04-Aug-14 Prepared: 12-Sep-14
Received: 15-Aug-14 Analyzed: 01-Oct-14

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Chlorinated Pesticides ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
(PCB030)	NA	90			% Recovery	
(PCB112)	NA	75			% Recovery	
(PCB198)	NA	84			% Recovery	
(TCMX)	NA	89			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/dry g	
2,4'-DDE	NA	ND	1	5	ng/dry g	
2,4'-DDT	NA	ND	1	5	ng/dry g	
4,4'-DDD	NA	ND	1	5	ng/dry g	
4,4'-DDE	NA	ND	1	5	ng/dry g	
4,4'-DDT	NA	ND	1	5	ng/dry g	
Aldrin	NA	ND	1	5	ng/dry g	
BHC-alpha	NA	ND	1	5	ng/dry g	
BHC-beta	NA	ND	1	5	ng/dry g	
BHC-delta	NA	ND	1	5	ng/dry g	
BHC-gamma	NA	ND	1	5	ng/dry g	
Chlordane-alpha	NA	ND	1	5	ng/dry g	
Chlordane-gamma	NA	ND	1	5	ng/dry g	
cis-Nonachlor	NA	ND	1	5	ng/dry g	
Dieldrin	NA	ND	1	5	ng/dry g	
Endosulfan sulfate	NA	ND	1	5	ng/dry g	
Endosulfan-I	NA	ND	1	5	ng/dry g	
Endosulfan-II	NA	ND	1	5	ng/dry g	
Endrin	NA	ND	1	5	ng/dry g	
Endrin aldehyde	NA	ND	1	5	ng/dry g	
Endrin ketone	NA	ND	1	5	ng/dry g	
Heptachlor	NA	ND	1	5	ng/dry g	
Heptachlor epoxide	NA	ND	1	5	ng/dry g	
Hexachlorobenzene	NA	ND	1	5	ng/dry g	
Methoxychlor	NA	ND	1	5	ng/dry g	
Mirex	NA	ND	1	5	ng/dry g	
Oxychlordane	NA	ND	1	5	ng/dry g	
Perthane	NA	ND	5	10	ng/dry g	

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Chlorinated Pesticides ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
trans-Nonachlor	NA	ND	1	5	ng/dry g	

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Conventionals — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 29128-R1	**L.R. Rocky Pt. Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	99.8	0.1	0.1	% Dry Weight	
Sample ID: 29129-R1	**L.R. Rocky Pt. Depth 1'**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	99.8	0.1	0.1	% Dry Weight	
Sample ID: 29130-R1	**Boat Ramp Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	70.1	0.1	0.1	% Dry Weight	
Sample ID: 29131-R1	**Boat Ramp Depth 2'**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	62.4	0.1	0.1	% Dry Weight	
Sample ID: 29132-R1	**Fishermans Pt Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	96.3	0.1	0.1	% Dry Weight	
Sample ID: 29133-R1	**Fishermans Pt Depth 2'**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	98	0.1	0.1	% Dry Weight	
Sample ID: 29134-R1	**Little Rock Drainage Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	99.9	0.1	0.1	% Dry Weight	
Sample ID: 29135-R1	**LR & Santiago Above Depth 1'**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	99.8	0.1	0.1	% Dry Weight	
Sample ID: 29136-R1	**Waters Edge Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	57.5	0.1	0.1	% Dry Weight	

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Conventionals

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 29137-R1	**Waters Edge Depth 2'**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	91.1	0.1	0.1	% Dry Weight	
Sample ID: 29138-R1	**Below Dam Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22028		Prepared: 16-Sep-14		Analyzed: 16-Sep-14
Percent Solids	NA	99.1	0.1	0.1	% Dry Weight	

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Elements ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 29128-R1	**L.R. Rocky Pt. Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.0036	0.00001	0.00002	µg/dry g	
Sample ID: 29129-R1	**L.R. Rocky Pt. Depth 1'**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.0034	0.00001	0.00002	µg/dry g	
Sample ID: 29130-R1	**Boat Ramp Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.0154	0.00001	0.00002	µg/dry g	
Sample ID: 29131-R1	**Boat Ramp Depth 2'**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.0195	0.00001	0.00002	µg/dry g	
Sample ID: 29132-R1	**Fishermans Pt Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.0066	0.00001	0.00002	µg/dry g	
Sample ID: 29133-R1	**Fishermans Pt Depth 2'**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.0071	0.00001	0.00002	µg/dry g	
Sample ID: 29134-R1	**Little Rock Drainage Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.0032	0.00001	0.00002	µg/dry g	
Sample ID: 29135-R1	**LR & Santiago Above Depth 1'**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.0064	0.00001	0.00002	µg/dry g	
Sample ID: 29136-R1	**Waters Edge Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.0213	0.00001	0.00002	µg/dry g	

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Elements — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 29137-R1	**Waters Edge Depth 2'**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.0059	0.00001	0.00002	µg/dry g	
Sample ID: 29138-R1	**Below Dam Surface**	**Matrix: Sediment**		**Sampled: 04-Aug-14**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6082		Prepared: 15-Sep-14		Analyzed: 17-Sep-14
Mercury (Hg)	NA	0.011	0.00001	0.00002	µg/dry g	

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PCB Congeners — ANALYTICAL REPORT

Sample ID: 29128-R1 | **L.R. Rocky Pt. Surface** | **Matrix: Sediment** | **Sampled: 04-Aug-14** | **Received: 15-Aug-14**

Method: EPA 8270D | Batch ID: O-6090 | Prepared: 12-Sep-14 | Analyzed: 30-Sep-14

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	
PCB037	NA	ND	1	5	ng/dry g	
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	
PCB081	NA	ND	1	5	ng/dry g	
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	
PCB118	NA	ND	1	5	ng/dry g	
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	
PCB138	NA	ND	1	5	ng/dry g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	
PCB168+132	NA	ND	1	5	ng/dry g	
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	
PCB194	NA	ND	1	5	ng/dry g	
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	
PCB209	NA	ND	1	5	ng/dry g	

Sample ID: 29129-R1 **L.R. Rocky Pt. Depth 1'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	
PCB037	NA	ND	1	5	ng/dry g	

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PCB Congeners

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	
PCB081	NA	ND	1	5	ng/dry g	
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	
PCB118	NA	ND	1	5	ng/dry g	
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	
PCB138	NA	ND	1	5	ng/dry g	
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	
PCB168+132	NA	ND	1	5	ng/dry g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	
PCB194	NA	ND	1	5	ng/dry g	
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	
PCB209	NA	ND	1	5	ng/dry g	

Sample ID: 29130-R1 **Boat Ramp Surface** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	
PCB037	NA	ND	1	5	ng/dry g	
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	
PCB081	NA	ND	1	5	ng/dry g	

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PCB Congeners

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	
PCB118	NA	ND	1	5	ng/dry g	
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	
PCB138	NA	1.1	1	5	ng/dry g	J
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	
PCB168+132	NA	ND	1	5	ng/dry g	
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	
PCB194	NA	ND	1	5	ng/dry g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	
PCB209	NA	ND	1	5	ng/dry g	

Sample ID: 29131-R1 **Boat Ramp Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	
PCB037	NA	ND	1	5	ng/dry g	
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	
PCB081	NA	ND	1	5	ng/dry g	
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	
PCB118	NA	ND	1	5	ng/dry g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	
PCB138	NA	1.9	1	5	ng/dry g	J
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	
PCB168+132	NA	ND	1	5	ng/dry g	
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	
PCB194	NA	ND	1	5	ng/dry g	
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	
PCB209	NA	ND	1	5	ng/dry g	

Sample ID: 29132-R1 **Fishermans Pt Surface** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	

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PCB Congeners

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	
PCB037	NA	ND	1	5	ng/dry g	
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	
PCB081	NA	ND	1	5	ng/dry g	
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	
PCB118	NA	ND	1	5	ng/dry g	
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	
PCB138	NA	ND	1	5	ng/dry g	
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	
PCB168+132	NA	ND	1	5	ng/dry g	
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	
PCB194	NA	ND	1	5	ng/dry g	
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	
PCB209	NA	ND	1	5	ng/dry g	

Sample ID: 29133-R1 **Fishermans Pt Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	
PCB037	NA	ND	1	5	ng/dry g	
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	

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PCB Congeners

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	
PCB081	NA	ND	1	5	ng/dry g	
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	
PCB118	NA	ND	1	5	ng/dry g	
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	
PCB138	NA	ND	1	5	ng/dry g	
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	
PCB168+132	NA	ND	1	5	ng/dry g	
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	
PCB194	NA	ND	1	5	ng/dry g	
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	
PCB209	NA	ND	1	5	ng/dry g	

Sample ID: 29134-R1 **Little Rock Drainage Surface** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	
PCB037	NA	ND	1	5	ng/dry g	
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	
PCB081	NA	ND	1	5	ng/dry g	
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	

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PCB Congeners

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	
PCB118	NA	ND	1	5	ng/dry g	
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	
PCB138	NA	ND	1	5	ng/dry g	
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	
PCB168+132	NA	ND	1	5	ng/dry g	
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	
PCB194	NA	ND	1	5	ng/dry g	
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB209	NA	ND	1	5	ng/dry g	

Sample ID: 29135-R1 **LR & Santiago Above Depth 1'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	
PCB037	NA	ND	1	5	ng/dry g	
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	
PCB081	NA	ND	1	5	ng/dry g	
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	
PCB118	NA	ND	1	5	ng/dry g	
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB138	NA	ND	1	5	ng/dry g	
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	
PCB168+132	NA	ND	1	5	ng/dry g	
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	
PCB194	NA	ND	1	5	ng/dry g	
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	
PCB209	NA	ND	1	5	ng/dry g	

Sample ID: 29136-R1 **Waters Edge Surface** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	

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PCB Congeners

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB037	NA	ND	1	5	ng/dry g	
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	
PCB081	NA	ND	1	5	ng/dry g	
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	
PCB118	NA	ND	1	5	ng/dry g	
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	
PCB138	NA	1.5	1	5	ng/dry g	J
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	

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PCB Congeners

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB168+132	NA	ND	1	5	ng/dry g	
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	
PCB194	NA	ND	1	5	ng/dry g	
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	
PCB209	NA	ND	1	5	ng/dry g	

Sample ID: 29137-R1 **Waters Edge Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	
PCB037	NA	ND	1	5	ng/dry g	
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	

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PCB Congeners

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB081	NA	ND	1	5	ng/dry g	
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	
PCB118	NA	ND	1	5	ng/dry g	
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	
PCB138	NA	ND	1	5	ng/dry g	
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	
PCB168+132	NA	ND	1	5	ng/dry g	
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB194	NA	ND	1	5	ng/dry g	
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	
PCB209	NA	ND	1	5	ng/dry g	

Sample ID: 29138-R1 **Below Dam Surface** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 01-Oct-14

PCB003	NA	ND	1	5	ng/dry g	
PCB008	NA	ND	1	5	ng/dry g	
PCB018	NA	ND	1	5	ng/dry g	
PCB028	NA	ND	1	5	ng/dry g	
PCB031	NA	ND	1	5	ng/dry g	
PCB033	NA	ND	1	5	ng/dry g	
PCB037	NA	ND	1	5	ng/dry g	
PCB044	NA	ND	1	5	ng/dry g	
PCB049	NA	ND	1	5	ng/dry g	
PCB052	NA	ND	1	5	ng/dry g	
PCB056(060)	NA	ND	1	5	ng/dry g	
PCB066	NA	ND	1	5	ng/dry g	
PCB070	NA	ND	1	5	ng/dry g	
PCB074	NA	ND	1	5	ng/dry g	
PCB077	NA	ND	1	5	ng/dry g	
PCB081	NA	ND	1	5	ng/dry g	
PCB087	NA	ND	1	5	ng/dry g	
PCB095	NA	ND	1	5	ng/dry g	
PCB097	NA	ND	1	5	ng/dry g	
PCB099	NA	ND	1	5	ng/dry g	
PCB101	NA	ND	1	5	ng/dry g	
PCB105	NA	ND	1	5	ng/dry g	
PCB110	NA	ND	1	5	ng/dry g	
PCB114	NA	ND	1	5	ng/dry g	

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PCB Congeners ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB118	NA	ND	1	5	ng/dry g	
PCB119	NA	ND	1	5	ng/dry g	
PCB123	NA	ND	1	5	ng/dry g	
PCB126	NA	ND	1	5	ng/dry g	
PCB128	NA	ND	1	5	ng/dry g	
PCB138	NA	ND	1	5	ng/dry g	
PCB141	NA	ND	1	5	ng/dry g	
PCB149	NA	ND	1	5	ng/dry g	
PCB151	NA	ND	1	5	ng/dry g	
PCB153	NA	ND	1	5	ng/dry g	
PCB156	NA	ND	1	5	ng/dry g	
PCB157	NA	ND	1	5	ng/dry g	
PCB158	NA	ND	1	5	ng/dry g	
PCB167	NA	ND	1	5	ng/dry g	
PCB168+132	NA	ND	1	5	ng/dry g	
PCB169	NA	ND	1	5	ng/dry g	
PCB170	NA	ND	1	5	ng/dry g	
PCB174	NA	ND	1	5	ng/dry g	
PCB177	NA	ND	1	5	ng/dry g	
PCB180	NA	ND	1	5	ng/dry g	
PCB183	NA	ND	1	5	ng/dry g	
PCB187	NA	ND	1	5	ng/dry g	
PCB189	NA	ND	1	5	ng/dry g	
PCB194	NA	ND	1	5	ng/dry g	
PCB195	NA	ND	1	5	ng/dry g	
PCB199(200)	NA	ND	1	5	ng/dry g	
PCB201	NA	ND	1	5	ng/dry g	
PCB206	NA	ND	1	5	ng/dry g	
PCB209	NA	ND	1	5	ng/dry g	

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 29121-R1	**Bass 1 whole bass**	**Matrix: Tissue**		**Sampled: 04-Aug-14 15:30**		**Received: 15-Aug-14**
	Method: EPA 8270D	Batch ID: O-6100		Prepared: 29-Sep-14		Analyzed: 07-Oct-14
(PCB030)	NA	112			% Recovery	
(PCB112)	NA	120			% Recovery	
(PCB198)	NA	94			% Recovery	
(TCMX)	NA	127			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/wet g	
2,4'-DDE	NA	ND	1	5	ng/wet g	
2,4'-DDT	NA	42.5	1	5	ng/wet g	
4,4'-DDD	NA	10.4	1	5	ng/wet g	
4,4'-DDE	NA	14.4	1	5	ng/wet g	
4,4'-DDT	NA	14	1	5	ng/wet g	
Aldrin	NA	ND	1	5	ng/wet g	
BHC-alpha	NA	ND	1	5	ng/wet g	
BHC-beta	NA	ND	1	5	ng/wet g	
BHC-delta	NA	ND	1	5	ng/wet g	
BHC-gamma	NA	ND	1	5	ng/wet g	
Chlordane-alpha	NA	1.9	1	5	ng/wet g	J
Chlordane-gamma	NA	1.2	1	5	ng/wet g	J
cis-Nonachlor	NA	1.1	1	5	ng/wet g	J
Dieldrin	NA	ND	1	5	ng/wet g	
Endosulfan sulfate	NA	ND	1	5	ng/wet g	
Endosulfan-I	NA	ND	1	5	ng/wet g	
Endosulfan-II	NA	ND	1	5	ng/wet g	
Endrin	NA	ND	1	5	ng/wet g	
Endrin aldehyde	NA	ND	1	5	ng/wet g	
Endrin ketone	NA	ND	1	5	ng/wet g	
Heptachlor	NA	ND	1	5	ng/wet g	
Heptachlor epoxide	NA	ND	1	5	ng/wet g	
Hexachlorobenzene	NA	ND	1	5	ng/wet g	
Methoxychlor	NA	ND	1	5	ng/wet g	
Mirex	NA	ND	1	5	ng/wet g	

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Oxychlordane	NA	ND	1	5	ng/wet g	
Perthane	NA	ND	5	10	ng/wet g	
trans-Nonachlor	NA	4.4	1	5	ng/wet g	J

Sample ID: 29122-R1 **Bass 2 whole bass** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 07-Oct-14

(PCB030)	NA	110			% Recovery	
(PCB112)	NA	112			% Recovery	
(PCB198)	NA	127			% Recovery	
(TCMX)	NA	127			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/wet g	
2,4'-DDE	NA	ND	1	5	ng/wet g	
2,4'-DDT	NA	40.2	1	5	ng/wet g	
4,4'-DDD	NA	11.8	1	5	ng/wet g	
4,4'-DDE	NA	13.5	1	5	ng/wet g	
4,4'-DDT	NA	15.4	1	5	ng/wet g	
Aldrin	NA	ND	1	5	ng/wet g	
BHC-alpha	NA	ND	1	5	ng/wet g	
BHC-beta	NA	ND	1	5	ng/wet g	
BHC-delta	NA	ND	1	5	ng/wet g	
BHC-gamma	NA	ND	1	5	ng/wet g	
Chlordane-alpha	NA	4.2	1	5	ng/wet g	J
Chlordane-gamma	NA	1.5	1	5	ng/wet g	J
cis-Nonachlor	NA	1.4	1	5	ng/wet g	J
Dieldrin	NA	ND	1	5	ng/wet g	
Endosulfan sulfate	NA	ND	1	5	ng/wet g	
Endosulfan-I	NA	ND	1	5	ng/wet g	
Endosulfan-II	NA	ND	1	5	ng/wet g	
Endrin	NA	ND	1	5	ng/wet g	
Endrin aldehyde	NA	ND	1	5	ng/wet g	
Endrin ketone	NA	ND	1	5	ng/wet g	
Heptachlor	NA	ND	1	5	ng/wet g	
Heptachlor epoxide	NA	ND	1	5	ng/wet g	

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Hexachlorobenzene	NA	ND	1	5	ng/wet g	
Methoxychlor	NA	ND	1	5	ng/wet g	
Mirex	NA	ND	1	5	ng/wet g	
Oxychlordane	NA	ND	1	5	ng/wet g	
Perthane	NA	ND	5	10	ng/wet g	
trans-Nonachlor	NA	4.1	1	5	ng/wet g	J

Sample ID: 29123-R1 **goldfish whole fish** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 07-Oct-14

(PCB030)	NA	55			% Recovery	
(PCB112)	NA	88			% Recovery	
(PCB198)	NA	126			% Recovery	
(TCMX)	NA	54			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/wet g	
2,4'-DDE	NA	ND	1	5	ng/wet g	
2,4'-DDT	NA	146.2	1	5	ng/wet g	
4,4'-DDD	NA	33.4	1	5	ng/wet g	
4,4'-DDE	NA	54.7	1	5	ng/wet g	
4,4'-DDT	NA	230.9	1	5	ng/wet g	
Aldrin	NA	ND	1	5	ng/wet g	
BHC-alpha	NA	ND	1	5	ng/wet g	
BHC-beta	NA	ND	1	5	ng/wet g	
BHC-delta	NA	ND	1	5	ng/wet g	
BHC-gamma	NA	ND	1	5	ng/wet g	
Chlordane-alpha	NA	11.4	1	5	ng/wet g	
Chlordane-gamma	NA	6.2	1	5	ng/wet g	
cis-Nonachlor	NA	4.4	1	5	ng/wet g	J
Dieldrin	NA	ND	1	5	ng/wet g	
Endosulfan sulfate	NA	ND	1	5	ng/wet g	
Endosulfan-I	NA	ND	1	5	ng/wet g	
Endosulfan-II	NA	ND	1	5	ng/wet g	
Endrin	NA	ND	1	5	ng/wet g	
Endrin aldehyde	NA	ND	1	5	ng/wet g	

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Chlorinated Pesticides — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Endrin ketone	NA	ND	1	5	ng/wet g	
Heptachlor	NA	ND	1	5	ng/wet g	
Heptachlor epoxide	NA	ND	1	5	ng/wet g	
Hexachlorobenzene	NA	2.5	1	5	ng/wet g	J
Methoxychlor	NA	ND	1	5	ng/wet g	
Mirex	NA	ND	1	5	ng/wet g	
Oxychlordane	NA	ND	1	5	ng/wet g	
Perthane	NA	ND	5	10	ng/wet g	
trans-Nonachlor	NA	17	1	5	ng/wet g	

