ENVIRONMENTAL STANDARDS

Setting the Standards for Innovative Environmental Solutions

QUALITY ASSURANCE REVIEW

FOR SAMPLES ASSOCIATED WITH THE

GENERAL ELECTRIC COMPANY HUDSON RIVER PCBs SITE

PHASE 2 REMEDIAL ACTION MONITORING PROGRAM

P2-RAMP-WM-109

April 25, 2018

Prepared for:

GENERAL ELECTRIC COMPANY
320 Great Oaks Office Park
Albany, NY 12203

Prepared by:

ENVIRONMENTAL STANDARDS, INC.
1140 Valley Forge Road
P.O. Box 810
Valley Forge, PA 19482-0810

© 2018 Environmental Standards, Inc. – All Rights Reserved

TABLE OF CONTENTS

Executive Summary

Introduction

Section 1 Quality Assurance Review

A. Organic Data Review

B. Wet Chemistry Data Review

C. Summary

Section 2 Analytical Results

A. SDG 1700918

B. SDG 10388892

C. SDG 10390069

D. SDG 10390779

Section 3 Electronic Data Verification Reports

Section 4 Organic Support Documentation

Section 5 Wet Chemistry Support Documentation

A. SDG 10388892

B. SDG 10390069

C. SDG 10390779

Section 6 Case Narratives and Chain-of-Custody Records

Section 7 Project Correspondence

Executive Summary

This quality assurance (QA) review (# P2RAMP-PACE-WM-109) was performed on congener-specific polychlorinated biphenyls (PCBs) in Sample Delivery Group (SDG) 1700918 and on wet chemistry analytical data in SDGs 10388892, 10390069, and 10390779. The congener-specific PCB data were generated by Vista Analytical Laboratory (Vista), in El Dorado Hills, California, in accordance with the SOP for analysis by US EPA 1668C (SOP 31, Revision 15) included as Attachment 4 of the Hudson River Phase 2 Remedial Action Monitoring Program 2017 Corrective Action Memorandum No. 14 (CAM 14, May 2017) to the Hudson River PCBs Superfund Site Phase 2 Remedial Action Monitoring Quality Assurance Project Plan (Phase 2 RAM QAPP, May 2012). Furthermore, data were generated for total suspended solids (TSS) by Pace Analytical Services, Inc. (Pace) in Minneapolis, Minnesota, in accordance with the SOP for analysis by Standard Method 2540D (modified to be consistent with ASTM Method 3977-97, SOP S-MN-I-528-Rev.15), included as Attachment 1 of CAM 14. These samples were collected from May 12, 2017 through May 31, 2017, as part of the Hudson River PCBs Site Phase 2 Remedial Action Monitoring Program.

All samples included in this QA review have been validated and are identified on Table 1. Environmental Standards, Inc., based the validation on an evaluation of the deliverables provided by the laboratories for SDGs 1700918, 10388892, 10390069, and 10390779.

The data quality for the PCB and wet chemistry results was acceptable; however, the following qualifications were made:

- All PCB results reported at concentrations between the sample-specific method detection limit and reporting limit (adjusted for dilution factors and sample volumes) should be considered estimated.

- The reported positive results for total homologs and total PCBs summed from qualified individual PCB congener concentrations should be considered estimated.

- The reported positive results for TSS in several samples were qualified as estimated due to laboratory duplicate imprecision.

This QA review identified several deliverable issues. These issues did not impact the usability of the results as reported by the laboratory.

Introduction

This quality assurance (QA) review (# P2-RAMP-WM-109) is based upon an examination of data generated from the 15 aqueous samples (including quality control [QC] samples) that were collected from May 12, 2017 through May 31, 2017, as part of the Hudson River PCBs Site Phase 2 Remedial Action Monitoring Program (RAMP).

This QA review was performed on congener-specific polychlorinated biphenyls (PCBs) in Sample Delivery Group (SDG) 1700918 and wet chemistry analytical data in SDGs 10388892, 10390069, and 10390779. The congener-specific PCB data were generated by Vista Analytical Laboratory (Vista), in El Dorado Hills, California, in accordance with the SOP for analysis by US EPA 1668C (SOP 31, Revision 15) included as Attachment 4 of the Hudson River Phase 2 Remedial Action Monitoring Program 2017 Corrective Action Memorandum No. 14 (CAM 14, May 2017) to the Hudson River PCBs Superfund Site Phase 2 Remedial Action Monitoring Quality Assurance Project Plan (Phase 2 RAM QAPP, May 2012). Furthermore, data were generated for total suspended solids (TSS) by Pace Analytical Services, Inc. (Pace) in Minneapolis, Minnesota, in accordance with the SOP for analysis by Standard Method 2540D (modified to be consistent with ASTM Method 3977-97, SOP S-MN-I-528-Rev.15), included as Attachment 1 of CAM 14. These samples were collected from May 12, 2017 through May 31, 2017, as part of the Hudson River PCBs Site Phase 2 Remedial Action Monitoring Program.