Sample ID: 29124-R1 **white catfish whole fish whole fish** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 07-Oct-14

(PCB030)	NA	109			% Recovery	
(PCB112)	NA	115			% Recovery	
(PCB198)	NA	95			% Recovery	
(TCMX)	NA	126			% Recovery	
2,4'-DDD	NA	ND	1	5	ng/wet g	
2,4'-DDE	NA	ND	1	5	ng/wet g	
2,4'-DDT	NA	27.2	1	5	ng/wet g	
4,4'-DDD	NA	10.1	1	5	ng/wet g	
4,4'-DDE	NA	18.5	1	5	ng/wet g	
4,4'-DDT	NA	16.8	1	5	ng/wet g	
Aldrin	NA	ND	1	5	ng/wet g	
BHC-alpha	NA	ND	1	5	ng/wet g	
BHC-beta	NA	ND	1	5	ng/wet g	
BHC-delta	NA	ND	1	5	ng/wet g	
BHC-gamma	NA	ND	1	5	ng/wet g	
Chlordane-alpha	NA	3.1	1	5	ng/wet g	J
Chlordane-gamma	NA	2.2	1	5	ng/wet g	J
cis-Nonachlor	NA	2.2	1	5	ng/wet g	J
Dieldrin	NA	ND	1	5	ng/wet g	
Endosulfan sulfate	NA	ND	1	5	ng/wet g	
Endosulfan-I	NA	ND	1	5	ng/wet g	

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Chlorinated Pesticides ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Endosulfan-II	NA	ND	1	5	ng/wet g	
Endrin	NA	ND	1	5	ng/wet g	
Endrin aldehyde	NA	ND	1	5	ng/wet g	
Endrin ketone	NA	ND	1	5	ng/wet g	
Heptachlor	NA	ND	1	5	ng/wet g	
Heptachlor epoxide	NA	ND	1	5	ng/wet g	
Hexachlorobenzene	NA	ND	1	5	ng/wet g	
Methoxychlor	NA	ND	1	5	ng/wet g	
Mirex	NA	ND	1	5	ng/wet g	
Oxychlordane	NA	ND	1	5	ng/wet g	
Perthane	NA	ND	5	10	ng/wet g	
trans-Nonachlor	NA	4.1	1	5	ng/wet g	J

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Conventionals — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 29121-R1	**Bass 1 whole bass**	**Matrix: Tissue**		**Sampled: 04-Aug-14 15:30**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22032		Prepared: 29-Sep-14		Analyzed: 29-Sep-14
Percent Solids	NA	30.8	0.1	0.1	% Dry Weight	
	Method: Gravimetric	Batch ID: C-22033		Prepared: 30-Sep-14		Analyzed: 30-Sep-14
Percent Lipids	NA	10	0.01	0.05	% Wet Weight	
Sample ID: 29122-R1	**Bass 2 whole bass**	**Matrix: Tissue**		**Sampled: 04-Aug-14 15:30**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22032		Prepared: 29-Sep-14		Analyzed: 29-Sep-14
Percent Solids	NA	32	0.1	0.1	% Dry Weight	
	Method: Gravimetric	Batch ID: C-22033		Prepared: 30-Sep-14		Analyzed: 30-Sep-14
Percent Lipids	NA	13.7	0.01	0.05	% Wet Weight	
Sample ID: 29123-R1	**goldfish whole fish**	**Matrix: Tissue**		**Sampled: 04-Aug-14 15:30**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22032		Prepared: 29-Sep-14		Analyzed: 29-Sep-14
Percent Solids	NA	44.3	0.1	0.1	% Dry Weight	
	Method: Gravimetric	Batch ID: C-22033		Prepared: 30-Sep-14		Analyzed: 30-Sep-14
Percent Lipids	NA	27.5	0.01	0.05	% Wet Weight	
Sample ID: 29124-R1	**white catfish whole fish whole fish**	**Matrix: Tissue**		**Sampled: 04-Aug-14 15:30**		**Received: 15-Aug-14**
	Method: SM 2540 B	Batch ID: C-22032		Prepared: 29-Sep-14		Analyzed: 29-Sep-14
Percent Solids	NA	23.1	0.1	0.1	% Dry Weight	
	Method: Gravimetric	Batch ID: C-22033		Prepared: 30-Sep-14		Analyzed: 30-Sep-14
Percent Lipids	NA	4.99	0.01	0.05	% Wet Weight	

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Elements

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 29121-R1	**Bass 1 whole bass**	**Matrix: Tissue**		**Sampled: 04-Aug-14 15:30**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6088		Prepared: 07-Oct-14		Analyzed: 08-Oct-14
Mercury (Hg)	NA	0.5348	0.00001	0.00002	µg/wet g	
Sample ID: 29122-R1	**Bass 2 whole bass**	**Matrix: Tissue**		**Sampled: 04-Aug-14 15:30**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6088		Prepared: 07-Oct-14		Analyzed: 08-Oct-14
Mercury (Hg)	NA	0.6601	0.00001	0.00002	µg/wet g	
Sample ID: 29123-R1	**goldfish whole fish**	**Matrix: Tissue**		**Sampled: 04-Aug-14 15:30**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6088		Prepared: 07-Oct-14		Analyzed: 08-Oct-14
Mercury (Hg)	NA	0.3644	0.00001	0.00002	µg/wet g	
Sample ID: 29124-R1	**white catfish whole fish whole fish**	**Matrix: Tissue**		**Sampled: 04-Aug-14 15:30**		**Received: 15-Aug-14**
	Method: EPA 245.7	Batch ID: E-6088		Prepared: 07-Oct-14		Analyzed: 08-Oct-14
Mercury (Hg)	NA	0.4033	0.00001	0.00002	µg/wet g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
Sample ID: 29121-R1	**Bass 1 whole bass**	**Matrix: Tissue**		**Sampled: 04-Aug-14 15:30**		**Received: 15-Aug-14**
	Method: EPA 8270D	Batch ID: O-6100		Prepared: 29-Sep-14		Analyzed: 07-Oct-14
PCB003	NA	ND	1	5	ng/wet g	
PCB008	NA	ND	1	5	ng/wet g	
PCB018	NA	ND	1	5	ng/wet g	
PCB028	NA	1.1	1	5	ng/wet g	J
PCB031	NA	ND	1	5	ng/wet g	
PCB033	NA	ND	1	5	ng/wet g	
PCB037	NA	ND	1	5	ng/wet g	
PCB044	NA	ND	1	5	ng/wet g	
PCB049	NA	ND	1	5	ng/wet g	
PCB052	NA	ND	1	5	ng/wet g	
PCB056(060)	NA	ND	1	5	ng/wet g	
PCB066	NA	ND	1	5	ng/wet g	
PCB070	NA	4.5	1	5	ng/wet g	J
PCB074	NA	1.2	1	5	ng/wet g	J
PCB077	NA	ND	1	5	ng/wet g	
PCB081	NA	ND	1	5	ng/wet g	
PCB087	NA	ND	1	5	ng/wet g	
PCB095	NA	1.3	1	5	ng/wet g	J
PCB097	NA	ND	1	5	ng/wet g	
PCB099	NA	ND	1	5	ng/wet g	
PCB101	NA	1.8	1	5	ng/wet g	J
PCB105	NA	ND	1	5	ng/wet g	
PCB110	NA	1.3	1	5	ng/wet g	J
PCB114	NA	1.5	1	5	ng/wet g	J
PCB118	NA	1	1	5	ng/wet g	J
PCB119	NA	ND	1	5	ng/wet g	
PCB123	NA	ND	1	5	ng/wet g	
PCB126	NA	ND	1	5	ng/wet g	
PCB128	NA	ND	1	5	ng/wet g	
PCB138	NA	5.1	1	5	ng/wet g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB141	NA	ND	1	5	ng/wet g	
PCB149	NA	1.3	1	5	ng/wet g	J
PCB151	NA	ND	1	5	ng/wet g	
PCB153	NA	4.6	1	5	ng/wet g	J
PCB156	NA	ND	1	5	ng/wet g	
PCB157	NA	ND	1	5	ng/wet g	
PCB158	NA	ND	1	5	ng/wet g	
PCB167	NA	ND	1	5	ng/wet g	
PCB168+132	NA	ND	1	5	ng/wet g	
PCB169	NA	ND	1	5	ng/wet g	
PCB170	NA	2.8	1	5	ng/wet g	J
PCB174	NA	ND	1	5	ng/wet g	
PCB177	NA	ND	1	5	ng/wet g	
PCB180	NA	2.9	1	5	ng/wet g	J
PCB183	NA	ND	1	5	ng/wet g	
PCB187	NA	2	1	5	ng/wet g	J
PCB189	NA	ND	1	5	ng/wet g	
PCB194	NA	ND	1	5	ng/wet g	
PCB195	NA	ND	1	5	ng/wet g	
PCB199(200)	NA	ND	1	5	ng/wet g	
PCB201	NA	ND	1	5	ng/wet g	
PCB206	NA	ND	1	5	ng/wet g	
PCB209	NA	ND	1	5	ng/wet g	

Sample ID: 29122-R1 **Bass 2 whole bass** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 07-Oct-14

PCB003	NA	ND	1	5	ng/wet g	
PCB008	NA	ND	1	5	ng/wet g	
PCB018	NA	ND	1	5	ng/wet g	
PCB028	NA	ND	1	5	ng/wet g	
PCB031	NA	ND	1	5	ng/wet g	
PCB033	NA	ND	1	5	ng/wet g	
PCB037	NA	ND	1	5	ng/wet g	

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PCB Congeners

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB044	NA	ND	1	5	ng/wet g	
PCB049	NA	ND	1	5	ng/wet g	
PCB052	NA	1.7	1	5	ng/wet g	J
PCB056(060)	NA	ND	1	5	ng/wet g	
PCB066	NA	ND	1	5	ng/wet g	
PCB070	NA	ND	1	5	ng/wet g	
PCB074	NA	ND	1	5	ng/wet g	
PCB077	NA	ND	1	5	ng/wet g	
PCB081	NA	ND	1	5	ng/wet g	
PCB087	NA	ND	1	5	ng/wet g	
PCB095	NA	1	1	5	ng/wet g	J
PCB097	NA	ND	1	5	ng/wet g	
PCB099	NA	ND	1	5	ng/wet g	
PCB101	NA	1.4	1	5	ng/wet g	J
PCB105	NA	ND	1	5	ng/wet g	
PCB110	NA	1.1	1	5	ng/wet g	J
PCB114	NA	1.3	1	5	ng/wet g	J
PCB118	NA	ND	1	5	ng/wet g	
PCB119	NA	ND	1	5	ng/wet g	
PCB123	NA	ND	1	5	ng/wet g	
PCB126	NA	ND	1	5	ng/wet g	
PCB128	NA	ND	1	5	ng/wet g	
PCB138	NA	4.2	1	5	ng/wet g	J
PCB141	NA	ND	1	5	ng/wet g	
PCB149	NA	ND	1	5	ng/wet g	
PCB151	NA	ND	1	5	ng/wet g	
PCB153	NA	4.8	1	5	ng/wet g	J
PCB156	NA	ND	1	5	ng/wet g	
PCB157	NA	ND	1	5	ng/wet g	
PCB158	NA	ND	1	5	ng/wet g	
PCB167	NA	ND	1	5	ng/wet g	
PCB168+132	NA	ND	1	5	ng/wet g	

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PCB Congeners — ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB169	NA	ND	1	5	ng/wet g	
PCB170	NA	ND	1	5	ng/wet g	
PCB174	NA	ND	1	5	ng/wet g	
PCB177	NA	1.5	1	5	ng/wet g	J
PCB180	NA	4.5	1	5	ng/wet g	J
PCB183	NA	1.8	1	5	ng/wet g	J
PCB187	NA	1.9	1	5	ng/wet g	J
PCB189	NA	ND	1	5	ng/wet g	
PCB194	NA	ND	1	5	ng/wet g	
PCB195	NA	ND	1	5	ng/wet g	
PCB199(200)	NA	ND	1	5	ng/wet g	
PCB201	NA	ND	1	5	ng/wet g	
PCB206	NA	ND	1	5	ng/wet g	
PCB209	NA	ND	1	5	ng/wet g	

Sample ID: 29123-R1 **goldfish whole fish** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 07-Oct-14

PCB003	NA	ND	1	5	ng/wet g	
PCB008	NA	ND	1	5	ng/wet g	
PCB018	NA	ND	1	5	ng/wet g	
PCB028	NA	3.7	1	5	ng/wet g	J
PCB031	NA	ND	1	5	ng/wet g	
PCB033	NA	ND	1	5	ng/wet g	
PCB037	NA	ND	1	5	ng/wet g	
PCB044	NA	ND	1	5	ng/wet g	
PCB049	NA	ND	1	5	ng/wet g	
PCB052	NA	1.6	1	5	ng/wet g	J
PCB056(060)	NA	ND	1	5	ng/wet g	
PCB066	NA	ND	1	5	ng/wet g	
PCB070	NA	ND	1	5	ng/wet g	
PCB074	NA	ND	1	5	ng/wet g	
PCB077	NA	ND	1	5	ng/wet g	
PCB081	NA	ND	1	5	ng/wet g	

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PCB Congeners ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB087	NA	ND	1	5	ng/wet g	
PCB095	NA	2.8	1	5	ng/wet g	J
PCB097	NA	ND	1	5	ng/wet g	
PCB099	NA	ND	1	5	ng/wet g	
PCB101	NA	2.2	1	5	ng/wet g	J
PCB105	NA	ND	1	5	ng/wet g	
PCB110	NA	2	1	5	ng/wet g	J
PCB114	NA	ND	1	5	ng/wet g	
PCB118	NA	12.4	1	5	ng/wet g	
PCB119	NA	ND	1	5	ng/wet g	
PCB123	NA	ND	1	5	ng/wet g	
PCB126	NA	ND	1	5	ng/wet g	
PCB128	NA	ND	1	5	ng/wet g	
PCB138	NA	32.9	1	5	ng/wet g	
PCB141	NA	4.4	1	5	ng/wet g	J
PCB149	NA	3.7	1	5	ng/wet g	J
PCB151	NA	ND	1	5	ng/wet g	
PCB153	NA	34.1	1	5	ng/wet g	
PCB156	NA	ND	1	5	ng/wet g	
PCB157	NA	ND	1	5	ng/wet g	
PCB158	NA	7.3	1	5	ng/wet g	
PCB167	NA	ND	1	5	ng/wet g	
PCB168+132	NA	5.6	1	5	ng/wet g	
PCB169	NA	ND	1	5	ng/wet g	
PCB170	NA	ND	1	5	ng/wet g	
PCB174	NA	ND	1	5	ng/wet g	
PCB177	NA	9.9	1	5	ng/wet g	
PCB180	NA	14.8	1	5	ng/wet g	
PCB183	NA	11.5	1	5	ng/wet g	
PCB187	NA	18.1	1	5	ng/wet g	
PCB189	NA	ND	1	5	ng/wet g	
PCB194	NA	ND	1	5	ng/wet g	

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PCB Congeners ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB195	NA	ND	1	5	ng/wet g	
PCB199(200)	NA	ND	1	5	ng/wet g	
PCB201	NA	ND	1	5	ng/wet g	
PCB206	NA	ND	1	5	ng/wet g	
PCB209	NA	ND	1	5	ng/wet g	

Sample ID: 29124-R1 **white catfish whole fish whole fish** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 07-Oct-14

PCB003	NA	ND	1	5	ng/wet g	
PCB008	NA	ND	1	5	ng/wet g	
PCB018	NA	ND	1	5	ng/wet g	
PCB028	NA	1.8	1	5	ng/wet g	J
PCB031	NA	ND	1	5	ng/wet g	
PCB033	NA	ND	1	5	ng/wet g	
PCB037	NA	ND	1	5	ng/wet g	
PCB044	NA	ND	1	5	ng/wet g	
PCB049	NA	ND	1	5	ng/wet g	
PCB052	NA	ND	1	5	ng/wet g	
PCB056(060)	NA	ND	1	5	ng/wet g	
PCB066	NA	ND	1	5	ng/wet g	
PCB070	NA	ND	1	5	ng/wet g	
PCB074	NA	ND	1	5	ng/wet g	
PCB077	NA	ND	1	5	ng/wet g	
PCB081	NA	ND	1	5	ng/wet g	
PCB087	NA	ND	1	5	ng/wet g	
PCB095	NA	ND	1	5	ng/wet g	
PCB097	NA	ND	1	5	ng/wet g	
PCB099	NA	ND	1	5	ng/wet g	
PCB101	NA	1.4	1	5	ng/wet g	J
PCB105	NA	ND	1	5	ng/wet g	
PCB110	NA	ND	1	5	ng/wet g	
PCB114	NA	2.6	1	5	ng/wet g	J
PCB118	NA	1.3	1	5	ng/wet g	J

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PCB Congeners

ANALYTICAL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	QA CODE
PCB119	NA	ND	1	5	ng/wet g	
PCB123	NA	ND	1	5	ng/wet g	
PCB126	NA	ND	1	5	ng/wet g	
PCB128	NA	ND	1	5	ng/wet g	
PCB138	NA	4.8	1	5	ng/wet g	J
PCB141	NA	1.1	1	5	ng/wet g	J
PCB149	NA	1.1	1	5	ng/wet g	J
PCB151	NA	ND	1	5	ng/wet g	
PCB153	NA	4.6	1	5	ng/wet g	J
PCB156	NA	ND	1	5	ng/wet g	
PCB157	NA	ND	1	5	ng/wet g	
PCB158	NA	1.3	1	5	ng/wet g	J
PCB167	NA	ND	1	5	ng/wet g	
PCB168+132	NA	ND	1	5	ng/wet g	
PCB169	NA	ND	1	5	ng/wet g	
PCB170	NA	ND	1	5	ng/wet g	
PCB174	NA	1.5	1	5	ng/wet g	J
PCB177	NA	2.2	1	5	ng/wet g	J
PCB180	NA	4.3	1	5	ng/wet g	J
PCB183	NA	1	1	5	ng/wet g	J
PCB187	NA	2.7	1	5	ng/wet g	J
PCB189	NA	ND	1	5	ng/wet g	
PCB194	NA	ND	1	5	ng/wet g	
PCB195	NA	ND	1	5	ng/wet g	
PCB199(200)	NA	ND	1	5	ng/wet g	
PCB201	NA	ND	1	5	ng/wet g	
PCB206	NA	ND	1	5	ng/wet g	
PCB209	NA	ND	1	5	ng/wet g	

QUALITY CONTROL REPORT

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Conventionals QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Percent Lipids			**Method: Gravimetric**			**Fraction: NA**		**Prepared: 30-Sep-14**			**Analyzed: 30-Sep-14**		
29118-B1	QAQC Procedural Blank	C-22033	ND	0.01	0.05	% Wet Weight							
29121-R2	Bass 1	C-22033	12.4	0.01	0.05	% Wet Weight					21	30	PASS
Percent Solids			**Method: SM 2540 B**			**Fraction: NA**		**Prepared: 16-Sep-14**			**Analyzed: 16-Sep-14**		
29125-B1	QAQC Procedural Blank	C-22028	ND	0.1	0.1	% Dry Weight							
29128-R2	L.R. Rocky Pt.	C-22028	99.8	0.1	0.1	% Dry Weight					0	30	PASS
29118-B1	QAQC Procedural Blank	C-22032	ND	0.1	0.1	% Dry Weight							
29124-R2	white catfish whole fish	C-22032	23	0.1	0.1	% Dry Weight					0	30	PASS

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Chlorinated Pesticides QUALITY CONTROL REPORT