All samples included in this QA review have been validated and are identified on Table 1. Environmental Standards, Inc. (Environmental Standards), based the validation on an evaluation of the deliverables provided by the laboratories for SDGs 1700918, 10388892, 10390069, and 10390779.

This critical QA review identifies data quality issues for specific samples and specific evaluation criteria. The data qualifications allow the data end-user to best understand the usability of the analysis results. Data not qualified in this report should be considered valid based on the QC criteria that have been reviewed. The data deliverables were examined for compliance with the procedural and documentation requirements as stipulated in the Phase 2 RAM QAPP.

Data were examined to determine the usability of the analytical results. The reported analytical results are presented on the validated data summary tables in Section 2, which have been generated from the GE Hudson River RAMP database. The “Lab MDL,” “Lab RL,” “Lab Result Value,” and “Lab Qualifier” fields presented on the validated data summary tables were derived directly from the laboratory-provided electronic data deliverable (EDD) that was used to populate the GE Hudson River RAMP database with the analytical results. Errors in the “Lab MDL,” “Lab RL,” and “Lab Result Value” fields noted during validation have been corrected and the corrections are reflected in the “Validated MDL,” “Validated RL,” and “Validated Result Value” fields, respectively, on the validated data summary tables. Verification qualifier codes were placed in the “Ver Qualifier” field during the electronic data verification (EDV) process and are also presented on the validated data summary tables. Validation qualifier codes have been placed in the “Val Qualifier” fields on the data tables to enable the data user to quickly assess the qualitative and/or quantitative reliability of a result based on the criteria evaluated during this QA review. In addition, the “Final Result Qualifier” field has been updated to reflect the validation qualifier codes that override the “Ver Qualifier.” Definitions of the laboratory qualifier codes and verification/validation/final result qualifier codes are presented on the data summary tables.

Section 3 of this report presents the EDV reports associated with the validated samples. Sections 4 and 5 of this report present the Organic Support Documentation and Wet Chemistry Support Documentation, respectively, for this QA review. Section 6 of this report presents copies of the laboratory Case Narratives and Chain-of-Custody Records. Section 7 presents Project Correspondence.

TABLE 1 - SUMMARY OF SAMPLES REVIEWED

General Electric Sample Number	Laboratory Sample Number(s)	SDG(s)	Date Sample Collected	Parameter(s) Examined
OWS-BAFA-T170524112919	1700918-01 10390069001	1700918 10390069	5/24/17	PCB TSS
OWS-FDBL-T170524113005 (Field Blank)	1700918-02	1700918	5/24/17	PCB
OWS-LHAL-T170531110644	1700918-03 10390779001	1700918 10390779	5/26/17	PCB TSS
OWS-LHAL-T170531110644DUP (Laboratory Duplicate)	10390779001DUP	10390779	5/26/17	TSS
OWS-LHPO-T170531110915	1700918-04 10390779002	1700918 10390779	5/26/17	PCB TSS
OWS-ROIS-T170524113548	1700918-05 10390069002	1700918 10390069	5/24/17	PCB TSS
OWS-SCHU-T170524112607	1700918-06 10390069003	1700918 10390069	5/23/17	PCB TSS
OWS-SCHU-T170524112607DUP (Laboratory Duplicate)	10390069003DUP	10390069	5/23/17	TSS
OWS-THIS-T170524112744	1700918-07 10390069004	1700918 10390069	5/23/17	PCB TSS
OWS-WAFO-T170515132332	1700918-08 10388892004	1700918 10388892	5/15/17	PCB TSS
OWS-WAFO-T170524112421	1700918-09 10390069005	1700918 10390069	5/23/17	PCB TSS
OWS-WAFO-T170531111136	1700918-10 10390779003	1700918 10390779	5/31/17	PCB TSS
HFL-SVDB-T170515132020	10388892001	10388892	5/12/17	TSS
HFL-SVDB-T170515132126	10388892002	10388892	5/15/17	TSS
HFL-WAFO-T170515132245	10388892003	10388892	5/12/17	TSS