Sample ID: 29118-B1 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**

Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 06-Oct-14

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
(PCB030)	NA	76			% Recovery	100		76	50 - 150%	PASS		
(PCB112)	NA	74			% Recovery	100		74	50 - 150%	PASS		
(PCB198)	NA	115			% Recovery	100		115	30 - 130%	PASS		
(TCMX)	NA	73			% Recovery	100		73	50 - 150%	PASS		
2,4'-DDD	NA	ND	1	5	ng/wet g							
2,4'-DDE	NA	ND	1	5	ng/wet g							
2,4'-DDT	NA	ND	1	5	ng/wet g							
4,4'-DDD	NA	ND	1	5	ng/wet g							
4,4'-DDE	NA	ND	1	5	ng/wet g							
4,4'-DDT	NA	ND	1	5	ng/wet g							
Aldrin	NA	ND	1	5	ng/wet g							
BHC-alpha	NA	ND	1	5	ng/wet g							
BHC-beta	NA	ND	1	5	ng/wet g							
BHC-delta	NA	ND	1	5	ng/wet g							
BHC-gamma	NA	ND	1	5	ng/wet g							
Chlordane-alpha	NA	ND	1	5	ng/wet g							
Chlordane-gamma	NA	ND	1	5	ng/wet g							
cis-Nonachlor	NA	ND	1	5	ng/wet g							
Dieldrin	NA	ND	1	5	ng/wet g							
Endosulfan sulfate	NA	ND	1	5	ng/wet g							
Endosulfan-I	NA	ND	1	5	ng/wet g							
Endosulfan-II	NA	ND	1	5	ng/wet g							
Endrin	NA	ND	1	5	ng/wet g							
Endrin aldehyde	NA	ND	1	5	ng/wet g							
Endrin ketone	NA	ND	1	5	ng/wet g							
Heptachlor	NA	ND	1	5	ng/wet g							
Heptachlor epoxide	NA	ND	1	5	ng/wet g							
Hexachlorobenzene	NA	ND	1	5	ng/wet g							
Methoxychlor	NA	ND	1	5	ng/wet g							

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Mirex	NA	ND	1	5	ng/wet g							
Oxychlordane	NA	ND	1	5	ng/wet g							
Perthane	NA	ND	5	10	ng/wet g							
trans-Nonachlor	NA	ND	1	5	ng/wet g							

Sample ID: 29118-BS1 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**

Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 06-Oct-14

(PCB030)	NA	74			% Recovery	100	0	74	50 - 150%	PASS		
(PCB112)	NA	77			% Recovery	100	0	77	50 - 150%	PASS		
(PCB198)	NA	122			% Recovery	100	0	122	30 - 130%	PASS		
(TCMX)	NA	73			% Recovery	100	0	73	50 - 150%	PASS		
2,4'-DDD	NA	357.4	1	5	ng/wet g	500	0	71	50 - 150%	PASS		
2,4'-DDE	NA	372.7	1	5	ng/wet g	500	0	75	50 - 150%	PASS		
2,4'-DDT	NA	375.3	1	5	ng/wet g	500	0	75	50 - 150%	PASS		
4,4'-DDD	NA	449.7	1	5	ng/wet g	500	0	90	50 - 150%	PASS		
4,4'-DDE	NA	389.3	1	5	ng/wet g	500	0	78	50 - 150%	PASS		
4,4'-DDT	NA	395	1	5	ng/wet g	500	0	79	50 - 150%	PASS		
Aldrin	NA	410.6	1	5	ng/wet g	500	0	82	50 - 150%	PASS		
BHC-alpha	NA	370.5	1	5	ng/wet g	500	0	74	50 - 150%	PASS		
BHC-beta	NA	473.2	1	5	ng/wet g	500	0	95	50 - 150%	PASS		
BHC-delta	NA	427.9	1	5	ng/wet g	500	0	86	50 - 150%	PASS		
BHC-gamma	NA	300.1	1	5	ng/wet g	500	0	60	50 - 150%	PASS		
Chlordane-alpha	NA	377.5	1	5	ng/wet g	500	0	75	50 - 150%	PASS		
Chlordane-gamma	NA	346.6	1	5	ng/wet g	500	0	69	50 - 150%	PASS		
cis-Nonachlor	NA	456.9	1	5	ng/wet g	500	0	91	50 - 150%	PASS		
Dieldrin	NA	417.2	1	5	ng/wet g	500	0	83	50 - 150%	PASS		
Endosulfan sulfate	NA	482.2	1	5	ng/wet g	500	0	96	50 - 150%	PASS		
Endosulfan-I	NA	382.9	1	5	ng/wet g	500	0	77	50 - 150%	PASS		
Endosulfan-II	NA	531.9	1	5	ng/wet g	500	0	106	50 - 150%	PASS		
Endrin	NA	452.8	1	5	ng/wet g	500	0	91	25 - 125%	PASS		
Endrin aldehyde	NA	269	1	5	ng/wet g	500	0	54	0 - 125%	PASS		
Endrin ketone	NA	493.5	1	5	ng/wet g	500	0	99	25 - 125%	PASS		

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor	NA	536.7	1	5	ng/wet g	500	0	107	50 - 150%	PASS			
Heptachlor epoxide	NA	508.2	1	5	ng/wet g	500	0	102	50 - 150%	PASS			
Hexachlorobenzene	NA	383.3	1	5	ng/wet g	500	0	77	50 - 150%	PASS			
Methoxychlor	NA	548.5	1	5	ng/wet g	500	0	110	50 - 150%	PASS			
Mirex	NA	558.1	1	5	ng/wet g	500	0	112	50 - 150%	PASS			
Oxychlordane	NA	432.2	1	5	ng/wet g	500	0	86	50 - 150%	PASS			
Perthane	NA	355.2	5	10	ng/wet g	500	0	71	50 - 150%	PASS			
trans-Nonachlor	NA	353.8	1	5	ng/wet g	500	0	71	50 - 150%	PASS			

Sample ID: 29118-BS2 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**

Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 06-Oct-14

(PCB030)	NA	74			% Recovery	100	0	74	50 - 150%	PASS	0	30	PASS
(PCB112)	NA	71			% Recovery	100	0	71	50 - 150%	PASS	8	30	PASS
(PCB198)	NA	121			% Recovery	100	0	121	30 - 130%	PASS	1	30	PASS
(TCMX)	NA	74			% Recovery	100	0	74	50 - 150%	PASS	1	30	PASS
2,4'-DDD	NA	330.2	1	5	ng/wet g	500	0	66	50 - 150%	PASS	7	30	PASS
2,4'-DDE	NA	337.8	1	5	ng/wet g	500	0	68	50 - 150%	PASS	10	30	PASS
2,4'-DDT	NA	356.8	1	5	ng/wet g	500	0	71	50 - 150%	PASS	5	30	PASS
4,4'-DDD	NA	415.2	1	5	ng/wet g	500	0	83	50 - 150%	PASS	8	30	PASS
4,4'-DDE	NA	365.5	1	5	ng/wet g	500	0	73	50 - 150%	PASS	7	30	PASS
4,4'-DDT	NA	501.6	1	5	ng/wet g	500	0	100	50 - 150%	PASS	23	30	PASS
Aldrin	NA	428.5	1	5	ng/wet g	500	0	86	50 - 150%	PASS	5	30	PASS
BHC-alpha	NA	385.7	1	5	ng/wet g	500	0	77	50 - 150%	PASS	4	30	PASS
BHC-beta	NA	494.6	1	5	ng/wet g	500	0	99	50 - 150%	PASS	4	30	PASS
BHC-delta	NA	445.5	1	5	ng/wet g	500	0	89	50 - 150%	PASS	3	30	PASS
BHC-gamma	NA	331.8	1	5	ng/wet g	500	0	66	50 - 150%	PASS	10	30	PASS
Chlordane-alpha	NA	345.7	1	5	ng/wet g	500	0	69	50 - 150%	PASS	10	30	PASS
Chlordane-gamma	NA	317.4	1	5	ng/wet g	500	0	63	50 - 150%	PASS	9	30	PASS
cis-Nonachlor	NA	461.3	1	5	ng/wet g	500	0	92	50 - 150%	PASS	1	30	PASS
Dieldrin	NA	378.4	1	5	ng/wet g	500	0	76	50 - 150%	PASS	9	30	PASS
Endosulfan sulfate	NA	483.5	1	5	ng/wet g	500	0	97	50 - 150%	PASS	1	30	PASS
Endosulfan-I	NA	416.7	1	5	ng/wet g	500	0	83	50 - 150%	PASS	8	30	PASS

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Endosulfan-II	NA	548.9	1	5	ng/wet g	500	0	110	50 - 150%	PASS	4	30	PASS	
Endrin	NA	451	1	5	ng/wet g	500	0	90	25 - 125%	PASS	1	30	PASS	
Endrin aldehyde	NA	344.6	1	5	ng/wet g	500	0	69	0 - 125%	PASS	24	30	PASS	
Endrin ketone	NA	548.4	1	5	ng/wet g	500	0	110	25 - 125%	PASS	11	30	PASS	
Heptachlor	NA	592.1	1	5	ng/wet g	500	0	118	50 - 150%	PASS	10	30	PASS	
Heptachlor epoxide	NA	488.8	1	5	ng/wet g	500	0	98	50 - 150%	PASS	4	30	PASS	
Hexachlorobenzene	NA	403.2	1	5	ng/wet g	500	0	81	50 - 150%	PASS	5	30	PASS	
Methoxychlor	NA	683.1	1	5	ng/wet g	500	0	137	50 - 150%	PASS	22	30	PASS	
Mirex	NA	616	1	5	ng/wet g	500	0	123	50 - 150%	PASS	9	30	PASS	
Oxychlordane	NA	456.2	1	5	ng/wet g	500	0	91	50 - 150%	PASS	6	30	PASS	
Perthane	NA	335.9	5	10	ng/wet g	500	0	67	50 - 150%	PASS	6	30	PASS	
trans-Nonachlor	NA	332.5	1	5	ng/wet g	500	0	67	50 - 150%	PASS	7	30	PASS	

Sample ID: 29121-MS1 **Bass 1 whole bass** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 06-Oct-14

(PCB030)	NA	112			% Recovery	100	0	112	50 - 150%	PASS				
(PCB112)	NA	126			% Recovery	100	0	126	50 - 150%	PASS				
(PCB198)	NA	130			% Recovery	100	0	130	30 - 130%	PASS				
(TCMX)	NA	117			% Recovery	100	0	117	50 - 150%	PASS				
2,4'-DDD	NA	116.7	1	5	ng/wet g	96.6	0	121	50 - 150%	PASS				
2,4'-DDE	NA	108.5	1	5	ng/wet g	96.6	0	112	50 - 150%	PASS				
2,4'-DDT	NA	169.2	1	5	ng/wet g	96.6	35	139	50 - 150%	PASS				
4,4'-DDD	NA	122.6	1	5	ng/wet g	96.6	8.8	118	50 - 150%	PASS				
4,4'-DDE	NA	135.2	1	5	ng/wet g	96.6	15.4	124	50 - 150%	PASS				
4,4'-DDT	NA	178.5	1	5	ng/wet g	96.6	11.2	173	50 - 150%	FAIL				M
Aldrin	NA	100	1	5	ng/wet g	96.6	0	104	50 - 150%	PASS				
BHC-alpha	NA	115.3	1	5	ng/wet g	96.6	0	119	50 - 150%	PASS				
BHC-beta	NA	121.4	1	5	ng/wet g	96.6	0	126	50 - 150%	PASS				
BHC-delta	NA	97.7	1	5	ng/wet g	96.6	0	101	50 - 150%	PASS				
BHC-gamma	NA	101.2	1	5	ng/wet g	96.6	0	105	50 - 150%	PASS				
Chlordane-alpha	NA	124.6	1	5	ng/wet g	96.6	1.9	127	50 - 150%	PASS				
Chlordane-gamma	NA	125.8	1	5	ng/wet g	96.6	0.6	130	50 - 150%	PASS				

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
cis-Nonachlor	NA	137.2	1	5	ng/wet g	96.6	1.1	141	50 - 150%	PASS				
Dieldrin	NA	98	1	5	ng/wet g	96.6	0	101	50 - 150%	PASS				
Endosulfan sulfate	NA	140.4	1	5	ng/wet g	96.6	0	145	50 - 150%	PASS				
Endosulfan-I	NA	127.9	1	5	ng/wet g	96.6	0	132	50 - 150%	PASS				
Endosulfan-II	NA	213.7	1	5	ng/wet g	96.6	0	221	50 - 150%	FAIL				VI
Endrin	NA	103.6	1	5	ng/wet g	96.6	0	107	25 - 125%	PASS				
Endrin aldehyde	NA	103.7	1	5	ng/wet g	96.6	0	107	0 - 125%	PASS				
Endrin ketone	NA	132	1	5	ng/wet g	96.6	0	115	25 - 125%	PASS				
Heptachlor	NA	158.4	1	5	ng/wet g	96.6	0	164	50 - 150%	FAIL				VI
Heptachlor epoxide	NA	124.9	1	5	ng/wet g	96.6	0	129	50 - 150%	PASS				
Hexachlorobenzene	NA	112	1	5	ng/wet g	96.6	0.5	115	50 - 150%	PASS				
Methoxychlor	NA	236.4	1	5	ng/wet g	96.6	0	245	50 - 150%	FAIL				VI
Mirex	NA	160.5	1	5	ng/wet g	96.6	0	166	50 - 150%	FAIL				VI
Oxychlordane	NA	120	1	5	ng/wet g	96.6	0	124	50 - 150%	PASS				
Perthane	NA	117.9	5	10	ng/wet g	96.6	0	122	50 - 150%	PASS				
trans-Nonachlor	NA	129.6	1	5	ng/wet g	96.6	5	129	50 - 150%	PASS				

Sample ID: 29121-MS2 **Bass 1 whole bass** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 07-Oct-14

(PCB030)	NA	113			% Recovery	100	0	113	50 - 150%	PASS	1	30	PASS	
(PCB112)	NA	107			% Recovery	100	0	107	50 - 150%	PASS	16	30	PASS	
(PCB198)	NA	107			% Recovery	100	0	107	30 - 130%	PASS	19	30	PASS	
(TCMX)	NA	131			% Recovery	100	0	131	50 - 150%	PASS	11	30	PASS	
2,4'-DDD	NA	100.9	1	5	ng/wet g	99.6	0	101	50 - 150%	PASS	18	30	PASS	
2,4'-DDE	NA	110.6	1	5	ng/wet g	99.6	0	111	50 - 150%	PASS	1	30	PASS	
2,4'-DDT	NA	80.2	1	5	ng/wet g	99.6	35	45	50 - 150%	FAIL	102	30	FAIL	VI
4,4'-DDD	NA	61.3	1	5	ng/wet g	99.6	8.8	53	50 - 150%	PASS	76	30	FAIL	M
4,4'-DDE	NA	109.5	1	5	ng/wet g	99.6	15.4	94	50 - 150%	PASS	28	30	PASS	
4,4'-DDT	NA	120	1	5	ng/wet g	99.6	11.2	109	50 - 150%	PASS	45	30	FAIL	M
Aldrin	NA	102.9	1	5	ng/wet g	99.6	0	103	50 - 150%	PASS	1	30	PASS	
BHC-alpha	NA	109.5	1	5	ng/wet g	99.6	0	110	50 - 150%	PASS	8	30	PASS	
BHC-beta	NA	76.7	1	5	ng/wet g	99.6	0	77	50 - 150%	PASS	48	30	FAIL	M

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ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
BHC-delta	NA	79.6	1	5	ng/wet g	99.6	0	80	50 - 150%	PASS	23	30	PASS	
BHC-gamma	NA	74.2	1	5	ng/wet g	99.6	0	74	50 - 150%	PASS	35	30	FAIL	M
Chlordane-alpha	NA	100.8	1	5	ng/wet g	99.6	1.9	99	50 - 150%	PASS	25	30	PASS	
Chlordane-gamma	NA	89.4	1	5	ng/wet g	99.6	0.6	89	50 - 150%	PASS	37	30	FAIL	M
cis-Nonachlor	NA	93.2	1	5	ng/wet g	99.6	1.1	92	50 - 150%	PASS	42	30	FAIL	M
Dieldrin	NA	73.3	1	5	ng/wet g	99.6	0	74	50 - 150%	PASS	31	30	FAIL	M
Endosulfan sulfate	NA	106.4	1	5	ng/wet g	99.6	0	107	50 - 150%	PASS	30	30	PASS	
Endosulfan-I	NA	72.2	1	5	ng/wet g	99.6	0	72	50 - 150%	PASS	59	30	FAIL	M
Endosulfan-II	NA	125.8	1	5	ng/wet g	99.6	0	126	50 - 150%	PASS	55	30	FAIL	M
Endrin	NA	84.1	1	5	ng/wet g	99.6	0	84	25 - 125%	PASS	24	30	PASS	
Endrin aldehyde	NA	78.1	1	5	ng/wet g	99.6	0	78	0 - 125%	PASS	31	30	FAIL	M
Endrin ketone	NA	72.6	1	5	ng/wet g	99.6	0	52	25 - 125%	PASS	75	30	FAIL	M
Heptachlor	NA	84.5	1	5	ng/wet g	99.6	0	85	50 - 150%	PASS	63	30	FAIL	M
Heptachlor epoxide	NA	100.9	1	5	ng/wet g	99.6	0	101	50 - 150%	PASS	24	30	PASS	
Hexachlorobenzene	NA	117.5	1	5	ng/wet g	99.6	0.5	117	50 - 150%	PASS	2	30	PASS	
Methoxychlor	NA	118.1	1	5	ng/wet g	99.6	0	119	50 - 150%	PASS	69	30	FAIL	M
Mirex	NA	108	1	5	ng/wet g	99.6	0	108	50 - 150%	PASS	42	30	FAIL	M
Oxychlordane	NA	75.5	1	5	ng/wet g	99.6	0	76	50 - 150%	PASS	48	30	FAIL	M
Perthane	NA	97.9	5	10	ng/wet g	99.6	0	98	50 - 150%	PASS	22	30	PASS	
trans-Nonachlor	NA	99.5	1	5	ng/wet g	99.6	5	95	50 - 150%	PASS	30	30	PASS	

Sample ID: 29121-R2 **Bass 1 whole bass** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 07-Oct-14

(PCB030)	NA	91			% Recovery	100		91	50 - 150%	PASS	21	30	PASS	
(PCB112)	NA	95			% Recovery	100		95	50 - 150%	PASS	23	30	PASS	
(PCB198)	NA	98			% Recovery	100		98	30 - 130%	PASS	4	30	PASS	
(TCMX)	NA	103			% Recovery	100		103	50 - 150%	PASS	21	30	PASS	
2,4'-DDD	NA	ND	1	5	ng/wet g						0	30	PASS	
2,4'-DDE	NA	ND	1	5	ng/wet g						0	30	PASS	
2,4'-DDT	NA	27.4	1	5	ng/wet g						43	30	FAIL	NH
4,4'-DDD	NA	7.3	1	5	ng/wet g						35	30	FAIL	SL
4,4'-DDE	NA	16.5	1	5	ng/wet g						14	30	PASS	

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ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
4,4'-DDT	NA	8.4	1	5	ng/wet g					50	30	FAIL	SL
Aldrin	NA	ND	1	5	ng/wet g					0	30	PASS	
BHC-alpha	NA	ND	1	5	ng/wet g					0	30	PASS	
BHC-beta	NA	ND	1	5	ng/wet g					0	30	PASS	
BHC-delta	NA	ND	1	5	ng/wet g					0	30	PASS	
BHC-gamma	NA	ND	1	5	ng/wet g					0	30	PASS	
Chlordane-alpha	NA	1.9	1	5	ng/wet g					0	30	PASS	J
Chlordane-gamma	NA	ND	1	5	ng/wet g					18	30	PASS	
cis-Nonachlor	NA	1.2	1	5	ng/wet g					9	30	PASS	J
Dieldrin	NA	ND	1	5	ng/wet g					0	30	PASS	
Endosulfan sulfate	NA	ND	1	5	ng/wet g					0	30	PASS	
Endosulfan-I	NA	ND	1	5	ng/wet g					0	30	PASS	
Endosulfan-II	NA	ND	1	5	ng/wet g					0	30	PASS	
Endrin	NA	ND	1	5	ng/wet g					0	30	PASS	
Endrin aldehyde	NA	ND	1	5	ng/wet g					0	30	PASS	
Endrin ketone	NA	ND	1	5	ng/wet g					0	30	PASS	
Heptachlor	NA	ND	1	5	ng/wet g					0	30	PASS	
Heptachlor epoxide	NA	ND	1	5	ng/wet g					0	30	PASS	
Hexachlorobenzene	NA	1.1	1	5	ng/wet g					10	30	PASS	J
Methoxychlor	NA	ND	1	5	ng/wet g					0	30	PASS	
Mirex	NA	ND	1	5	ng/wet g					0	30	PASS	
Oxychlordane	NA	ND	1	5	ng/wet g					0	30	PASS	
Perthane	NA	ND	5	10	ng/wet g					0	30	PASS	
trans-Nonachlor	NA	5.7	1	5	ng/wet g					26	30	PASS	

Sample ID: 29125-B1 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	74			% Recovery	100	74	50 - 150%	PASS		
(PCB112)	NA	73			% Recovery	100	73	50 - 150%	PASS		
(PCB198)	NA	84			% Recovery	100	84	50 - 150%	PASS		
(TCMX)	NA	61			% Recovery	100	61	50 - 150%	PASS		
2,4'-DDD	NA	ND	1	5	ng/dry g						

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
2,4'-DDE	NA	ND	1	5	ng/dry g							
2,4'-DDT	NA	ND	1	5	ng/dry g							
4,4'-DDD	NA	ND	1	5	ng/dry g							
4,4'-DDE	NA	ND	1	5	ng/dry g							
4,4'-DDT	NA	ND	1	5	ng/dry g							
Aldrin	NA	ND	1	5	ng/dry g							
BHC-alpha	NA	ND	1	5	ng/dry g							
BHC-beta	NA	ND	1	5	ng/dry g							
BHC-delta	NA	ND	1	5	ng/dry g							
BHC-gamma	NA	ND	1	5	ng/dry g							
Chlordane-alpha	NA	ND	1	5	ng/dry g							
Chlordane-gamma	NA	ND	1	5	ng/dry g							
cis-Nonachlor	NA	ND	1	5	ng/dry g							
Dieldrin	NA	ND	1	5	ng/dry g							
Endosulfan sulfate	NA	ND	1	5	ng/dry g							
Endosulfan-I	NA	ND	1	5	ng/dry g							
Endosulfan-II	NA	ND	1	5	ng/dry g							
Endrin	NA	ND	1	5	ng/dry g							
Endrin aldehyde	NA	ND	1	5	ng/dry g							
Endrin ketone	NA	ND	1	5	ng/dry g							
Heptachlor	NA	ND	1	5	ng/dry g							
Heptachlor epoxide	NA	ND	1	5	ng/dry g							
Hexachlorobenzene	NA	ND	1	5	ng/dry g							
Methoxychlor	NA	ND	1	5	ng/dry g							
Mirex	NA	ND	1	5	ng/dry g							
Oxychlordane	NA	ND	1	5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	1	5	ng/dry g							

Sample ID: 29125-BS1 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	90	% Recovery	100	0	90	50 - 150%	PASS	

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
(PCB112)	NA	82			% Recovery	100	0	82	50 - 150%	PASS			
(PCB198)	NA	100			% Recovery	100	0	100	50 - 150%	PASS			
(TCMX)	NA	89			% Recovery	100	0	89	50 - 150%	PASS			
2,4'-DDD	NA	389.4	1	5	ng/dry g	500	0	78	50 - 150%	PASS			
2,4'-DDE	NA	393.4	1	5	ng/dry g	500	0	79	50 - 150%	PASS			
2,4'-DDT	NA	358	1	5	ng/dry g	500	0	72	50 - 150%	PASS			
4,4'-DDD	NA	409	1	5	ng/dry g	500	0	82	50 - 150%	PASS			
4,4'-DDE	NA	458.1	1	5	ng/dry g	500	0	92	50 - 150%	PASS			
4,4'-DDT	NA	406.3	1	5	ng/dry g	500	0	81	50 - 150%	PASS			
Aldrin	NA	510.9	1	5	ng/dry g	500	0	102	50 - 150%	PASS			
BHC-alpha	NA	430.6	1	5	ng/dry g	500	0	86	50 - 150%	PASS			
BHC-beta	NA	500.6	1	5	ng/dry g	500	0	100	50 - 150%	PASS			
BHC-delta	NA	398.5	1	5	ng/dry g	500	0	80	50 - 150%	PASS			
BHC-gamma	NA	472	1	5	ng/dry g	500	0	94	50 - 150%	PASS			
Chlordane-alpha	NA	441.2	1	5	ng/dry g	500	0	88	50 - 150%	PASS			
Chlordane-gamma	NA	444.1	1	5	ng/dry g	500	0	89	50 - 150%	PASS			
cis-Nonachlor	NA	502.6	1	5	ng/dry g	500	0	101	50 - 150%	PASS			
Dieldrin	NA	442.7	1	5	ng/dry g	500	0	89	50 - 150%	PASS			
Endosulfan sulfate	NA	409.7	1	5	ng/dry g	500	0	82	50 - 150%	PASS			
Endosulfan-I	NA	337.6	1	5	ng/dry g	500	0	68	50 - 150%	PASS			
Endosulfan-II	NA	342.7	1	5	ng/dry g	500	0	69	50 - 150%	PASS			
Endrin	NA	431.9	1	5	ng/dry g	500	0	86	25 - 125%	PASS			
Endrin aldehyde	NA	64.8	1	5	ng/dry g	500	0	13	0 - 125%	PASS			
Endrin ketone	NA	430.8	1	5	ng/dry g	500	0	86	25 - 125%	PASS			
Heptachlor	NA	417.8	1	5	ng/dry g	500	0	84	50 - 150%	PASS			
Heptachlor epoxide	NA	519	1	5	ng/dry g	500	0	104	50 - 150%	PASS			
Hexachlorobenzene	NA	1492.8	1	5	ng/dry g	1500	0	100	50 - 150%	PASS			
Methoxychlor	NA	432.7	1	5	ng/dry g	500	0	87	50 - 150%	PASS			
Mirex	NA	418.2	1	5	ng/dry g	500	0	84	50 - 150%	PASS			
Oxychlordane	NA	451.4	1	5	ng/dry g	500	0	90	50 - 150%	PASS			
Perthane	NA	403.6	5	10	ng/dry g	500	0	81	50 - 150%	PASS			

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
trans-Nonachlor	NA	498.7	1	5	ng/dry g	500	0	100	50 - 150%	PASS				

Sample ID: 29125-BS2 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	96			% Recovery	100	0	96	50 - 150%	PASS	6	30	PASS	
(PCB112)	NA	88			% Recovery	100	0	88	50 - 150%	PASS	7	30	PASS	
(PCB198)	NA	112			% Recovery	100	0	112	50 - 150%	PASS	11	30	PASS	
(TCMX)	NA	94			% Recovery	100	0	94	50 - 150%	PASS	5	30	PASS	
2,4'-DDD	NA	392.9	1	5	ng/dry g	500	0	79	50 - 150%	PASS	1	30	PASS	
2,4'-DDE	NA	400.9	1	5	ng/dry g	500	0	80	50 - 150%	PASS	1	30	PASS	
2,4'-DDT	NA	355.8	1	5	ng/dry g	500	0	71	50 - 150%	PASS	1	30	PASS	
4,4'-DDD	NA	407.3	1	5	ng/dry g	500	0	81	50 - 150%	PASS	1	30	PASS	
4,4'-DDE	NA	470.2	1	5	ng/dry g	500	0	94	50 - 150%	PASS	2	30	PASS	
4,4'-DDT	NA	386.6	1	5	ng/dry g	500	0	77	50 - 150%	PASS	5	30	PASS	
Aldrin	NA	523.5	1	5	ng/dry g	500	0	105	50 - 150%	PASS	3	30	PASS	
BHC-alpha	NA	421.2	1	5	ng/dry g	500	0	84	50 - 150%	PASS	2	30	PASS	
BHC-beta	NA	471.2	1	5	ng/dry g	500	0	94	50 - 150%	PASS	6	30	PASS	
BHC-delta	NA	407.5	1	5	ng/dry g	500	0	81	50 - 150%	PASS	2	30	PASS	
BHC-gamma	NA	474.4	1	5	ng/dry g	500	0	95	50 - 150%	PASS	1	30	PASS	
Chlordane-alpha	NA	438.4	1	5	ng/dry g	500	0	88	50 - 150%	PASS	0	30	PASS	
Chlordane-gamma	NA	463.3	1	5	ng/dry g	500	0	93	50 - 150%	PASS	4	30	PASS	
cis-Nonachlor	NA	487.2	1	5	ng/dry g	500	0	97	50 - 150%	PASS	4	30	PASS	
Dieldrin	NA	423.7	1	5	ng/dry g	500	0	85	50 - 150%	PASS	5	30	PASS	
Endosulfan sulfate	NA	412.5	1	5	ng/dry g	500	0	82	50 - 150%	PASS	0	30	PASS	
Endosulfan-I	NA	343.4	1	5	ng/dry g	500	0	69	50 - 150%	PASS	1	30	PASS	
Endosulfan-II	NA	395.3	1	5	ng/dry g	500	0	79	50 - 150%	PASS	14	30	PASS	
Endrin	NA	429.6	1	5	ng/dry g	500	0	86	25 - 125%	PASS	0	30	PASS	
Endrin aldehyde	NA	52.5	1	5	ng/dry g	500	0	10	0 - 125%	PASS	26	30	PASS	
Endrin ketone	NA	435	1	5	ng/dry g	500	0	87	25 - 125%	PASS	1	30	PASS	
Heptachlor	NA	406.1	1	5	ng/dry g	500	0	81	50 - 150%	PASS	4	30	PASS	
Heptachlor epoxide	NA	510.3	1	5	ng/dry g	500	0	102	50 - 150%	PASS	2	30	PASS	
Hexachlorobenzene	NA	1503.1	1	5	ng/dry g	1500	0	100	50 - 150%	PASS	0	30	PASS	

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Methoxychlor	NA	414.9	1	5	ng/dry g	500	0	83	50 - 150%	PASS	5	30	PASS	
Mirex	NA	433.5	1	5	ng/dry g	500	0	87	50 - 150%	PASS	4	30	PASS	
Oxychlordane	NA	442.1	1	5	ng/dry g	500	0	88	50 - 150%	PASS	2	30	PASS	
Perthane	NA	398.8	5	10	ng/dry g	500	0	80	50 - 150%	PASS	1	30	PASS	
trans-Nonachlor	NA	481.1	1	5	ng/dry g	500	0	96	50 - 150%	PASS	4	30	PASS	

Sample ID: 29131-MS1 **Boat Ramp Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	87			% Recovery	100	0	87	50 - 150%	PASS				
(PCB112)	NA	81			% Recovery	100	0	81	50 - 150%	PASS				
(PCB198)	NA	96			% Recovery	100	0	96	50 - 150%	PASS				
(TCMX)	NA	80			% Recovery	100	0	80	50 - 150%	PASS				
2,4'-DDD	NA	48.1	1	5	ng/dry g	61.1	0	79	50 - 150%	PASS				
2,4'-DDE	NA	48	1	5	ng/dry g	61.1	0	79	50 - 150%	PASS				
2,4'-DDT	NA	23.9	1	5	ng/dry g	61.1	0	39	50 - 150%	FAIL				M
4,4'-DDD	NA	48.9	1	5	ng/dry g	61.1	0	80	50 - 150%	PASS				
4,4'-DDE	NA	50.5	1	5	ng/dry g	61.1	0	83	50 - 150%	PASS				
4,4'-DDT	NA	22.1	1	5	ng/dry g	61.1	0	36	50 - 150%	FAIL				M
Aldrin	NA	42.8	1	5	ng/dry g	61.1	0	70	50 - 150%	PASS				
BHC-alpha	NA	48.3	1	5	ng/dry g	61.1	0	79	50 - 150%	PASS				
BHC-beta	NA	50.4	1	5	ng/dry g	61.1	0	82	50 - 150%	PASS				
BHC-delta	NA	47.1	1	5	ng/dry g	61.1	0	77	50 - 150%	PASS				
BHC-gamma	NA	50.1	1	5	ng/dry g	61.1	0	82	50 - 150%	PASS				
Chlordane-alpha	NA	52.3	1	5	ng/dry g	61.1	0	86	50 - 150%	PASS				
Chlordane-gamma	NA	51.1	1	5	ng/dry g	61.1	0	84	50 - 150%	PASS				
cis-Nonachlor	NA	56.9	1	5	ng/dry g	61.1	0	93	50 - 150%	PASS				
Dieldrin	NA	35.4	1	5	ng/dry g	61.1	0	58	50 - 150%	PASS				
Endosulfan sulfate	NA	50.1	1	5	ng/dry g	61.1	0	82	50 - 150%	PASS				
Endosulfan-I	NA	31	1	5	ng/dry g	61.1	0	51	50 - 150%	PASS				
Endosulfan-II	NA	43.2	1	5	ng/dry g	61.1	0	71	50 - 150%	PASS				
Endrin	NA	35.3	1	5	ng/dry g	61.1	0	58	25 - 125%	PASS				
Endrin aldehyde	NA	12.8	1	5	ng/dry g	61.1	0	21	0 - 125%	PASS				

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Endrin ketone	NA	39.3	1	5	ng/dry g	61.1	0	64	25 - 125%	PASS				
Heptachlor	NA	41.4	1	5	ng/dry g	61.1	0	68	50 - 150%	PASS				
Heptachlor epoxide	NA	63.5	1	5	ng/dry g	61.1	0	104	50 - 150%	PASS				
Hexachlorobenzene	NA	52.2	1	5	ng/dry g	61.1	0	85	50 - 150%	PASS				
Methoxychlor	NA	28.2	1	5	ng/dry g	61.1	0	46	50 - 150%	FAIL				VI
Mirex	NA	40.5	1	5	ng/dry g	61.1	0	66	50 - 150%	PASS				
Oxychlordane	NA	51.8	1	5	ng/dry g	61.1	0	85	50 - 150%	PASS				
Perthane	NA	52	5	10	ng/dry g	61.1	0	85	50 - 150%	PASS				
trans-Nonachlor	NA	58.2	1	5	ng/dry g	61.1	0	95	50 - 150%	PASS				

Sample ID: 29131-MS2 **Boat Ramp Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	93			% Recovery	100	0	93	50 - 150%	PASS	7	30	PASS	
(PCB112)	NA	80			% Recovery	100	0	80	50 - 150%	PASS	1	30	PASS	
(PCB198)	NA	92			% Recovery	100	0	92	50 - 150%	PASS	4	30	PASS	
(TCMX)	NA	87			% Recovery	100	0	87	50 - 150%	PASS	8	30	PASS	
2,4'-DDD	NA	26.9	1	5	ng/dry g	34.4	0	78	50 - 150%	PASS	1	30	PASS	
2,4'-DDE	NA	26.4	1	5	ng/dry g	34.4	0	77	50 - 150%	PASS	3	30	PASS	
2,4'-DDT	NA	17.4	1	5	ng/dry g	34.4	0	51	50 - 150%	PASS	27	30	PASS	
4,4'-DDD	NA	28.4	1	5	ng/dry g	34.4	0	83	50 - 150%	PASS	4	30	PASS	
4,4'-DDE	NA	27.4	1	5	ng/dry g	34.4	0	80	50 - 150%	PASS	4	30	PASS	
4,4'-DDT	NA	16.9	1	5	ng/dry g	34.4	0	49	50 - 150%	FAIL	31	30	FAIL	VI
Aldrin	NA	24	1	5	ng/dry g	34.4	0	70	50 - 150%	PASS	0	30	PASS	
BHC-alpha	NA	28.9	1	5	ng/dry g	34.4	0	84	50 - 150%	PASS	6	30	PASS	
BHC-beta	NA	26.2	1	5	ng/dry g	34.4	0	76	50 - 150%	PASS	8	30	PASS	
BHC-delta	NA	27.4	1	5	ng/dry g	34.4	0	80	50 - 150%	PASS	4	30	PASS	
BHC-gamma	NA	29.8	1	5	ng/dry g	34.4	0	87	50 - 150%	PASS	6	30	PASS	
Chlordane-alpha	NA	29.7	1	5	ng/dry g	34.4	0	86	50 - 150%	PASS	0	30	PASS	
Chlordane-gamma	NA	29.9	1	5	ng/dry g	34.4	0	87	50 - 150%	PASS	4	30	PASS	
cis-Nonachlor	NA	31.5	1	5	ng/dry g	34.4	0	92	50 - 150%	PASS	1	30	PASS	
Dieldrin	NA	19.5	1	5	ng/dry g	34.4	0	57	50 - 150%	PASS	2	30	PASS	
Endosulfan sulfate	NA	24.7	1	5	ng/dry g	34.4	0	72	50 - 150%	PASS	13	30	PASS	

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Endosulfan-I	NA	21.1	1	5	ng/dry g	34.4	0	61	50 - 150%	PASS	18	30	PASS	
Endosulfan-II	NA	27.6	1	5	ng/dry g	34.4	0	80	50 - 150%	PASS	12	30	PASS	
Endrin	NA	27.1	1	5	ng/dry g	34.4	0	79	25 - 125%	PASS	31	30	FAIL	R
Endrin aldehyde	NA	7.4	1	5	ng/dry g	34.4	0	22	0 - 125%	PASS	5	30	PASS	
Endrin ketone	NA	26.9	1	5	ng/dry g	34.4	0	78	25 - 125%	PASS	20	30	PASS	
Heptachlor	NA	23.8	1	5	ng/dry g	34.4	0	69	50 - 150%	PASS	1	30	PASS	
Heptachlor epoxide	NA	37.7	1	5	ng/dry g	34.4	0	110	50 - 150%	PASS	6	30	PASS	
Hexachlorobenzene	NA	32.2	1	5	ng/dry g	34.4	0	94	50 - 150%	PASS	10	30	PASS	
Methoxychlor	NA	20.8	1	5	ng/dry g	34.4	0	60	50 - 150%	PASS	26	30	PASS	
Mirex	NA	20.9	1	5	ng/dry g	34.4	0	61	50 - 150%	PASS	8	30	PASS	
Oxychlordane	NA	30.9	1	5	ng/dry g	34.4	0	90	50 - 150%	PASS	6	30	PASS	
Perthane	NA	29.3	5	10	ng/dry g	34.4	0	85	50 - 150%	PASS	0	30	PASS	
trans-Nonachlor	NA	33.3	1	5	ng/dry g	34.4	0	97	50 - 150%	PASS	2	30	PASS	

Sample ID: 29131-R2 **Boat Ramp Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

(PCB030)	NA	90			% Recovery	100		90	50 - 150%	PASS	6	30	PASS	
(PCB112)	NA	81			% Recovery	100		81	50 - 150%	PASS	4	30	PASS	
(PCB198)	NA	91			% Recovery	100		91	50 - 150%	PASS	6	30	PASS	
(TCMX)	NA	87			% Recovery	100		87	50 - 150%	PASS	8	30	PASS	
2,4'-DDD	NA	ND	1	5	ng/dry g						0	30	PASS	
2,4'-DDE	NA	ND	1	5	ng/dry g						0	30	PASS	
2,4'-DDT	NA	ND	1	5	ng/dry g						0	30	PASS	
4,4'-DDD	NA	ND	1	5	ng/dry g						0	30	PASS	
4,4'-DDE	NA	ND	1	5	ng/dry g						0	30	PASS	
4,4'-DDT	NA	ND	1	5	ng/dry g						0	30	PASS	
Aldrin	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-alpha	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-beta	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-delta	NA	ND	1	5	ng/dry g						0	30	PASS	
BHC-gamma	NA	ND	1	5	ng/dry g						0	30	PASS	
Chlordane-alpha	NA	ND	1	5	ng/dry g						0	30	PASS	