NOTES:

PCB - Polychlorinated Biphenyl Congeners by US EPA Method 1668C. (10 analyses)
TSS - Total Suspended Solids by Standard Method 2540D. (14 analyses)

Section 1 Quality Assurance Review

A. Organic Data Review

The organic analyses of 10 aqueous samples collected as part of the Hudson River PCBs Site Phase 2 RAMP from May 15, 2017 through May 31, 2017, were performed by Vista. The samples included in this QA review were included in SDG 1700918. The samples were analyzed for PCB congeners by US EPA Method 1668C (CAM 14, Attachment 4). The samples reviewed are identified on Table 1.

Section 3 of this QA review presents the EDV reports for the SDGs included in this QA review. An EDV report is the output of the data verification module of the database program and utilizes the information reported in the laboratory EDDs and the field database. The specific measures evaluated during verification and the associated criteria are addressed in the Phase 2 RAM QAPP and include the measures specified below:

- Holding times
- Accuracy (by evaluating ongoing precision and recovery [OPR] standards recoveries)
- Blank contamination (laboratory method blanks)

The EDV reports in Section 3 include the measures specified above that required qualification. Verification measures, for which qualification was not required using EDV, are not presented in the EDV reports in Section 3. Qualification of data based on validation supersedes qualification based on EDV when there is a discrepancy between the two methods of qualification.

The data validation has been performed with guidance from the SOP for Data Validation of Congener PCB Data (DVNE013_10; Appendix 10.5-5 of the Phase 2 RAM QAPP) and the "National Functional Guidelines for High Resolution Superfund Methods Data Review" (US EPA, April 2016) in consideration of the requirements in Vista SOP 31. The findings offered in this QA review are based upon an evaluation of the complete data package for the following items:

- Sample holding times
- Initial calibration results
- Method and field blank analysis results
- OPR results
- Ion abundance ratios
- Appropriate quantitation of results
- Sample condition upon laboratory receipt
- Continuing calibration verification results
- Labeled standard performance
- Analytical sequence
- Mass calibration
- Qualitative identification

The data reviewer has edited the laboratory-reported data and QC summary forms based on findings cited in this QA review. Furthermore, the data reviewer has included copies of all relevant raw data, QC forms, and other documentation needed to support these edits in the Organic Support Documentation (Section 4) of this QA review.

Deliverable Review

- Environmental Standards worked with Vista personnel to resolve several reporting issues that were summarized in the memorandum "Summary of Data Quality Review of Initial Method 1668C Analysis Data Hudson River Off Season May 2017 Samples" (September 12, 2017; updated October 19, 2017- refer to Project Correspondence). The QA review is based on the revised data package submitted by Vista to incorporate the resolution to these issues.

Procedural Review

1. High recoveries (> 145%) were observed for labeled standard ^{13}C-PCB-209 in samples OWS-LHAL-T170531110644, OWS-LHPO-T170531110915, OWS-ROIS-T170524113548, OWS-SCHU-T170524112607, and OWS-THIS-T170524112744. According to SOP 31 (Section 15.8.4 and 15.8.5), the data should be qualified appropriately if the recovery of each labeled compound is not within the limits on Table 7 of the SOP. The signal-to-noise (S/N) ratios for ^{13}C-PCB-209 in these samples were greater than the minimum requirement of 10; therefore, data quality was not impacted for the native congener (PCB-209), which was quantitated by the isotope dilution method.

2. A number of positive results were observed in SDG 1700918 field blank sample OWS-FDBL-T170524113005, as listed on the EDV report in Section 3. The field blank results were not used to directly qualify investigative sample results. Field blanks were collected at an approximate frequency of once per month while samples are generally collected weekly. As a result, not all 2017 water samples are associated with a field blank. In addition, field blanks collected prior to July 20, 2017, including field blank sample OWS-FDBL-T170524113005, were not prepared using bottles and laboratory water supplied by Vista as the laboratory had not been selected yet. The bottles and laboratory water were supplied by the service center located in the former project laboratory, Pace in Schenectady, New York. The analytical method formerly used by Pace had higher detection limits (DLs) than the PCBs detected in the field blank at Vista. The results of the field blanks collected in 2017 will be used to develop the field blank frequency and procedures for future project work.