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Chlorinated Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Chlordane-gamma	NA	ND	1	5	ng/dry g						0	30	PASS	
cis-Nonachlor	NA	ND	1	5	ng/dry g						0	30	PASS	
Dieldrin	NA	ND	1	5	ng/dry g						0	30	PASS	
Endosulfan sulfate	NA	ND	1	5	ng/dry g						0	30	PASS	
Endosulfan-I	NA	ND	1	5	ng/dry g						0	30	PASS	
Endosulfan-II	NA	ND	1	5	ng/dry g						0	30	PASS	
Endrin	NA	ND	1	5	ng/dry g						0	30	PASS	
Endrin aldehyde	NA	ND	1	5	ng/dry g						0	30	PASS	
Endrin ketone	NA	ND	1	5	ng/dry g						0	30	PASS	
Heptachlor	NA	ND	1	5	ng/dry g						0	30	PASS	
Heptachlor epoxide	NA	ND	1	5	ng/dry g						0	30	PASS	
Hexachlorobenzene	NA	ND	1	5	ng/dry g						0	30	PASS	
Methoxychlor	NA	ND	1	5	ng/dry g						0	30	PASS	
Mirex	NA	ND	1	5	ng/dry g						0	30	PASS	
Oxychlordane	NA	ND	1	5	ng/dry g						0	30	PASS	
Perthane	NA	ND	5	10	ng/dry g						0	30	PASS	
trans-Nonachlor	NA	ND	1	5	ng/dry g						0	30	PASS	

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Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 29118-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-6088			Prepared: 07-Oct-14			Analyzed: 08-Oct-14		
Mercury (Hg)	NA	ND	0.00001	0.00002	µg/wet g								
Sample ID: 29118-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-6088			Prepared: 07-Oct-14			Analyzed: 08-Oct-14		
Mercury (Hg)	NA	1.04	0.00001	0.00002	µg/wet g	1	0	104	75 - 125%	PASS			
Sample ID: 29118-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-6088			Prepared: 07-Oct-14			Analyzed: 08-Oct-14		
Mercury (Hg)	NA	1.05	0.00001	0.00002	µg/wet g	1	0	105	75 - 125%	PASS	1	30 PASS	
Sample ID: 29119-CRM1	**QAQC CRM - DOLT-2**				**Matrix: Tissue**			**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-6088			Prepared: 07-Oct-14			Analyzed: 08-Oct-14		
Mercury (Hg)	NA	2.1458	0.00001	0.00002	µg/dry g	2.14		100	80 - 120%	PASS			
Sample ID: 29121-MS1	**Bass 1 whole bass**				**Matrix: Tissue**			**Sampled: 04-Aug-14 15:30**			**Received: 15-Aug-14**		
	Method: EPA 245.7				Batch ID: E-6088			Prepared: 07-Oct-14			Analyzed: 08-Oct-14		
Mercury (Hg)	NA	0.7215	0.00001	0.00002	µg/wet g	0.1625	0.5466	108	75 - 125%	PASS			
Sample ID: 29121-MS2	**Bass 1 whole bass**				**Matrix: Tissue**			**Sampled: 04-Aug-14 15:30**			**Received: 15-Aug-14**		
	Method: EPA 245.7				Batch ID: E-6088			Prepared: 07-Oct-14			Analyzed: 08-Oct-14		
Mercury (Hg)	NA	0.72312	0.00001	0.00002	µg/wet g	0.1625	0.5466	109	75 - 125%	PASS	1	30 PASS	
Sample ID: 29121-R2	**Bass 1 whole bass**				**Matrix: Tissue**			**Sampled: 04-Aug-14 15:30**			**Received: 15-Aug-14**		
	Method: EPA 245.7				Batch ID: E-6088			Prepared: 07-Oct-14			Analyzed: 08-Oct-14		
Mercury (Hg)	NA	0.5584	0.00001	0.00002	µg/wet g						4	30 PASS	
Sample ID: 29125-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-6082			Prepared: 15-Sep-14			Analyzed: 17-Sep-14		
Mercury (Hg)	NA	ND	0.00001	0.00002	µg/dry g								
Sample ID: 29125-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-6082			Prepared: 15-Sep-14			Analyzed: 17-Sep-14		

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Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Mercury (Hg)	NA	1.03	0.00001	0.00002	µg/dry g	1	0	103	80 - 120%	PASS			
Sample ID: 29125-BS2		**QAQC Procedural Blank**			**Matrix:**	**DI Water**		**Sampled:**			**Received:**		
		Method: EPA 245.7			Batch ID:	E-6082		Prepared:	15-Sep-14		Analyzed:	17-Sep-14	
Mercury (Hg)	NA	0.997	0.00001	0.00002	µg/dry g	1	0	100	80 - 120%	PASS	3	30 PASS	
Sample ID: 29127-CRM1		**QAQC CRM - ERA 540**			**Matrix:**	**Sediment**		**Sampled:**			**Received:**		
		Method: EPA 245.7			Batch ID:	E-6082		Prepared:	15-Sep-14		Analyzed:	17-Sep-14	
Mercury (Hg)	NA	9.4464	0.00001	0.00002	µg/dry g	9.25		102	80 - 120%	PASS			
Sample ID: 29128-MS1		**L.R. Rocky Pt. Surface**			**Matrix:**	**Sediment**		**Sampled:**	**04-Aug-14**		**Received:**	**15-Aug-14**	
		Method: EPA 245.7			Batch ID:	E-6082		Prepared:	15-Sep-14		Analyzed:	17-Sep-14	
Mercury (Hg)	NA	0.05861	0.00001	0.00002	µg/dry g	0.05233	0.00345	105	80 - 120%	PASS			
Sample ID: 29128-MS2		**L.R. Rocky Pt. Surface**			**Matrix:**	**Sediment**		**Sampled:**	**04-Aug-14**		**Received:**	**15-Aug-14**	
		Method: EPA 245.7			Batch ID:	E-6082		Prepared:	15-Sep-14		Analyzed:	17-Sep-14	
Mercury (Hg)	NA	0.05809	0.00001	0.00002	µg/dry g	0.05233	0.00345	104	80 - 120%	PASS	1	30 PASS	
Sample ID: 29128-R2		**L.R. Rocky Pt. Surface**			**Matrix:**	**Sediment**		**Sampled:**	**04-Aug-14**		**Received:**	**15-Aug-14**	
		Method: EPA 245.7			Batch ID:	E-6082		Prepared:	15-Sep-14		Analyzed:	17-Sep-14	
Mercury (Hg)	NA	0.0033	0.00001	0.00002	µg/dry g						9	30 PASS	

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PCB Congeners — QUALITY CONTROL REPORT

Sample ID: 29118-B1 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**

Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 06-Oct-14

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB003	NA	ND	1	5	ng/wet g							
PCB008	NA	ND	1	5	ng/wet g							
PCB018	NA	ND	1	5	ng/wet g							
PCB028	NA	ND	1	5	ng/wet g							
PCB031	NA	ND	1	5	ng/wet g							
PCB033	NA	ND	1	5	ng/wet g							
PCB037	NA	ND	1	5	ng/wet g							
PCB044	NA	ND	1	5	ng/wet g							
PCB049	NA	ND	1	5	ng/wet g							
PCB052	NA	ND	1	5	ng/wet g							
PCB056(060)	NA	ND	1	5	ng/wet g							
PCB066	NA	ND	1	5	ng/wet g							
PCB070	NA	ND	1	5	ng/wet g							
PCB074	NA	ND	1	5	ng/wet g							
PCB077	NA	ND	1	5	ng/wet g							
PCB081	NA	ND	1	5	ng/wet g							
PCB087	NA	ND	1	5	ng/wet g							
PCB095	NA	ND	1	5	ng/wet g							
PCB097	NA	ND	1	5	ng/wet g							
PCB099	NA	ND	1	5	ng/wet g							
PCB101	NA	ND	1	5	ng/wet g							
PCB105	NA	ND	1	5	ng/wet g							
PCB110	NA	ND	1	5	ng/wet g							
PCB114	NA	ND	1	5	ng/wet g							
PCB118	NA	ND	1	5	ng/wet g							
PCB119	NA	ND	1	5	ng/wet g							
PCB123	NA	ND	1	5	ng/wet g							
PCB126	NA	ND	1	5	ng/wet g							
PCB128	NA	ND	1	5	ng/wet g							

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB138	NA	ND	1	5	ng/wet g							
PCB141	NA	ND	1	5	ng/wet g							
PCB149	NA	ND	1	5	ng/wet g							
PCB151	NA	ND	1	5	ng/wet g							
PCB153	NA	ND	1	5	ng/wet g							
PCB156	NA	ND	1	5	ng/wet g							
PCB157	NA	ND	1	5	ng/wet g							
PCB158	NA	ND	1	5	ng/wet g							
PCB167	NA	ND	1	5	ng/wet g							
PCB168+132	NA	ND	1	5	ng/wet g							
PCB169	NA	ND	1	5	ng/wet g							
PCB170	NA	ND	1	5	ng/wet g							
PCB174	NA	ND	1	5	ng/wet g							
PCB177	NA	ND	1	5	ng/wet g							
PCB180	NA	ND	1	5	ng/wet g							
PCB183	NA	ND	1	5	ng/wet g							
PCB187	NA	ND	1	5	ng/wet g							
PCB189	NA	ND	1	5	ng/wet g							
PCB194	NA	ND	1	5	ng/wet g							
PCB195	NA	ND	1	5	ng/wet g							
PCB199(200)	NA	ND	1	5	ng/wet g							
PCB201	NA	ND	1	5	ng/wet g							
PCB206	NA	ND	1	5	ng/wet g							
PCB209	NA	ND	1	5	ng/wet g							

Sample ID: 29118-BS1 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**
Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 06-Oct-14

PCB003	NA	47.4	1	5	ng/wet g	100	0	47	50 - 150%	FAIL		R
PCB008	NA	53.4	1	5	ng/wet g	100	0	53	50 - 150%	PASS		
PCB018	NA	74.6	1	5	ng/wet g	100	0	75	50 - 150%	PASS		
PCB028	NA	55.4	1	5	ng/wet g	100	0	55	50 - 150%	PASS		
PCB031	NA	66.4	1	5	ng/wet g	100	0	66	50 - 150%	PASS		

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PCB Congeners QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB033	NA	64.1	1	5	ng/wet g	100	0	64	50 - 150%	PASS			
PCB037	NA	69.8	1	5	ng/wet g	100	0	70	50 - 150%	PASS			
PCB044	NA	63.6	1	5	ng/wet g	100	0	64	50 - 150%	PASS			
PCB049	NA	61	1	5	ng/wet g	100	0	61	50 - 150%	PASS			
PCB052	NA	62.8	1	5	ng/wet g	100	0	63	50 - 150%	PASS			
PCB056(060)	NA	79.2	1	5	ng/wet g	100	0	79	50 - 150%	PASS			
PCB066	NA	72.8	1	5	ng/wet g	100	0	73	50 - 150%	PASS			
PCB070	NA	72.1	1	5	ng/wet g	100	0	72	50 - 150%	PASS			
PCB074	NA	72.6	1	5	ng/wet g	100	0	73	50 - 150%	PASS			
PCB077	NA	79.9	1	5	ng/wet g	100	0	80	50 - 150%	PASS			
PCB081	NA	79.4	1	5	ng/wet g	100	0	79	50 - 150%	PASS			
PCB087	NA	75.7	1	5	ng/wet g	100	0	76	50 - 150%	PASS			
PCB095	NA	74.1	1	5	ng/wet g	100	0	74	50 - 150%	PASS			
PCB097	NA	81.4	1	5	ng/wet g	100	0	81	50 - 150%	PASS			
PCB099	NA	80	1	5	ng/wet g	100	0	80	50 - 150%	PASS			
PCB101	NA	75.6	1	5	ng/wet g	100	0	76	50 - 150%	PASS			
PCB105	NA	63.5	1	5	ng/wet g	100	0	63	50 - 150%	PASS			
PCB110	NA	77.3	1	5	ng/wet g	100	0	77	50 - 150%	PASS			
PCB114	NA	87.8	1	5	ng/wet g	100	0	88	50 - 150%	PASS			
PCB118	NA	86.9	1	5	ng/wet g	100	0	87	50 - 150%	PASS			
PCB119	NA	87.1	1	5	ng/wet g	100	0	87	50 - 150%	PASS			
PCB123	NA	84.9	1	5	ng/wet g	100	0	85	50 - 150%	PASS			
PCB126	NA	85.6	1	5	ng/wet g	100	0	86	50 - 150%	PASS			
PCB128	NA	90.6	1	5	ng/wet g	100	0	91	50 - 150%	PASS			
PCB138	NA	70.9	1	5	ng/wet g	100	0	71	50 - 150%	PASS			
PCB141	NA	69.4	1	5	ng/wet g	100	0	69	50 - 150%	PASS			
PCB149	NA	75.6	1	5	ng/wet g	100	0	76	50 - 150%	PASS			
PCB151	NA	80.7	1	5	ng/wet g	100	0	81	50 - 150%	PASS			
PCB153	NA	81.2	1	5	ng/wet g	100	0	81	50 - 150%	PASS			
PCB156	NA	86.3	1	5	ng/wet g	100	0	86	50 - 150%	PASS			
PCB157	NA	87.7	1	5	ng/wet g	100	0	88	50 - 150%	PASS			

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB158	NA	73.1	1	5	ng/wet g	100	0	73	50 - 150%	PASS				
PCB167	NA	79.9	1	5	ng/wet g	100	0	80	50 - 150%	PASS				
PCB168+132	NA	143.8	1	5	ng/wet g	200	0	72	50 - 150%	PASS				
PCB169	NA	117.2	1	5	ng/wet g	100	0	117	50 - 150%	PASS				
PCB170	NA	103.2	1	5	ng/wet g	100	0	103	50 - 150%	PASS				
PCB174	NA	71.6	1	5	ng/wet g	100	0	72	50 - 150%	PASS				
PCB177	NA	83.6	1	5	ng/wet g	100	0	84	50 - 150%	PASS				
PCB180	NA	92	1	5	ng/wet g	100	0	92	50 - 150%	PASS				
PCB183	NA	74.1	1	5	ng/wet g	100	0	74	50 - 150%	PASS				
PCB187	NA	73.1	1	5	ng/wet g	100	0	73	50 - 150%	PASS				
PCB189	NA	124.9	1	5	ng/wet g	100	0	125	50 - 150%	PASS				
PCB194	NA	148.3	1	5	ng/wet g	100	0	148	50 - 150%	PASS				
PCB195	NA	129.4	1	5	ng/wet g	100	0	129	50 - 150%	PASS				
PCB199(200)	NA	78.1	1	5	ng/wet g	100	0	78	50 - 150%	PASS				
PCB201	NA	119.6	1	5	ng/wet g	100	0	120	50 - 150%	PASS				
PCB206	NA	99.2	1	5	ng/wet g	100	0	99	50 - 150%	PASS				
PCB209	NA	125.5	1	5	ng/wet g	100	0	125	50 - 150%	PASS				

Sample ID: 29118-BS2 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**

Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 06-Oct-14

PCB003	NA	60.8	1	5	ng/wet g	100	0	61	50 - 150%	PASS	26	30	PASS	
PCB008	NA	71.3	1	5	ng/wet g	100	0	71	50 - 150%	PASS	29	30	PASS	
PCB018	NA	74.2	1	5	ng/wet g	100	0	74	50 - 150%	PASS	1	30	PASS	
PCB028	NA	72.8	1	5	ng/wet g	100	0	73	50 - 150%	PASS	28	30	PASS	
PCB031	NA	87.5	1	5	ng/wet g	100	0	88	50 - 150%	PASS	29	30	PASS	
PCB033	NA	87.3	1	5	ng/wet g	100	0	87	50 - 150%	PASS	30	30	PASS	
PCB037	NA	92.5	1	5	ng/wet g	100	0	93	50 - 150%	PASS	27	30	PASS	
PCB044	NA	86.2	1	5	ng/wet g	100	0	86	50 - 150%	PASS	29	30	PASS	
PCB049	NA	81.5	1	5	ng/wet g	100	0	81	50 - 150%	PASS	29	30	PASS	
PCB052	NA	83.5	1	5	ng/wet g	100	0	83	50 - 150%	PASS	29	30	PASS	
PCB056(060)	NA	106.6	1	5	ng/wet g	100	0	107	50 - 150%	PASS	30	30	PASS	
PCB066	NA	96.8	1	5	ng/wet g	100	0	97	50 - 150%	PASS	28	30	PASS	

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PCB Congeners QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB070	NA	96.2	1	5	ng/wet g	100	0	96	50 - 150%	PASS	29	30	PASS	
PCB074	NA	90	1	5	ng/wet g	100	0	90	50 - 150%	PASS	21	30	PASS	
PCB077	NA	107.3	1	5	ng/wet g	100	0	107	50 - 150%	PASS	29	30	PASS	
PCB081	NA	104	1	5	ng/wet g	100	0	104	50 - 150%	PASS	27	30	PASS	
PCB087	NA	102.2	1	5	ng/wet g	100	0	102	50 - 150%	PASS	29	30	PASS	
PCB095	NA	97	1	5	ng/wet g	100	0	97	50 - 150%	PASS	27	30	PASS	
PCB097	NA	106.2	1	5	ng/wet g	100	0	106	50 - 150%	PASS	27	30	PASS	
PCB099	NA	102.3	1	5	ng/wet g	100	0	102	50 - 150%	PASS	24	30	PASS	
PCB101	NA	100.1	1	5	ng/wet g	100	0	100	50 - 150%	PASS	27	30	PASS	
PCB105	NA	81.8	1	5	ng/wet g	100	0	82	50 - 150%	PASS	25	30	PASS	
PCB110	NA	104.2	1	5	ng/wet g	100	0	104	50 - 150%	PASS	30	30	PASS	
PCB114	NA	116.4	1	5	ng/wet g	100	0	116	50 - 150%	PASS	27	30	PASS	
PCB118	NA	115.8	1	5	ng/wet g	100	0	116	50 - 150%	PASS	29	30	PASS	
PCB119	NA	115	1	5	ng/wet g	100	0	115	50 - 150%	PASS	28	30	PASS	
PCB123	NA	111.5	1	5	ng/wet g	100	0	112	50 - 150%	PASS	27	30	PASS	
PCB126	NA	110.6	1	5	ng/wet g	100	0	111	50 - 150%	PASS	25	30	PASS	
PCB128	NA	115.5	1	5	ng/wet g	100	0	115	50 - 150%	PASS	24	30	PASS	
PCB138	NA	90	1	5	ng/wet g	100	0	90	50 - 150%	PASS	24	30	PASS	
PCB141	NA	90.1	1	5	ng/wet g	100	0	90	50 - 150%	PASS	26	30	PASS	
PCB149	NA	103	1	5	ng/wet g	100	0	103	50 - 150%	PASS	30	30	PASS	
PCB151	NA	102.5	1	5	ng/wet g	100	0	102	50 - 150%	PASS	23	30	PASS	
PCB153	NA	107.4	1	5	ng/wet g	100	0	107	50 - 150%	PASS	28	30	PASS	
PCB156	NA	112.3	1	5	ng/wet g	100	0	112	50 - 150%	PASS	26	30	PASS	
PCB157	NA	117.2	1	5	ng/wet g	100	0	117	50 - 150%	PASS	28	30	PASS	
PCB158	NA	90.3	1	5	ng/wet g	100	0	90	50 - 150%	PASS	21	30	PASS	
PCB167	NA	99.8	1	5	ng/wet g	100	0	100	50 - 150%	PASS	22	30	PASS	
PCB168+132	NA	167.7	1	5	ng/wet g	200	0	84	50 - 150%	PASS	15	30	PASS	
PCB169	NA	135.3	1	5	ng/wet g	100	0	135	50 - 150%	PASS	14	30	PASS	
PCB170	NA	109	1	5	ng/wet g	100	0	109	50 - 150%	PASS	6	30	PASS	
PCB174	NA	90.6	1	5	ng/wet g	100	0	91	50 - 150%	PASS	23	30	PASS	
PCB177	NA	107.6	1	5	ng/wet g	100	0	108	50 - 150%	PASS	25	30	PASS	