Data Usability Evaluation

With respect to data usability, the principal areas of concern are quantitation below the reporting limit (RL) and the reporting convention for total homolog and total PCB results (*i.e.*, summing the estimated individual PCB congener results). Based on a rigorous review of the data provided, the following data qualifiers are offered. The following data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the Phase 2 RAM QAPP data validation SOP specifies areas of the data that require qualification, yet the analytical SOP used for analysis may not require corrective action. Accordingly, the following data usability issues should not be construed as an indication of laboratory performance.

Organic Data Qualifiers

- Although there is no direct reason to question the reported positive result for PCB-194 in sample OWS-THIS-T170524112744, a similar concentration of this congener was observed in the associated preparation blank and the blank result was flagged “UM” by the laboratory indicating an estimated maximum possible concentration. The blank result flagged “UM” was not used to qualify sample data; however, caution should be exercised when using this result in a decision-making process, such as risk assessment.

- According to project-specific reporting requirements, all results reported at concentrations between the sample-specific DL and RL (adjusted for sample volumes) should be considered estimated and have been flagged “J” on the data tables.

- The reported positive results for total homologs and total PCBs summed from estimated individual PCB congener concentrations should be considered estimated and have been flagged “J” on the data tables.

B. Wet Chemistry Data Review

The wet chemistry analyses of 14 aqueous samples (including QC samples) collected as part of the Hudson River PCBs Site Phase 2 RAMP from May 12, 2017 through May 31, 2017, were performed by Pace in Minneapolis, Minnesota. The samples included in this QA review were included in SDGs 10388892, 10390069, and 10390779. The samples were analyzed for TSS by Standard Method 2540D by (modified to be consistent with ASTM Method 3977-97, CAM 14 Attachment 1). The samples reviewed are identified on Table 1.

Section 3 of this QA review presents the EDV reports for the SDGs included in this QA review. An EDV report is the output of the data verification module of the database program and utilizes the information reported in the laboratory EDDs and the field database. The specific measures evaluated during verification and the associated criteria are addressed in the Phase 2 RAM QAPP and include the measures specified below:

- Holding times
- Accuracy (by evaluating laboratory control sample [LCS] recovery)
- Precision (by evaluating laboratory duplicate results)
- Blank contamination (laboratory method blanks)

The EDV reports in Section 3 include the measures specified above that required qualification. Verification measures, for which qualification was not required using EDV, are not presented in the EDV reports in Section 3. Qualification of data based on validation supersedes qualification based on EDV when there is a discrepancy between the two methods of qualification. The data validation has been performed in accordance with the Data Validation SOP for Wet Chemistry Data (DVWETCHEM; Appendix 10.5-4 of the Phase 2 RAM QAPP). The findings offered in this QA review are based upon an evaluation of the complete data packages for the following items:

- Sample holding times
- Method blank analysis results
- LCS results
- Qualitative identification
- Sample condition upon laboratory receipt
- Appropriate quantitation of results
- Laboratory duplicate sample precision

The data reviewer has edited the laboratory-reported data and QC summary forms based on findings cited in this QA review. Furthermore, the data reviewer has included copies of all relevant raw data, QC forms, and other documentation needed to support these edits in the Wet Chemistry Support Documentation (Section 5) of this QA review.

Deliverable Review

1. The EDV process qualified TSS results in several samples in SDGs 10390069 and 10390779 for holding times of 7.125-7.25 days, which exceed the maximum holding time of 7 days. As the holding time for TSS is measured in days and not hours, these samples are considered to be within specification of 7 days from collection based solely on dates (SOP S-NY-I-117-REV.09; Appendix A2-10 of the March 2016 revision of Attachment A to the Phase 2 RAM QAPP). The qualification was removed from the data tables included in Section 2.

2. According to the Form XII Preparation Log summary, samples had an initial volume of ~1000 mL and a final volume of 500 mL. The laboratory was contacted for clarification and stated that, as required, the entire supplied sample volume (~1000 mL) is used for analysis and entered as the initial volume. The final volume of 500 mL is set in the laboratory's system for low-level TSS and is not updated for individual samples (refer to Project Correspondence).