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB180	NA	118.5	1	5	ng/wet g	100	0	118	50 - 150%	PASS	25	30	PASS	
PCB183	NA	94.6	1	5	ng/wet g	100	0	95	50 - 150%	PASS	25	30	PASS	
PCB187	NA	91.7	1	5	ng/wet g	100	0	92	50 - 150%	PASS	23	30	PASS	
PCB189	NA	139.8	1	5	ng/wet g	100	0	140	50 - 150%	PASS	11	30	PASS	
PCB194	NA	172.1	1	5	ng/wet g	100	0	172	50 - 150%	FAIL	15	30	PASS	R
PCB195	NA	148.3	1	5	ng/wet g	100	0	148	50 - 150%	PASS	14	30	PASS	
PCB199(200)	NA	104.6	1	5	ng/wet g	100	0	105	50 - 150%	PASS	30	30	PASS	
PCB201	NA	125.5	1	5	ng/wet g	100	0	125	50 - 150%	PASS	5	30	PASS	
PCB206	NA	114.8	1	5	ng/wet g	100	0	115	50 - 150%	PASS	15	30	PASS	
PCB209	NA	125.9	1	5	ng/wet g	100	0	126	50 - 150%	PASS	0	30	PASS	

Sample ID: 29121-MS1 **Bass 1 whole bass** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 06-Oct-14

PCB003	NA	20	1	5	ng/wet g	19.3	0	104	50 - 150%	PASS				
PCB008	NA	21.3	1	5	ng/wet g	19.3	0	110	50 - 150%	PASS				
PCB018	NA	21.9	1	5	ng/wet g	19.3	0	113	50 - 150%	PASS				
PCB028	NA	21.9	1	5	ng/wet g	19.3	0.5	111	50 - 150%	PASS				
PCB031	NA	25.4	1	5	ng/wet g	19.3	0	132	50 - 150%	PASS				
PCB033	NA	21.5	1	5	ng/wet g	19.3	0	111	50 - 150%	PASS				
PCB037	NA	18.4	1	5	ng/wet g	19.3	0	95	50 - 150%	PASS				
PCB044	NA	18.3	1	5	ng/wet g	19.3	0	95	50 - 150%	PASS				
PCB049	NA	20	1	5	ng/wet g	19.3	0	104	50 - 150%	PASS				
PCB052	NA	20.6	1	5	ng/wet g	19.3	0	107	50 - 150%	PASS				
PCB056(060)	NA	20.8	1	5	ng/wet g	19.3	0	108	50 - 150%	PASS				
PCB066	NA	21.4	1	5	ng/wet g	19.3	0	111	50 - 150%	PASS				
PCB070	NA	24	1	5	ng/wet g	19.3	4.8	99	50 - 150%	PASS				
PCB074	NA	20.4	1	5	ng/wet g	19.3	1.5	98	50 - 150%	PASS				
PCB077	NA	32.6	1	5	ng/wet g	19.3	0	169	50 - 150%	FAIL				M
PCB081	NA	21.4	1	5	ng/wet g	19.3	0	111	50 - 150%	PASS				
PCB087	NA	21.9	1	5	ng/wet g	19.3	0	113	50 - 150%	PASS				
PCB095	NA	23	1	5	ng/wet g	19.3	1.3	112	50 - 150%	PASS				
PCB097	NA	21.5	1	5	ng/wet g	19.3	0	111	50 - 150%	PASS				

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PCB Congeners QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB099	NA	21.7	1	5	ng/wet g	19.3	0	112	50 - 150%	PASS			
PCB101	NA	23	1	5	ng/wet g	19.3	1.7	110	50 - 150%	PASS			
PCB105	NA	21	1	5	ng/wet g	19.3	0	109	50 - 150%	PASS			
PCB110	NA	22.7	1	5	ng/wet g	19.3	1.4	110	50 - 150%	PASS			
PCB114	NA	21.2	1	5	ng/wet g	19.3	1.3	103	50 - 150%	PASS			
PCB118	NA	22.3	1	5	ng/wet g	19.3	1.5	108	50 - 150%	PASS			
PCB119	NA	24.8	1	5	ng/wet g	19.3	0	128	50 - 150%	PASS			
PCB123	NA	21.9	1	5	ng/wet g	19.3	0	113	50 - 150%	PASS			
PCB126	NA	23.7	1	5	ng/wet g	19.3	0	123	50 - 150%	PASS			
PCB128	NA	27.2	1	5	ng/wet g	19.3	0	141	50 - 150%	PASS			
PCB138	NA	25.6	1	5	ng/wet g	19.3	4.8	108	50 - 150%	PASS			
PCB141	NA	24.4	1	5	ng/wet g	19.3	0	126	50 - 150%	PASS			
PCB149	NA	22.2	1	5	ng/wet g	19.3	1.2	109	50 - 150%	PASS			
PCB151	NA	23	1	5	ng/wet g	19.3	0	119	50 - 150%	PASS			
PCB153	NA	33.7	1	5	ng/wet g	19.3	5.4	147	50 - 150%	PASS			
PCB156	NA	22.3	1	5	ng/wet g	19.3	0	116	50 - 150%	PASS			
PCB157	NA	24.8	1	5	ng/wet g	19.3	0	128	50 - 150%	PASS			
PCB158	NA	23.9	1	5	ng/wet g	19.3	0	124	50 - 150%	PASS			
PCB167	NA	21	1	5	ng/wet g	19.3	0	109	50 - 150%	PASS			
PCB168+132	NA	47.6	1	5	ng/wet g	38.6	0	123	50 - 150%	PASS			
PCB169	NA	26.5	1	5	ng/wet g	19.3	0	137	50 - 150%	PASS			
PCB170	NA	24.7	1	5	ng/wet g	19.3	1.4	121	50 - 150%	PASS			
PCB174	NA	21.3	1	5	ng/wet g	19.3	0	110	50 - 150%	PASS			
PCB177	NA	24.6	1	5	ng/wet g	19.3	0	127	50 - 150%	PASS			
PCB180	NA	24.9	1	5	ng/wet g	19.3	3.2	112	50 - 150%	PASS			
PCB183	NA	22.4	1	5	ng/wet g	19.3	0	116	50 - 150%	PASS			
PCB187	NA	24.2	1	5	ng/wet g	19.3	2	115	50 - 150%	PASS			
PCB189	NA	23.7	1	5	ng/wet g	19.3	0	123	50 - 150%	PASS			
PCB194	NA	25.3	1	5	ng/wet g	19.3	0	131	50 - 150%	PASS			
PCB195	NA	29.9	1	5	ng/wet g	19.3	0	155	50 - 150%	FAIL			M
PCB199(200)	NA	22.3	1	5	ng/wet g	19.3	0	116	50 - 150%	PASS			

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PCB Congeners QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB201	NA	24.1	1	5	ng/wet g	19.3	0	125	50 - 150%	PASS				
PCB206	NA	20	1	5	ng/wet g	19.3	0	104	50 - 150%	PASS				
PCB209	NA	16.9	1	5	ng/wet g	19.3	0	88	50 - 150%	PASS				
Sample ID: 29121-MS2	**Bass 1 whole bass**				**Matrix: Tissue**			**Sampled: 04-Aug-14 15:30**			**Received: 15-Aug-14**			
	Method: EPA 8270D				Batch ID: O-6100			Prepared: 29-Sep-14			Analyzed: 07-Oct-14			
PCB003	NA	30	1	5	ng/wet g	19.9	0	151	50 - 150%	FAIL	37	30	FAIL	M
PCB008	NA	26.4	1	5	ng/wet g	19.9	0	133	50 - 150%	PASS	19	30	PASS	
PCB018	NA	23.2	1	5	ng/wet g	19.9	0	117	50 - 150%	PASS	3	30	PASS	
PCB028	NA	32.4	1	5	ng/wet g	19.9	0.5	160	50 - 150%	FAIL	36	30	FAIL	M
PCB031	NA	21.4	1	5	ng/wet g	19.9	0	108	50 - 150%	PASS	20	30	PASS	
PCB033	NA	21.4	1	5	ng/wet g	19.9	0	108	50 - 150%	PASS	3	30	PASS	
PCB037	NA	26.2	1	5	ng/wet g	19.9	0	132	50 - 150%	PASS	33	30	FAIL	M
PCB044	NA	19.1	1	5	ng/wet g	19.9	0	96	50 - 150%	PASS	1	30	PASS	
PCB049	NA	21.8	1	5	ng/wet g	19.9	0	110	50 - 150%	PASS	6	30	PASS	
PCB052	NA	22.8	1	5	ng/wet g	19.9	0	115	50 - 150%	PASS	7	30	PASS	
PCB056(060)	NA	21.2	1	5	ng/wet g	19.9	0	107	50 - 150%	PASS	1	30	PASS	
PCB066	NA	23.2	1	5	ng/wet g	19.9	0	117	50 - 150%	PASS	5	30	PASS	
PCB070	NA	14.7	1	5	ng/wet g	19.9	4.8	50	50 - 150%	PASS	66	30	FAIL	M
PCB074	NA	23.5	1	5	ng/wet g	19.9	1.5	111	50 - 150%	PASS	12	30	PASS	
PCB077	NA	26.8	1	5	ng/wet g	19.9	0	135	50 - 150%	PASS	22	30	PASS	
PCB081	NA	17.6	1	5	ng/wet g	19.9	0	88	50 - 150%	PASS	23	30	PASS	
PCB087	NA	24.3	1	5	ng/wet g	19.9	0	122	50 - 150%	PASS	8	30	PASS	
PCB095	NA	26.9	1	5	ng/wet g	19.9	1.3	129	50 - 150%	PASS	14	30	PASS	
PCB097	NA	24.3	1	5	ng/wet g	19.9	0	122	50 - 150%	PASS	9	30	PASS	
PCB099	NA	24.2	1	5	ng/wet g	19.9	0	122	50 - 150%	PASS	9	30	PASS	
PCB101	NA	24.6	1	5	ng/wet g	19.9	1.7	115	50 - 150%	PASS	4	30	PASS	
PCB105	NA	20	1	5	ng/wet g	19.9	0	101	50 - 150%	PASS	8	30	PASS	
PCB110	NA	25.4	1	5	ng/wet g	19.9	1.4	121	50 - 150%	PASS	10	30	PASS	
PCB114	NA	22.9	1	5	ng/wet g	19.9	1.3	109	50 - 150%	PASS	6	30	PASS	
PCB118	NA	24.1	1	5	ng/wet g	19.9	1.5	114	50 - 150%	PASS	5	30	PASS	
PCB119	NA	22.4	1	5	ng/wet g	19.9	0	113	50 - 150%	PASS	12	30	PASS	

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB123	NA	22.4	1	5	ng/wet g	19.9	0	113	50 - 150%	PASS	0	30	PASS	
PCB126	NA	22.6	1	5	ng/wet g	19.9	0	114	50 - 150%	PASS	8	30	PASS	
PCB128	NA	27.9	1	5	ng/wet g	19.9	0	140	50 - 150%	PASS	1	30	PASS	
PCB138	NA	25.5	1	5	ng/wet g	19.9	4.8	104	50 - 150%	PASS	4	30	PASS	
PCB141	NA	23.7	1	5	ng/wet g	19.9	0	119	50 - 150%	PASS	6	30	PASS	
PCB149	NA	23.1	1	5	ng/wet g	19.9	1.2	110	50 - 150%	PASS	1	30	PASS	
PCB151	NA	26.4	1	5	ng/wet g	19.9	0	133	50 - 150%	PASS	11	30	PASS	
PCB153	NA	32	1	5	ng/wet g	19.9	5.4	134	50 - 150%	PASS	9	30	PASS	
PCB156	NA	23.5	1	5	ng/wet g	19.9	0	118	50 - 150%	PASS	2	30	PASS	
PCB157	NA	24	1	5	ng/wet g	19.9	0	121	50 - 150%	PASS	6	30	PASS	
PCB158	NA	27.2	1	5	ng/wet g	19.9	0	137	50 - 150%	PASS	10	30	PASS	
PCB167	NA	25.3	1	5	ng/wet g	19.9	0	127	50 - 150%	PASS	15	30	PASS	
PCB168+132	NA	54.3	1	5	ng/wet g	39.8	0	136	50 - 150%	PASS	10	30	PASS	
PCB169	NA	25.8	1	5	ng/wet g	19.9	0	130	50 - 150%	PASS	5	30	PASS	
PCB170	NA	24.8	1	5	ng/wet g	19.9	1.4	118	50 - 150%	PASS	3	30	PASS	
PCB174	NA	23.6	1	5	ng/wet g	19.9	0	119	50 - 150%	PASS	8	30	PASS	
PCB177	NA	24.6	1	5	ng/wet g	19.9	0	124	50 - 150%	PASS	2	30	PASS	
PCB180	NA	25.9	1	5	ng/wet g	19.9	3.2	114	50 - 150%	PASS	2	30	PASS	
PCB183	NA	23.6	1	5	ng/wet g	19.9	0	119	50 - 150%	PASS	3	30	PASS	
PCB187	NA	23.7	1	5	ng/wet g	19.9	2	109	50 - 150%	PASS	5	30	PASS	
PCB189	NA	27.7	1	5	ng/wet g	19.9	0	139	50 - 150%	PASS	12	30	PASS	
PCB194	NA	21.3	1	5	ng/wet g	19.9	0	107	50 - 150%	PASS	20	30	PASS	
PCB195	NA	26.2	1	5	ng/wet g	19.9	0	132	50 - 150%	PASS	16	30	PASS	
PCB199(200)	NA	22.9	1	5	ng/wet g	19.9	0	115	50 - 150%	PASS	1	30	PASS	
PCB201	NA	24.7	1	5	ng/wet g	19.9	0	124	50 - 150%	PASS	1	30	PASS	
PCB206	NA	20.5	1	5	ng/wet g	19.9	0	103	50 - 150%	PASS	1	30	PASS	
PCB209	NA	23.5	1	5	ng/wet g	19.9	0	118	50 - 150%	PASS	29	30	PASS	

Sample ID: 29121-R2 **Bass 1 whole bass** **Matrix: Tissue** **Sampled: 04-Aug-14 15:30** **Received: 15-Aug-14**
Method: EPA 8270D Batch ID: O-6100 Prepared: 29-Sep-14 Analyzed: 07-Oct-14

PCB003	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB008	NA	ND	1	5	ng/wet g						0	30	PASS	

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PCB Congeners QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB018	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB028	NA	ND	1	5	ng/wet g						10	30	PASS	
PCB031	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB033	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB037	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB044	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB049	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB052	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB056(060)	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB066	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB070	NA	5	1	5	ng/wet g						11	30	PASS	
PCB074	NA	1.8	1	5	ng/wet g						40	30	FAIL	J,SL
PCB077	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB081	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB087	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB095	NA	1.3	1	5	ng/wet g						0	30	PASS	J
PCB097	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB099	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB101	NA	1.6	1	5	ng/wet g						12	30	PASS	J
PCB105	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB110	NA	1.6	1	5	ng/wet g						21	30	PASS	J
PCB114	NA	1	1	5	ng/wet g						40	30	FAIL	J,SL
PCB118	NA	2	1	5	ng/wet g						67	30	FAIL	J,SL
PCB119	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB123	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB126	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB128	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB138	NA	4.4	1	5	ng/wet g						15	30	PASS	J
PCB141	NA	ND	1	5	ng/wet g						0	30	PASS	
PCB149	NA	1.1	1	5	ng/wet g						17	30	PASS	J
PCB151	NA	ND	1	5	ng/wet g						0	30	PASS	

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
PCB153	NA	6.2	1	5	ng/wet g					30	30	PASS	
PCB156	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB157	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB158	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB167	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB168+132	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB169	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB170	NA	ND	1	5	ng/wet g					95	30	FAIL	SL
PCB174	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB177	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB180	NA	3.5	1	5	ng/wet g					19	30	PASS	J
PCB183	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB187	NA	2	1	5	ng/wet g					0	30	PASS	J
PCB189	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB194	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB195	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB199(200)	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB201	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB206	NA	ND	1	5	ng/wet g					0	30	PASS	
PCB209	NA	ND	1	5	ng/wet g					0	30	PASS	

Sample ID: 29125-B1 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

PCB003	NA	ND	1	5	ng/dry g
PCB008	NA	ND	1	5	ng/dry g
PCB018	NA	ND	1	5	ng/dry g
PCB028	NA	ND	1	5	ng/dry g
PCB031	NA	ND	1	5	ng/dry g
PCB033	NA	ND	1	5	ng/dry g
PCB037	NA	ND	1	5	ng/dry g
PCB044	NA	ND	1	5	ng/dry g
PCB049	NA	ND	1	5	ng/dry g

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PCB Congeners QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB052	NA	ND	1	5	ng/dry g							
PCB056(060)	NA	ND	1	5	ng/dry g							
PCB066	NA	ND	1	5	ng/dry g							
PCB070	NA	ND	1	5	ng/dry g							
PCB074	NA	ND	1	5	ng/dry g							
PCB077	NA	ND	1	5	ng/dry g							
PCB081	NA	ND	1	5	ng/dry g							
PCB087	NA	ND	1	5	ng/dry g							
PCB095	NA	ND	1	5	ng/dry g							
PCB097	NA	ND	1	5	ng/dry g							
PCB099	NA	ND	1	5	ng/dry g							
PCB101	NA	ND	1	5	ng/dry g							
PCB105	NA	ND	1	5	ng/dry g							
PCB110	NA	ND	1	5	ng/dry g							
PCB114	NA	ND	1	5	ng/dry g							
PCB118	NA	ND	1	5	ng/dry g							
PCB119	NA	ND	1	5	ng/dry g							
PCB123	NA	ND	1	5	ng/dry g							
PCB126	NA	ND	1	5	ng/dry g							
PCB128	NA	ND	1	5	ng/dry g							
PCB138	NA	ND	1	5	ng/dry g							
PCB141	NA	ND	1	5	ng/dry g							
PCB149	NA	ND	1	5	ng/dry g							
PCB151	NA	ND	1	5	ng/dry g							
PCB153	NA	ND	1	5	ng/dry g							
PCB156	NA	ND	1	5	ng/dry g							
PCB157	NA	ND	1	5	ng/dry g							
PCB158	NA	ND	1	5	ng/dry g							
PCB167	NA	ND	1	5	ng/dry g							
PCB168+132	NA	ND	1	5	ng/dry g							
PCB169	NA	ND	1	5	ng/dry g							

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB170	NA	ND	1	5	ng/dry g							
PCB174	NA	ND	1	5	ng/dry g							
PCB177	NA	ND	1	5	ng/dry g							
PCB180	NA	ND	1	5	ng/dry g							
PCB183	NA	ND	1	5	ng/dry g							
PCB187	NA	ND	1	5	ng/dry g							
PCB189	NA	ND	1	5	ng/dry g							
PCB194	NA	ND	1	5	ng/dry g							
PCB195	NA	ND	1	5	ng/dry g							
PCB199(200)	NA	ND	1	5	ng/dry g							
PCB201	NA	ND	1	5	ng/dry g							
PCB206	NA	ND	1	5	ng/dry g							
PCB209	NA	ND	1	5	ng/dry g							

Sample ID: 29125-BS1 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

PCB003	NA	88.9	1	5	ng/dry g	100	0	89	50 - 150%	PASS	
PCB008	NA	88.4	1	5	ng/dry g	100	0	88	50 - 150%	PASS	
PCB018	NA	89.4	1	5	ng/dry g	100	0	89	50 - 150%	PASS	
PCB028	NA	105.5	1	5	ng/dry g	100	0	105	50 - 150%	PASS	
PCB031	NA	58	1	5	ng/dry g	100	0	58	50 - 150%	PASS	
PCB033	NA	91.7	1	5	ng/dry g	100	0	92	50 - 150%	PASS	
PCB037	NA	98.3	1	5	ng/dry g	100	0	98	50 - 150%	PASS	
PCB044	NA	93.1	1	5	ng/dry g	100	0	93	50 - 150%	PASS	
PCB049	NA	93.7	1	5	ng/dry g	100	0	94	50 - 150%	PASS	
PCB052	NA	95.5	1	5	ng/dry g	100	0	95	50 - 150%	PASS	
PCB056(060)	NA	105.6	1	5	ng/dry g	100	0	106	50 - 150%	PASS	
PCB066	NA	97.1	1	5	ng/dry g	100	0	97	50 - 150%	PASS	
PCB070	NA	100.1	1	5	ng/dry g	100	0	100	50 - 150%	PASS	
PCB074	NA	102.4	1	5	ng/dry g	100	0	102	50 - 150%	PASS	
PCB077	NA	99.4	1	5	ng/dry g	100	0	99	50 - 150%	PASS	
PCB081	NA	104.3	1	5	ng/dry g	100	0	104	50 - 150%	PASS	