3. According to the Form IX Method Detection Limits summary, the practical quantitation limit (PQL) is 2.0 mg/L (used as the RL) and the method detection limit (MDL) is 1.0 mg/L. The laboratory was contacted for clarification as the results were reported with the required PQL that is half this amount (1.0 mg/L). According to laboratory personnel, the standard PQL (2.0 mg/L) and MDL (1.0 mg/L) are set in the laboratory's system based on an initial filtered volume of 500 mL and are adjusted up or down based on the actual initial volume filtered. The actual PQL for individual samples are calculated as the standard PQL multiplied by the ratio of Final Volume to Initial Volume (refer to Project Correspondence).

Procedural Review

- Procedural issues were not identified during this data review.

Data Usability Evaluation

With respect to data usability, the principal area of concern is laboratory duplicate imprecision. Based on a rigorous review of the data provided, the following data qualifier is offered. The following data usability issue represents an interpretation of the QC results obtained for the project

samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the Phase 2 RAM QAPP data validation SOP specifies areas of the data that require qualification, yet the analytical SOPs used for analysis may not require corrective action. Accordingly, the following data usability issue should not be construed as an indication of laboratory performance.

Wet Chemistry Data Qualifier

- The positive results for TSS in all SDG 10390779 samples should be considered estimated and have been flagged “J” on the data tables. Poor precision (the relative percent difference [RPD] was > 20% when both results were > 5× the RL) was observed between the TSS results in the laboratory duplicate analysis.

C. Summary

This QA review has identified aspects of the data that required qualification. Overall, the analytical data are acceptable for use as reported by the laboratory, with the following qualifications. Several results were qualified due to results reported at concentrations between the sample-specific DL and RL, the reporting convention for total homolog and total PCB results (*i.e*., summing the estimated individual PCB congener results), and laboratory duplicate imprecision. In order to use any of the data, the data user should understand the qualifications and limitations as specified in this QA review.

Report Prepared by,

Thomas H. Weinmann
Senior Quality Assurance Chemist

Report Reviewed by,

Meg A. Michell, M.S.
Senior Technical Chemist/
Project Manager

Report Reviewed and Approved by,

David R. Blye, CEAC
Principal Chemist

ENVIRONMENTAL STANDARDS, INC.
1140 Valley Forge Road
P.O. Box 810
Valley Forge, PA 19482-0810

(610) 935-5577

Date: 4/25/18

SECTION 2

ANALYTICAL RESULTS

A. SDG 1700918

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Decachlorobiphenyl	2051-24-3		0.000369	0.0001	U	U		0.000369	0.0001	U	U	N
Dichlorobiphenyl	25512-42-9	0.104	0.00001	0.0001			0.104	0.00001	0.0001			Y
Heptachlorobiphenyl	28655-71-2	0.00609	0.00001	0.0001			0.00609	0.00001	0.0001	J	J	Y
Hexachlorobiphenyl	26601-64-9	0.0261	0.00001	0.0001			0.0261	0.00001	0.0001	J	J	Y
Monochlorobiphenyl	27323-18-8	0.0087	0.00001	0.0001			0.0087	0.00001	0.0001	J	J	Y
Nonachlorobiphenyl	53742-07-7	0.00051	0.00001	0.0001			0.00051	0.00001	0.0001	J	J	Y
Octachlorobiphenyl	55722-26-4		0.000751	0.0001	UM	UM		0.000751	0.0001	UM	UM	N
PCB-001	PCB-001	0.00781	0.00001	0.0052			0.00781	0.00001	0.0052			Y
PCB-002	PCB-002		0.000984	0.0052	U	U		0.000984	0.0052	U	U	N
PCB-003	PCB-003	0.000883	0.00001	0.0052	J	J	0.000883	0.00001	0.0052	J	J	Y

Laboratory Qualifier Definitions:

U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.

UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.

B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.

J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:

U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.

UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.

J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).

N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.

R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.

UR-Unusable "not-detected" result; compound may or may not be present in this sample.

UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-004/010	PCB-004/010	0.0308	0.00001	0.0104			0.0308	0.00001	0.0104			Y
PCB-005/008	PCB-005/008	0.0258	0.00001	0.0104			0.0258	0.00001	0.0104			Y
PCB-006	PCB-006	0.0059	0.00001	0.0052			0.0059	0.00001	0.0052			Y
PCB-007/009	PCB-007/009		0.0032	0.0104	U	U		0.0032	0.0104	U	U	N
PCB-011	PCB-011	0.00669	0.00001	0.0052			0.00669	0.00001	0.0052			Y
PCB-012/013	PCB-012/013		0.00418	0.0104	U	U		0.00418	0.0104	U	U	N
PCB-014	PCB-014		0.00219	0.0052	U	U		0.00219	0.0052	U	U	N
PCB-015	PCB-015	0.0345	0.00001	0.0052			0.0345	0.00001	0.0052			Y
PCB-016/032	PCB-016/032	0.0546	0.00001	0.0104			0.0546	0.00001	0.0104			Y
PCB-017	PCB-017	0.0256	0.00001	0.0052			0.0256	0.00001	0.0052			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-018	PCB-018	0.0583	0.00001	0.0052			0.0583	0.00001	0.0052			Y
PCB-019	PCB-019	0.0168	0.00001	0.0052			0.0168	0.00001	0.0052			Y
PCB-020/021/033	PCB-020/021/033	0.0485	0.00001	0.0156			0.0485	0.00001	0.0156			Y
PCB-022	PCB-022	0.0336	0.00001	0.0052			0.0336	0.00001	0.0052			Y
PCB-023	PCB-023		0.00169	0.0052	U	U		0.00169	0.0052	U	U	N
PCB-024/027	PCB-024/027	0.0109	0.00001	0.0104			0.0109	0.00001	0.0104			Y
PCB-025	PCB-025	0.00708	0.00001	0.0052			0.00708	0.00001	0.0052			Y
PCB-026	PCB-026	0.0135	0.00001	0.0052			0.0135	0.00001	0.0052			Y
PCB-028	PCB-028	0.0787	0.00001	0.0052			0.0787	0.00001	0.0052			Y
PCB-029	PCB-029		0.00163	0.0052	U	U		0.00163	0.0052	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-030	PCB-030		0.000886	0.0052	U	U		0.000886	0.0052	U	U	N
PCB-031	PCB-031	0.0603	0.00001	0.0052			0.0603	0.00001	0.0052			Y
PCB-034	PCB-034		0.00162	0.0052	U	U		0.00162	0.0052	U	U	N
PCB-035	PCB-035	0.00194	0.00001	0.0052	J	J	0.00194	0.00001	0.0052	J	J	Y
PCB-036	PCB-036		0.00171	0.0052	U	U		0.00171	0.0052	U	U	N
PCB-037	PCB-037	0.0366	0.00001	0.0052			0.0366	0.00001	0.0052			Y
PCB-038	PCB-038		0.00177	0.0052	U	U		0.00177	0.0052	U	U	N
PCB-039	PCB-039		0.00159	0.0052	U	U		0.00159	0.0052	U	U	N
PCB-040	PCB-040	0.0121	0.00001	0.0052			0.0121	0.00001	0.0052			Y
PCB-042/059	PCB-042/059	0.0196	0.00001	0.0104			0.0196	0.00001	0.0104			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-043/049	PCB-043/049	0.0359	0.00001	0.0104			0.0359	0.00001	0.0104			Y
PCB-044	PCB-044	0.0511	0.00001	0.0052			0.0511	0.00001	0.0052			Y
PCB-045	PCB-045	0.0114	0.00001	0.0052			0.0114	0.00001	0.0052			Y
PCB-046	PCB-046		0.00475	0.0052	UM	UM		0.00475	0.0052	UM	UM	N
PCB-047	PCB-047	0.0186	0.00001	0.0052			0.0186	0.00001	0.0052			Y
PCB-048/075	PCB-048/075	0.0107	0.00001	0.0104			0.0107	0.00001	0.0104			Y
PCB-050	PCB-050		0.00116	0.0052	U	U		0.00116	0.0052	U	U	N
PCB-051	PCB-051		0.00363	0.0052	UM	UM		0.00363	0.0052	UM	UM	N
PCB-052/069	PCB-052/069	0.0419	0.00001	0.0104			0.0419	0.00001	0.0104			Y