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PCB Congeners QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB087	NA	101.9	1	5	ng/dry g	100	0	102	50 - 150%	PASS			
PCB095	NA	94.6	1	5	ng/dry g	100	0	95	50 - 150%	PASS			
PCB097	NA	100	1	5	ng/dry g	100	0	100	50 - 150%	PASS			
PCB099	NA	94.6	1	5	ng/dry g	100	0	95	50 - 150%	PASS			
PCB101	NA	95.3	1	5	ng/dry g	100	0	95	50 - 150%	PASS			
PCB105	NA	94.8	1	5	ng/dry g	100	0	95	50 - 150%	PASS			
PCB110	NA	102.2	1	5	ng/dry g	100	0	102	50 - 150%	PASS			
PCB114	NA	98.4	1	5	ng/dry g	100	0	98	50 - 150%	PASS			
PCB118	NA	105.3	1	5	ng/dry g	100	0	105	50 - 150%	PASS			
PCB119	NA	106.2	1	5	ng/dry g	100	0	106	50 - 150%	PASS			
PCB123	NA	102.3	1	5	ng/dry g	100	0	102	50 - 150%	PASS			
PCB126	NA	98.6	1	5	ng/dry g	100	0	99	50 - 150%	PASS			
PCB128	NA	95.4	1	5	ng/dry g	100	0	95	50 - 150%	PASS			
PCB138	NA	90.3	1	5	ng/dry g	100	0	90	50 - 150%	PASS			
PCB141	NA	96.8	1	5	ng/dry g	100	0	97	50 - 150%	PASS			
PCB149	NA	101	1	5	ng/dry g	100	0	101	50 - 150%	PASS			
PCB151	NA	102.7	1	5	ng/dry g	100	0	103	50 - 150%	PASS			
PCB153	NA	108.8	1	5	ng/dry g	100	0	109	50 - 150%	PASS			
PCB156	NA	106.9	1	5	ng/dry g	100	0	107	50 - 150%	PASS			
PCB157	NA	95.7	1	5	ng/dry g	100	0	96	50 - 150%	PASS			
PCB158	NA	99.7	1	5	ng/dry g	100	0	100	50 - 150%	PASS			
PCB167	NA	99.8	1	5	ng/dry g	100	0	100	50 - 150%	PASS			
PCB168+132	NA	180.7	1	5	ng/dry g	200	0	90	50 - 150%	PASS			
PCB169	NA	112.7	1	5	ng/dry g	100	0	113	50 - 150%	PASS			
PCB170	NA	105.6	1	5	ng/dry g	100	0	106	50 - 150%	PASS			
PCB174	NA	99.7	1	5	ng/dry g	100	0	100	50 - 150%	PASS			
PCB177	NA	100.8	1	5	ng/dry g	100	0	101	50 - 150%	PASS			
PCB180	NA	107.7	1	5	ng/dry g	100	0	108	50 - 150%	PASS			
PCB183	NA	84.9	1	5	ng/dry g	100	0	85	50 - 150%	PASS			
PCB187	NA	91.6	1	5	ng/dry g	100	0	92	50 - 150%	PASS			
PCB189	NA	113.6	1	5	ng/dry g	100	0	114	50 - 150%	PASS			

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB194	NA	117.1	1	5	ng/dry g	100	0	117	50 - 150%	PASS				
PCB195	NA	118.9	1	5	ng/dry g	100	0	119	50 - 150%	PASS				
PCB199(200)	NA	88.2	1	5	ng/dry g	100	0	88	50 - 150%	PASS				
PCB201	NA	103.3	1	5	ng/dry g	100	0	103	50 - 150%	PASS				
PCB206	NA	111.2	1	5	ng/dry g	100	0	111	50 - 150%	PASS				
PCB209	NA	105.6	1	5	ng/dry g	100	0	106	50 - 150%	PASS				

Sample ID: 29125-BS2 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**
Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

PCB003	NA	86.8	1	5	ng/dry g	100	0	87	50 - 150%	PASS	2	30	PASS	
PCB008	NA	88.7	1	5	ng/dry g	100	0	89	50 - 150%	PASS	1	30	PASS	
PCB018	NA	96	1	5	ng/dry g	100	0	96	50 - 150%	PASS	8	30	PASS	
PCB028	NA	97.5	1	5	ng/dry g	100	0	98	50 - 150%	PASS	7	30	PASS	
PCB031	NA	88.9	1	5	ng/dry g	100	0	89	50 - 150%	PASS	42	30	FAIL	R
PCB033	NA	91.5	1	5	ng/dry g	100	0	92	50 - 150%	PASS	0	30	PASS	
PCB037	NA	96.2	1	5	ng/dry g	100	0	96	50 - 150%	PASS	2	30	PASS	
PCB044	NA	95.1	1	5	ng/dry g	100	0	95	50 - 150%	PASS	2	30	PASS	
PCB049	NA	95.5	1	5	ng/dry g	100	0	95	50 - 150%	PASS	2	30	PASS	
PCB052	NA	94.4	1	5	ng/dry g	100	0	94	50 - 150%	PASS	2	30	PASS	
PCB056(060)	NA	108.8	1	5	ng/dry g	100	0	109	50 - 150%	PASS	3	30	PASS	
PCB066	NA	97.3	1	5	ng/dry g	100	0	97	50 - 150%	PASS	0	30	PASS	
PCB070	NA	97.8	1	5	ng/dry g	100	0	98	50 - 150%	PASS	2	30	PASS	
PCB074	NA	104.2	1	5	ng/dry g	100	0	104	50 - 150%	PASS	2	30	PASS	
PCB077	NA	100.9	1	5	ng/dry g	100	0	101	50 - 150%	PASS	2	30	PASS	
PCB081	NA	101.2	1	5	ng/dry g	100	0	101	50 - 150%	PASS	3	30	PASS	
PCB087	NA	102.9	1	5	ng/dry g	100	0	103	50 - 150%	PASS	1	30	PASS	
PCB095	NA	99.2	1	5	ng/dry g	100	0	99	50 - 150%	PASS	4	30	PASS	
PCB097	NA	100.3	1	5	ng/dry g	100	0	100	50 - 150%	PASS	0	30	PASS	
PCB099	NA	97.1	1	5	ng/dry g	100	0	97	50 - 150%	PASS	2	30	PASS	
PCB101	NA	94	1	5	ng/dry g	100	0	94	50 - 150%	PASS	1	30	PASS	
PCB105	NA	92.2	1	5	ng/dry g	100	0	92	50 - 150%	PASS	3	30	PASS	
PCB110	NA	100.6	1	5	ng/dry g	100	0	101	50 - 150%	PASS	1	30	PASS	

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB114	NA	100.7	1	5	ng/dry g	100	0	101	50 - 150%	PASS	3	30	PASS	
PCB118	NA	99.9	1	5	ng/dry g	100	0	100	50 - 150%	PASS	5	30	PASS	
PCB119	NA	102.7	1	5	ng/dry g	100	0	103	50 - 150%	PASS	3	30	PASS	
PCB123	NA	101.4	1	5	ng/dry g	100	0	101	50 - 150%	PASS	1	30	PASS	
PCB126	NA	94	1	5	ng/dry g	100	0	94	50 - 150%	PASS	5	30	PASS	
PCB128	NA	96.5	1	5	ng/dry g	100	0	96	50 - 150%	PASS	1	30	PASS	
PCB138	NA	94.1	1	5	ng/dry g	100	0	94	50 - 150%	PASS	4	30	PASS	
PCB141	NA	96.1	1	5	ng/dry g	100	0	96	50 - 150%	PASS	1	30	PASS	
PCB149	NA	96.9	1	5	ng/dry g	100	0	97	50 - 150%	PASS	4	30	PASS	
PCB151	NA	99.5	1	5	ng/dry g	100	0	100	50 - 150%	PASS	3	30	PASS	
PCB153	NA	101.8	1	5	ng/dry g	100	0	102	50 - 150%	PASS	7	30	PASS	
PCB156	NA	102.8	1	5	ng/dry g	100	0	103	50 - 150%	PASS	4	30	PASS	
PCB157	NA	97.8	1	5	ng/dry g	100	0	98	50 - 150%	PASS	2	30	PASS	
PCB158	NA	95.7	1	5	ng/dry g	100	0	96	50 - 150%	PASS	4	30	PASS	
PCB167	NA	99.3	1	5	ng/dry g	100	0	99	50 - 150%	PASS	1	30	PASS	
PCB168+132	NA	183.6	1	5	ng/dry g	200	0	92	50 - 150%	PASS	2	30	PASS	
PCB169	NA	115.2	1	5	ng/dry g	100	0	115	50 - 150%	PASS	2	30	PASS	
PCB170	NA	105.5	1	5	ng/dry g	100	0	105	50 - 150%	PASS	1	30	PASS	
PCB174	NA	99.7	1	5	ng/dry g	100	0	100	50 - 150%	PASS	0	30	PASS	
PCB177	NA	99.6	1	5	ng/dry g	100	0	100	50 - 150%	PASS	1	30	PASS	
PCB180	NA	101.7	1	5	ng/dry g	100	0	102	50 - 150%	PASS	6	30	PASS	
PCB183	NA	84.5	1	5	ng/dry g	100	0	85	50 - 150%	PASS	1	30	PASS	
PCB187	NA	90.7	1	5	ng/dry g	100	0	91	50 - 150%	PASS	1	30	PASS	
PCB189	NA	111.9	1	5	ng/dry g	100	0	112	50 - 150%	PASS	2	30	PASS	
PCB194	NA	103.8	1	5	ng/dry g	100	0	104	50 - 150%	PASS	12	30	PASS	
PCB195	NA	106	1	5	ng/dry g	100	0	106	50 - 150%	PASS	12	30	PASS	
PCB199(200)	NA	83.9	1	5	ng/dry g	100	0	84	50 - 150%	PASS	5	30	PASS	
PCB201	NA	98.3	1	5	ng/dry g	100	0	98	50 - 150%	PASS	5	30	PASS	
PCB206	NA	118.1	1	5	ng/dry g	100	0	118	50 - 150%	PASS	6	30	PASS	
PCB209	NA	108.9	1	5	ng/dry g	100	0	109	50 - 150%	PASS	3	30	PASS	

Sample ID: 29131-MS1 **Boat Ramp Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
	Method:	EPA 8270D			Batch ID:	O-6090		Prepared:	12-Sep-14		Analyzed:	30-Sep-14	
PCB003	NA	10.4	1	5	ng/dry g	12.2	0	85	50 - 150%	PASS			
PCB008	NA	10.1	1	5	ng/dry g	12.2	0	83	50 - 150%	PASS			
PCB018	NA	11	1	5	ng/dry g	12.2	0	90	50 - 150%	PASS			
PCB028	NA	12.3	1	5	ng/dry g	12.2	0	101	50 - 150%	PASS			
PCB031	NA	8.8	1	5	ng/dry g	12.2	0	72	50 - 150%	PASS			
PCB033	NA	11.7	1	5	ng/dry g	12.2	0	96	50 - 150%	PASS			
PCB037	NA	11.2	1	5	ng/dry g	12.2	0	92	50 - 150%	PASS			
PCB044	NA	11.3	1	5	ng/dry g	12.2	0	93	50 - 150%	PASS			
PCB049	NA	11.5	1	5	ng/dry g	12.2	0	94	50 - 150%	PASS			
PCB052	NA	11	1	5	ng/dry g	12.2	0	90	50 - 150%	PASS			
PCB056(060)	NA	11.6	1	5	ng/dry g	12.2	0	95	50 - 150%	PASS			
PCB066	NA	11.6	1	5	ng/dry g	12.2	0	95	50 - 150%	PASS			
PCB070	NA	12.2	1	5	ng/dry g	12.2	0	100	50 - 150%	PASS			
PCB074	NA	11.6	1	5	ng/dry g	12.2	0	95	50 - 150%	PASS			
PCB077	NA	12.1	1	5	ng/dry g	12.2	0	99	50 - 150%	PASS			
PCB081	NA	11.9	1	5	ng/dry g	12.2	0	98	50 - 150%	PASS			
PCB087	NA	11.9	1	5	ng/dry g	12.2	0	98	50 - 150%	PASS			
PCB095	NA	12.5	1	5	ng/dry g	12.2	0	102	50 - 150%	PASS			
PCB097	NA	12.9	1	5	ng/dry g	12.2	0	106	50 - 150%	PASS			
PCB099	NA	12.3	1	5	ng/dry g	12.2	0	101	50 - 150%	PASS			
PCB101	NA	12.7	1	5	ng/dry g	12.2	0	104	50 - 150%	PASS			
PCB105	NA	12.7	1	5	ng/dry g	12.2	0	104	50 - 150%	PASS			
PCB110	NA	12.6	1	5	ng/dry g	12.2	0	103	50 - 150%	PASS			
PCB114	NA	11.1	1	5	ng/dry g	12.2	0	91	50 - 150%	PASS			
PCB118	NA	12.9	1	5	ng/dry g	12.2	0	106	50 - 150%	PASS			
PCB119	NA	13.1	1	5	ng/dry g	12.2	0	107	50 - 150%	PASS			
PCB123	NA	12.1	1	5	ng/dry g	12.2	0	99	50 - 150%	PASS			
PCB126	NA	10.1	1	5	ng/dry g	12.2	0	83	50 - 150%	PASS			
PCB128	NA	9.3	1	5	ng/dry g	12.2	0	76	50 - 150%	PASS			
PCB138	NA	9.5	1	5	ng/dry g	12.2	2	61	50 - 150%	PASS			

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB141	NA	10.8	1	5	ng/dry g	12.2	0	89	50 - 150%	PASS				
PCB149	NA	13.3	1	5	ng/dry g	12.2	0.5	105	50 - 150%	PASS				
PCB151	NA	12.6	1	5	ng/dry g	12.2	0	103	50 - 150%	PASS				
PCB153	NA	12.5	1	5	ng/dry g	12.2	0	102	50 - 150%	PASS				
PCB156	NA	10.3	1	5	ng/dry g	12.2	0	84	50 - 150%	PASS				
PCB157	NA	9.8	1	5	ng/dry g	12.2	0	80	50 - 150%	PASS				
PCB158	NA	9.8	1	5	ng/dry g	12.2	0	80	50 - 150%	PASS				
PCB167	NA	10.3	1	5	ng/dry g	12.2	0	84	50 - 150%	PASS				
PCB168+132	NA	21.5	1	5	ng/dry g	24.4	0	88	50 - 150%	PASS				
PCB169	NA	10.3	1	5	ng/dry g	12.2	0	84	50 - 150%	PASS				
PCB170	NA	12.3	1	5	ng/dry g	12.2	0.5	97	50 - 150%	PASS				
PCB174	NA	12	1	5	ng/dry g	12.2	0	98	50 - 150%	PASS				
PCB177	NA	11.9	1	5	ng/dry g	12.2	0	98	50 - 150%	PASS				
PCB180	NA	12.4	1	5	ng/dry g	12.2	0.8	95	50 - 150%	PASS				
PCB183	NA	10.2	1	5	ng/dry g	12.2	0	84	50 - 150%	PASS				
PCB187	NA	12	1	5	ng/dry g	12.2	0	98	50 - 150%	PASS				
PCB189	NA	12.6	1	5	ng/dry g	12.2	0	103	50 - 150%	PASS				
PCB194	NA	13.2	1	5	ng/dry g	12.2	0	108	50 - 150%	PASS				
PCB195	NA	12.5	1	5	ng/dry g	12.2	0	102	50 - 150%	PASS				
PCB199(200)	NA	10.2	1	5	ng/dry g	12.2	0	84	50 - 150%	PASS				
PCB201	NA	12.6	1	5	ng/dry g	12.2	0	103	50 - 150%	PASS				
PCB206	NA	13.2	1	5	ng/dry g	12.2	0	108	50 - 150%	PASS				
PCB209	NA	13	1	5	ng/dry g	12.2	0	107	50 - 150%	PASS				

Sample ID: 29131-MS2 **Boat Ramp Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

PCB003	NA	10.4	1	5	ng/dry g	11.5	0	90	50 - 150%	PASS	6	30	PASS	
PCB008	NA	10.2	1	5	ng/dry g	11.5	0	89	50 - 150%	PASS	7	30	PASS	
PCB018	NA	10.9	1	5	ng/dry g	11.5	0	95	50 - 150%	PASS	5	30	PASS	
PCB028	NA	7.7	1	5	ng/dry g	11.5	0	67	50 - 150%	PASS	40	30	FAIL	R
PCB031	NA	7.1	1	5	ng/dry g	11.5	0	62	50 - 150%	PASS	15	30	PASS	
PCB033	NA	11.3	1	5	ng/dry g	11.5	0	98	50 - 150%	PASS	2	30	PASS	

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PCB Congeners QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB037	NA	13.2	1	5	ng/dry g	11.5	0	115	50 - 150%	PASS	22	30	PASS	
PCB044	NA	10.5	1	5	ng/dry g	11.5	0	91	50 - 150%	PASS	2	30	PASS	
PCB049	NA	11.4	1	5	ng/dry g	11.5	0	99	50 - 150%	PASS	5	30	PASS	
PCB052	NA	10.7	1	5	ng/dry g	11.5	0	93	50 - 150%	PASS	3	30	PASS	
PCB056(060)	NA	10.7	1	5	ng/dry g	11.5	0	93	50 - 150%	PASS	2	30	PASS	
PCB066	NA	11.3	1	5	ng/dry g	11.5	0	98	50 - 150%	PASS	3	30	PASS	
PCB070	NA	11.2	1	5	ng/dry g	11.5	0	97	50 - 150%	PASS	3	30	PASS	
PCB074	NA	11.8	1	5	ng/dry g	11.5	0	103	50 - 150%	PASS	8	30	PASS	
PCB077	NA	11	1	5	ng/dry g	11.5	0	96	50 - 150%	PASS	3	30	PASS	
PCB081	NA	11	1	5	ng/dry g	11.5	0	96	50 - 150%	PASS	2	30	PASS	
PCB087	NA	11.5	1	5	ng/dry g	11.5	0	100	50 - 150%	PASS	2	30	PASS	
PCB095	NA	12.3	1	5	ng/dry g	11.5	0	107	50 - 150%	PASS	5	30	PASS	
PCB097	NA	12.2	1	5	ng/dry g	11.5	0	106	50 - 150%	PASS	0	30	PASS	
PCB099	NA	11.6	1	5	ng/dry g	11.5	0	101	50 - 150%	PASS	0	30	PASS	
PCB101	NA	11.9	1	5	ng/dry g	11.5	0	103	50 - 150%	PASS	1	30	PASS	
PCB105	NA	10.5	1	5	ng/dry g	11.5	0	91	50 - 150%	PASS	13	30	PASS	
PCB110	NA	11.5	1	5	ng/dry g	11.5	0	100	50 - 150%	PASS	3	30	PASS	
PCB114	NA	11.1	1	5	ng/dry g	11.5	0	97	50 - 150%	PASS	6	30	PASS	
PCB118	NA	11.9	1	5	ng/dry g	11.5	0	103	50 - 150%	PASS	3	30	PASS	
PCB119	NA	12.4	1	5	ng/dry g	11.5	0	108	50 - 150%	PASS	1	30	PASS	
PCB123	NA	11.8	1	5	ng/dry g	11.5	0	103	50 - 150%	PASS	4	30	PASS	
PCB126	NA	10.2	1	5	ng/dry g	11.5	0	89	50 - 150%	PASS	7	30	PASS	
PCB128	NA	10	1	5	ng/dry g	11.5	0	87	50 - 150%	PASS	13	30	PASS	
PCB138	NA	10.1	1	5	ng/dry g	11.5	2	70	50 - 150%	PASS	14	30	PASS	
PCB141	NA	10.2	1	5	ng/dry g	11.5	0	89	50 - 150%	PASS	0	30	PASS	
PCB149	NA	12.6	1	5	ng/dry g	11.5	0.5	105	50 - 150%	PASS	0	30	PASS	
PCB151	NA	12.7	1	5	ng/dry g	11.5	0	110	50 - 150%	PASS	7	30	PASS	
PCB153	NA	12.5	1	5	ng/dry g	11.5	0	109	50 - 150%	PASS	7	30	PASS	
PCB156	NA	10.8	1	5	ng/dry g	11.5	0	94	50 - 150%	PASS	11	30	PASS	
PCB157	NA	11.6	1	5	ng/dry g	11.5	0	101	50 - 150%	PASS	23	30	PASS	
PCB158	NA	12.2	1	5	ng/dry g	11.5	0	106	50 - 150%	PASS	28	30	PASS	