PCB-053	PCB-053	0.011	0.00001	0.0052			0.011	0.00001	0.0052			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-054	PCB-054		0.000926	0.0052	U	U		0.000926	0.0052	U	U	N
PCB-055	PCB-055	0.00117	0.00001	0.0052	J	J	0.00117	0.00001	0.0052	J	J	Y
PCB-056/060	PCB-056/060	0.0355	0.00001	0.0104			0.0355	0.00001	0.0104			Y
PCB-057	PCB-057		0.000785	0.0052	U	U		0.000785	0.0052	U	U	N
PCB-058	PCB-058		0.000753	0.0052	U	U		0.000753	0.0052	U	U	N
PCB-061/070	PCB-061/070	0.0472	0.00001	0.0104			0.0472	0.00001	0.0104			Y
PCB-062	PCB-062		0.000875	0.0052	U	U		0.000875	0.0052	U	U	N
PCB-063	PCB-063	0.00225	0.00001	0.0052	J	J	0.00225	0.00001	0.0052	J	J	Y
PCB-065	PCB-065		0.000925	0.0052	U	U		0.000925	0.0052	U	U	N
PCB-066/076	PCB-066/076	0.0458	0.00001	0.0104			0.0458	0.00001	0.0104			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-067	PCB-067	0.0024	0.00001	0.0052	J	J	0.0024	0.00001	0.0052	J	J	Y
PCB-068	PCB-068		0.000743	0.0052	U	U		0.000743	0.0052	U	U	N
PCB-073	PCB-073		0.000929	0.0052	U	U		0.000929	0.0052	U	U	N
PCB-074	PCB-074	0.0243	0.00001	0.0052			0.0243	0.00001	0.0052			Y
PCB-077	PCB-077	0.00546	0.00001	0.0052			0.00546	0.00001	0.0052			Y
PCB-078	PCB-078		0.000716	0.0052	U	U		0.000716	0.0052	U	U	N
PCB-079	PCB-079		0.00071	0.0052	U	U		0.00071	0.0052	U	U	N
PCB-080	PCB-080		0.00064	0.0052	U	U		0.00064	0.0052	U	U	N
PCB-081	PCB-081		0.00067	0.0052	U	U		0.00067	0.0052	U	U	N
PCB-082	PCB-082	0.0035	0.00001	0.0052	J	J	0.0035	0.00001	0.0052	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-083	PCB-083		0.000899	0.0052	U	U		0.000899	0.0052	U	U	N
PCB-084/092	PCB-084/092	0.00751	0.00001	0.0104	J	J	0.00751	0.00001	0.0104	J	J	Y
PCB-085/116	PCB-085/116	0.00339	0.00001	0.0104	J	J	0.00339	0.00001	0.0104	J	J	Y
PCB-086	PCB-086		0.00153	0.0052	U	U		0.00153	0.0052	U	U	N
PCB-087/117/125	PCB-087/117/125	0.00588	0.00001	0.0156	J	J	0.00588	0.00001	0.0156	J	J	Y
PCB-088/091	PCB-088/091	0.00308	0.00001	0.0052	J	J	0.00308	0.00001	0.0052	J	J	Y
PCB-089	PCB-089		0.00137	0.0052	U	U		0.00137	0.0052	U	U	N
PCB-090/101	PCB-090/101	0.0141	0.00001	0.0104			0.0141	0.00001	0.0104			Y
PCB-093	PCB-093		0.00148	0.0052	U	U		0.00148	0.0052	U	U	N
PCB-094	PCB-094		0.00139	0.0052	U	U		0.00139	0.0052	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-095/098/102	PCB-095/098/102	0.0147	0.00001	0.0156	J	J	0.0147	0.00001	0.0156	J	J	Y
PCB-096	PCB-096		0.00109	0.0052	U	U		0.00109	0.0052	U	U	N
PCB-097	PCB-097		0.0044	0.0052	UM	UM		0.0044	0.0052	UM	UM	N
PCB-099	PCB-099	0.00735	0.00001	0.0052			0.00735	0.00001	0.0052			Y
PCB-100	PCB-100		0.0012	0.0052	U	U		0.0012	0.0052	U	U	N
PCB-103	PCB-103		0.00119	0.0052	U	U		0.00119	0.0052	U	U	N
PCB-104	PCB-104		0.000963	0.0052	U	U		0.000963	0.0052	U	U	N
PCB-105	PCB-105	0.00906	0.00001	0.0052			0.00906	0.00001	0.0052			Y
PCB-106/118	PCB-106/118	0.0136	0.00001	0.0104			0.0136	0.00001	0.0104			Y
PCB-107/109	PCB-107/109		0.000841	0.0104	U	U		0.000841	0.0104	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-108/112	PCB-108/112		0.00107	0.0104	U	U		0.00107	0.0104	U	U	N