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PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB167	NA	11	1	5	ng/dry g	11.5	0	96	50 - 150%	PASS	13	30	PASS	
PCB168+132	NA	19.4	1	5	ng/dry g	23	0	84	50 - 150%	PASS	5	30	PASS	
PCB169	NA	9	1	5	ng/dry g	11.5	0	78	50 - 150%	PASS	7	30	PASS	
PCB170	NA	10.6	1	5	ng/dry g	11.5	0.5	88	50 - 150%	PASS	10	30	PASS	
PCB174	NA	11.1	1	5	ng/dry g	11.5	0	97	50 - 150%	PASS	1	30	PASS	
PCB177	NA	11.5	1	5	ng/dry g	11.5	0	100	50 - 150%	PASS	2	30	PASS	
PCB180	NA	12.4	1	5	ng/dry g	11.5	0.8	101	50 - 150%	PASS	6	30	PASS	
PCB183	NA	9.4	1	5	ng/dry g	11.5	0	82	50 - 150%	PASS	2	30	PASS	
PCB187	NA	10.4	1	5	ng/dry g	11.5	0	90	50 - 150%	PASS	9	30	PASS	
PCB189	NA	11.5	1	5	ng/dry g	11.5	0	100	50 - 150%	PASS	3	30	PASS	
PCB194	NA	12.8	1	5	ng/dry g	11.5	0	111	50 - 150%	PASS	3	30	PASS	
PCB195	NA	11.7	1	5	ng/dry g	11.5	0	102	50 - 150%	PASS	0	30	PASS	
PCB199(200)	NA	9.3	1	5	ng/dry g	11.5	0	81	50 - 150%	PASS	4	30	PASS	
PCB201	NA	11.5	1	5	ng/dry g	11.5	0	100	50 - 150%	PASS	3	30	PASS	
PCB206	NA	14.3	1	5	ng/dry g	11.5	0	124	50 - 150%	PASS	14	30	PASS	
PCB209	NA	11.5	1	5	ng/dry g	11.5	0	100	50 - 150%	PASS	7	30	PASS	

Sample ID: 29131-R2 **Boat Ramp Depth 2'** **Matrix: Sediment** **Sampled: 04-Aug-14** **Received: 15-Aug-14**

Method: EPA 8270D Batch ID: O-6090 Prepared: 12-Sep-14 Analyzed: 30-Sep-14

PCB003	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB008	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB018	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB028	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB031	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB033	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB037	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB044	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB049	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB052	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB056(060)	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB066	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB070	NA	ND	1	5	ng/dry g						0	30	PASS	

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PCB Congeners QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB074	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB077	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB081	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB087	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB095	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB097	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB099	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB101	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB105	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB110	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB114	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB118	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB119	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB123	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB126	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB128	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB138	NA	2.2	1	5	ng/dry g						15	30	PASS	J
PCB141	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB149	NA	1	1	5	ng/dry g						0	30	PASS	J
PCB151	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB153	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB156	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB157	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB158	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB167	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB168+132	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB169	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB170	NA	1.1	1	5	ng/dry g						10	30	PASS	J
PCB174	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB177	NA	ND	1	5	ng/dry g						0	30	PASS	
PCB180	NA	1.6	1	5	ng/dry g						46	30	FAIL	J,SL

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PCB Congeners QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB183	NA	ND	1	5	ng/dry g					0	30 PASS	
PCB187	NA	ND	1	5	ng/dry g					0	30 PASS	
PCB189	NA	ND	1	5	ng/dry g					0	30 PASS	
PCB194	NA	ND	1	5	ng/dry g					0	30 PASS	
PCB195	NA	ND	1	5	ng/dry g					0	30 PASS	
PCB199(200)	NA	ND	1	5	ng/dry g					0	30 PASS	
PCB201	NA	ND	1	5	ng/dry g					0	30 PASS	
PCB206	NA	ND	1	5	ng/dry g					0	30 PASS	
PCB209	NA	ND	1	5	ng/dry g					0	30 PASS	

CHAIN OF CUSTODY

PHYSIS
TERRA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Rich Hanken

From: Brady Daniels <BDaniels@aspeneg.com>
Sent: Wednesday, August 27, 2014 8:55 AM
To: Rich Hanken
Subject: RE: Aspen - Fish & Soil?

Rich, I approve the methods proposed for testing if the eleven soil samples.

Thank you
Brady Daniels

Sent from my Android phone using TouchDown (www.nitrodesk.com)

-----Original Message-----
From: Rich Hanken [RichHanken@physislabs.com]
Received: Tuesday, 26 Aug 2014, 1:58PM
To: Brady Daniels [BDaniels@aspeneg.com]
CC: Misty Mercier [MistyMercier@physislabs.com]
Subject: RE: Aspen - Fish & Soil?

Brady,

Thank you.

Since you said you will be remotely for the next several weeks I threw together a COC for those 11 soil/sediment samples, since we are still missing that COC.

I attached the COC and will you be able to review it (this is an excel version just in case you want to make any changes) and either sign it and sent it back to us or if that isn't possible maybe you can just review it and then send back an e-mail Ok'ing the 11 samples being done for:

- Percent Solids
- Mercury
- PCBs
- OCPs

Of course let me know if there is someone else who can speak for you while you are away, if that is easier for you.

Please let me know if you have any questions.

Thank you,

Rich

Richard G. Hanken
Business Manager - Project Integrator
(714) 602-5320 ext. 212
Richhanken@physislabs.com

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addressee, you are not authorized to read, print, retain, copy, or disseminate this message or any part of it. If you have received this email message in error, please immediately notify the sender by return email and delete all copies of this message. Thank you.

From: Brady Daniels [mailto:BDaniels@aspeneg.com]
Sent: Tuesday, August 26, 2014 9:21 AM
To: Rich Hanken
Subject: RE: Aspen - Fish & Soil?

Rich,

I'm working remotely for the next several weeks.

You are correct on the catfish, and all sampling methods for the fish and soil.

Billing address is the agoura hills office.
I will get contact for our accounting representative to you today.

Thank you

Sent from my Android phone using TouchDown (www.nitrodesk.com)

-----Original Message-----
From: Rich Hanken [RichHanken@physislabs.com]
Received: Tuesday, 26 Aug 2014, 9:57AM
To: Brady Daniels [BDaniels@aspeneg.com]
CC: Misty Mercier [MistyMercier@physislabs.com]
Subject: RE: Aspen - Fish & Soil?

Hi Brady,

We are still waiting to resolve a few questions (below in the e-mail).

Please answer the below questions as soon as possible and let us know if you have any questions.

Thank you,

Rich

Richard G. Hanken
Business Manager - Project Integrator
(714) 602-5320 ext. 212
Richhanken@physislabs.com

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From: Rich Hanken
Sent: Wednesday, August 20, 2014 9:13 AM
To: 'Brady Daniels'
Cc: MistyMercier@Physislabs.com; project managers
Subject: Aspen - Fish & Soil?

Hello Brady,

I just wanted to remind you that we haven't received the second COC for the soil samples yet. Can you scan it and send it our way?

I also have a few quick questions.

1. The fish COC says "one whole bass sample, one bass skinless fillet, one gold fish skinless fillet, and one bass skinless fillet". – the last skinless bass is the 3rd bass so it is really the skinless white catfish, right?
2. There are no analyses on the COC for the Fish so can I go off the analyses that you were talking with Misty about?
    a. Mercury
    b. Organochlorine Pesticides (includes those legacy pesticides like the DDTs).
    c. PCB Congeners
3. Do you want anything else analyzed?
4. Are these analyses the same for the soil samples?
5. Can you give me the billing information (which is - who will be billed, their address, e-mail and phone number, etc..)

Please let me know if you have any questions.

Thanks,

Rich

Richard G. Hanken
Business Manager - Project Integrator
(714) 602-5320 ext. 212
Richhanken@physislabs.com

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ENVIRONMENTAL LABORATORIES, INC.

CHAIN of CUSTODY

COMPANY NAME: Aspen Enviornmental Group	EMAIL: Bdaniels@aspeneg.com	PROJECT NAME / NUMBER: Little Rock 1116.02	COC PAGE: 2 of 2
PROJECT MANAGER: Negar Vahidi	FAX:	PO #:	PHYSIS SOS #:
COMPANY ADDRESS: 5020 Chesebro Road, Suite 200, Agoura Hills, CA 91301	PHONE: 818-338-6625 office; 805-878-5958 cell	SAMPLED BY: Brady Daniels, Justin Wood	TYPE OF ICE USED: ☑ WET ☐ BLUE ☐ DRY
			SHIPPED VIA: ☑ FEDEX ☐ UPS ☐ USPS ☐ Client ☐ Physis ☐ other

TURNAROUND TIME: ☑ STANDARD (15-20 business days) ☐ RUSH business days

REPORT FORMAT: ☐ PDF ☐ SWAMP EDD ☐ other

SPECIAL INSTRUCTIONS: PHYSIS PDF/EDD

PHYSIS MATRIX CODES
SW = seawater FW = freshwater RW = rainwater
WW = wastewater DW = drinking water
S = sediment T = tissue E = extract O = other (specify)

REQUESTED ANALYSES

PLEASE SEE PHYSIS SOS

	SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE date	SAMPLE time	physis matrix code	# of bottles	Percent Solids	PCB Congeners	Organochlorine Pesticides	Mercury
1	L.R. Rocky Pt.	Surface	8/4/14		S	1	x	x	x	x
2	L.R. Rocky Pt.	Depth 1'	8/4/14		S	1	x	x	x	x
3	Boat Ramp	Surface	8/4/14		S	1	x	x	x	x
4	Boat Ramp	Depth 2'	8/4/14		S	1	x	x	x	x
5	Fishermans Pt	Surface	8/4/14		S	1	x	x	x	x
6	Fishermans Pt.	Depth 2'	8/4/14		S	1	x	x	x	x
7	Little Rock Drainage	Surface	8/4/14		S	1	x	x	x	x
8	LR & Santiago Above	Depth 1'	8/4/14		S	1	x	x	x	x
9	Waters Edge	Surface	8/5/14		S	1	x	x	x	x
10	Waters Edge	Depth 2'	8/5/14		S	1	x	x	x	x
11	Below Dam	Surface	8/5/14		S	1	x	x	x	x

RELINQUISHED BY print	signature	company	date & time	RECEIVED BY print	signature	company	date & time

PHYSIS
TERRA FAUNA FLORA AQUA AIRA
ENVIRONMENTAL LABORATORIES, INC.

CHAIN of CUSTODY

COMPANY NAME: Aspen Environmental Group	EMAIL: Bdaniels@aspeneg.com	PROJECT NAME / NUMBER: Little Rock 1116.02	COC PAGE: 1 of
PROJECT MANAGER: Negar Vahidi	FAX:	PO #: / PHYSIS SOS #:	TYPE OF ICE USED: ☑ WET ☑ BLUE ☐ DRY
COMPANY ADDRESS: 5020 Chesebro Road, Suite 200 Agoura Hills, CA 91301	PHONE: 818 338-6625 office; 805-878-5958 cell	SAMPLED BY: Brady Daniels, Justin Wood	SHIPPED VIA: ☑ FEDEX ☐ UPS ☐ USPS ☐ Client ☐ Physis ☐ other

TURNAROUND TIME: ☑ STANDARD (15-20 business days) ☐ RUSH business days

REPORT FORMAT: ☐ PHYSIS PDF/EDD ☐ SWAMP EDD ☐ other

SPECIAL INSTRUCTIONS

All of the fish are currently frozen whole fish. We would like one whole bass sample, one bass skinless fillet, one gold fish skinless fillet, and one bass skinless fillet.

PHYSIS MATRIX CODES

SW = seawater **FW** = freshwater **RW** = rainwater
WW = wastewater **DW** = drinking water
S = sediment **T** = tissue **E** = extract **O** = other (specify)

REQUESTED ANALYSES

PLEASE SEE PHYSIS SOS

	SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE date	SAMPLE time	physis matrix code	# of bottles
1	Bass 1	whole bass	8/4/14	15:30	FW	Fish
2	Bass 2	whole bass	8/4/14	15:30	FW	
3	goldfish	whole fish	8/4/14	15:30	FW	
4	white catfish whole fish	whole fish	8/4/14	15:30	FW	
5						
6						
7						
8						
9						
10						

RELINQUISHED BY print	signature	company	date & time	RECEIVED BY print	signature	company	date & time
Brady Daniels	[signature]	Aspen	8-14-14	Richard Hanker	[signature]	Physis	8/15/14 930

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.

PHYSIS PROJECT ID
1407007-001

SAMPLE RECEIPT SUMMARY

CLIENT: Aspen Date Received: Aug 15, 2014 Received By: RGH Inspected By: RGH

COURIER

☐ PHYSIS ☐ CLIENT ☑ FEDEX ☐ UPS
start ____ end ____ ☐ OTHER: _____

COOLER

☑ COOLER ☐ BOX total # 2
☐ OTHER: _____

TEMPERATURE

1.5 °C ☐ WET ICE ☑ BLUE ICE ☐ DRY ICE ☐ NONE

SAMPLE INTEGRITY UPON RECEIPT

1. COC(s) included and completely filled out..... *YES*
2. All sample containers arrived intact..... *YES*
3. All samples listed on COC(s) are present..... *YES*
4. Information on containers consistent with information on COC(s)..... *YES*
5. Correct containers and volume for all analyses indicated..... *YES*
6. All samples received within method holding time..... *YES*
7. Correct preservation used for all analyses indicated..... *YES*
8. Name of sampler included on COC(s)..... *YES*

NOTES

Reset Form

1904 E. Wright Circle, Anaheim CA 92806 (714) 602-5320 main / (714) 602-5321 fax

Print Form

APPENDIX D - SUMMARY OF ANALYTICAL REPORT FOR LITTLEROCK RESERVOIR SAMPLES

Both sediments and fish tissue from Littlerock Reservoir were sampled on August 4, 2014. Fifteen samples, including 11 sediment samples and 4 fish tissue samples, were collected and analyzed for the presence of mercury, chlorinated pesticides, and PCB congeners. The sampling results contained in the analytical report are summarized below. Where appropriate, these results are analyzed in relation to their potential impact on the affected environment.

Sediment

For chlorinated pesticides (including DDT), no analyte was detected at or above the method detection limit (MDL). For PCB congeners, one analyte (PCB138) was detected in three of the 11 samples. However, the amount of PCB138 that was detected is extremely small. The three sample results range from 1.1 to 1.9 parts per billion (ppb). The MDL for this analyte is 1.0 ppb, and the reporting limit (RL) is 5.0 ppb. Because the three positive results for PCB138 in sediment all fall below the RL, the values reported are estimates. All 11 sediment samples tested positive for the presence of mercury. Mercury was analyzed as total mercury (Hg), and the element was not speciated in this analysis. Therefore, it is unknown what percentage of this mercury is organic mercury versus methylmercury. The sample results range from 0.0032 to 0.0213 parts per million (ppm). The Agency for Toxic Substances and Disease Registry reports that normal levels of mercury in soil range from 0.02 to 0.625 ppm (ATSDR, 1999). All but one of the sediment sample results fall below the lower value of this range, and the one result that falls within this range lies at the extreme lower end of the range. A recent peer-reviewed synthesis study defined a critical upper limit for mercury in soils below which 95% of the 52 species sampled (including plants, animals, and microbes) would be unharmed by chronic exposure. This limit was found to be 0.13 ppm (Tipping et al, 2010). All 11 sediment sampling results are roughly an order of magnitude below this critical upper limit.

Fish Tissue

For chlorinated pesticides, all four fish tissue samples tested positive for several analytes, including: 2,4'-DDT; 4,4'-DDD; 4,4'-DDE; Chlordane-alpha; Chlordane-gamma; cis-Nonachlor; and trans-Nonachlor. In addition to the analytes listed above, the goldfish tested positive for Hexachlorobenzene. With the exception of the goldfish, only the results for DDT, DDD, and DDE exceed the reporting limit. The highest reported values were found in the goldfish, which contained 146.2 ppb of 2,4'-DDT and 230.9 ppb of 4,4'-DDT. All four fish tissue samples tested positive for PCB congeners. However, with the exception of several positive analytes in the goldfish and one analyte (PCB138) in one of the bass, all results fell below the reporting limit. PCB138 in one of the bass was just barely above the reporting limit (5.1 ppb for a RL of 5.0 ppb). The highest level of pollutant in the goldfish was 32.9 ppb for PCB138. All four fish tissue samples tested positive for mercury. The results range from 0.3644 to 0.6601 ppm. The highest values were found in the bass. The EPA and FDA require that fish sold across state lines contain less than 1.0 ppm of mercury (ATSDR, 1999). All four samples fall below this level. The USEPA Office of Environmental Health Hazard Assessment has recently provided Advisory Tissue Levels for contaminants in fish intended for human consumption. These levels are expressed in parts per billion, and are listed in the table below. In order to allow for direct comparison, the sampling results for mercury are provided here in ppb, and range from 364.4 to 660.1. The level of mercury detected in both bass samples exceeds the "No Consumption" limit for children and women of child-bearing age (OEHHA, 2009).

Advisory Tissue Levels (ATLs) for PCBs, DDTs, and Methylmercury Based on Cancer or Non-Cancer Risk Using an 8-Ounce Serving Size (Prior to Cooking) (ppb, wet weight)				
Contaminant	Three 8-ounce Servings* a Week	Two 8-ounce Servings* a Week	One 8-ounce Servings* a Week	No Consumption
DDTs	≤520	>520-1,000	>1,000-2,100	>2,100
Methylmercury (Women aged 18-45 years and children aged 1-17 years)	≤70	>70-150	>150-440	>440
Methylmercury (Women over 45-years and men)	≤220	>220-440	>440-1,310	>1,310
PCBs	≤21	>21-42	>42-120	>120

*Serving sizes are based on an average 160 pound person. Individuals weighing less than 160 pounds should eat proportionately smaller amounts (for example, individuals weighing 80 pounds should eat one 4-ounce serving a week when the table recommends eating one 8-ounce serving a week).

Conclusions

The sampling results show that the sediment in Littlerock Reservoir is mostly free of contaminants, and that in cases where a contaminant was detected, the level of contamination is extremely low. Compared to the sediment, the fish tissue samples show a larger number of contaminants and at higher levels. The pathway for contamination of these fish remains unknown.

ATSDR (Agency for Toxic Substances and Disease Registry). 1999. Toxicological profile for Mercury. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

OEHHA (Office of Environmental Health Hazard Assessment, USEPA). 2009. Health Advisory and Safe Eating Guidelines for Fish from Coastal Areas of Southern California: Ventura Harbor to San Mateo Point. [online]: http://oehha.ca.gov/fish/so_cal/pdf_zip/SoCalAdvisoryl61809.pdf. Accessed 9 October 2014.

Tipping, E, et al, Critical Limits for Hg(II) in soils, derived from chronic toxicity data, Environmental Pollution (2010), doi:10.1016/j.envpol.2010.03.027