PCB-110	PCB-110	0.0153	0.00001	0.0052			0.0153	0.00001	0.0052			Y
PCB-111/115	PCB-111/115		0.000822	0.0104	U	U		0.000822	0.0104	U	U	N
PCB-113	PCB-113		0.00102	0.0052	U	U		0.00102	0.0052	U	U	N
PCB-114	PCB-114	0.000559	0.00001	0.0052	J	J	0.000559	0.00001	0.0052	J	J	Y
PCB-119	PCB-119		0.000817	0.0052	U	U		0.000817	0.0052	U	U	N
PCB-120	PCB-120		0.000757	0.0052	U	U		0.000757	0.0052	U	U	N
PCB-121	PCB-121		0.000923	0.0052	U	U		0.000923	0.0052	U	U	N
PCB-122	PCB-122		0.000715	0.0052	U	U		0.000715	0.0052	U	U	N
PCB-123	PCB-123		0.000777	0.0052	U	U		0.000777	0.0052	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-124	PCB-124		0.000837	0.0052	U	U		0.000837	0.0052	U	U	N
PCB-126	PCB-126		0.000689	0.0052	U	U		0.000689	0.0052	U	U	N
PCB-127	PCB-127		0.000719	0.0052	U	U		0.000719	0.0052	U	U	N
PCB-128/162	PCB-128/162	0.00127	0.00001	0.0104	J	J	0.00127	0.00001	0.0104	J	J	Y
PCB-129	PCB-129		0.00102	0.0052	U	U		0.00102	0.0052	U	U	N
PCB-130	PCB-130		0.00114	0.0052	U	U		0.00114	0.0052	U	U	N
PCB-131/133	PCB-131/133		0.00102	0.0104	U	U		0.00102	0.0104	U	U	N
PCB-132/161	PCB-132/161	0.00197	0.00001	0.0104	J	J	0.00197	0.00001	0.0104	J	J	Y
PCB-134/143	PCB-134/143		0.00102	0.0104	U	U		0.00102	0.0104	U	U	N
PCB-135	PCB-135		0.00134	0.0052	U	U		0.00134	0.0052	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-136	PCB-136		0.000926	0.0052	U	U		0.000926	0.0052	U	U	N
PCB-137	PCB-137		0.00092	0.0052	U	U		0.00092	0.0052	U	U	N
PCB-138/163/164	PCB-138/163/164	0.00733	0.00001	0.0156	J	J	0.00733	0.00001	0.0156	J	J	Y
PCB-139/149	PCB-139/149	0.00555	0.00001	0.0104	J	J	0.00555	0.00001	0.0104	J	J	Y
PCB-140	PCB-140		0.00126	0.0052	U	U		0.00126	0.0052	U	U	N
PCB-141	PCB-141	0.001	0.00001	0.0052	J	J	0.001	0.00001	0.0052	J	J	Y
PCB-142	PCB-142		0.00106	0.0052	U	U		0.00106	0.0052	U	U	N
PCB-144	PCB-144		0.00113	0.0052	U	U		0.00113	0.0052	U	U	N
PCB-145	PCB-145		0.000933	0.0052	U	U		0.000933	0.0052	U	U	N
PCB-146/165	PCB-146/165	0.00118	0.00001	0.0104	J	J	0.00118	0.00001	0.0104	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-147	PCB-147		0.00129	0.0052	U	U		0.00129	0.0052	U	U	N
PCB-148	PCB-148		0.00123	0.0052	U	U		0.00123	0.0052	U	U	N
PCB-150	PCB-150		0.000912	0.0052	U	U		0.000912	0.0052	U	U	N
PCB-151	PCB-151		0.00129	0.0052	U	U		0.00129	0.0052	U	U	N
PCB-152	PCB-152		0.000898	0.0052	U	U		0.000898	0.0052	U	U	N
PCB-153	PCB-153	0.00612	0.00001	0.0052			0.00612	0.00001	0.0052			Y
PCB-154	PCB-154		0.00112	0.0052	U	U		0.00112	0.0052	U	U	N
PCB-155	PCB-155		0.000852	0.0052	U	U		0.000852	0.0052	U	U	N
PCB-156	PCB-156	0.000903	0.00001	0.0052	J	J	0.000903	0.00001	0.0052	J	J	Y
PCB-157	PCB-157		0.000666	0.0052	U	U		0.000666	0.0052	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-158/160	PCB-158/160	0.000826	0.00001	0.0104	J	J	0.000826	0.00001	0.0104	J	J	Y
PCB-159	PCB-159		0.000634	0.0052	U	U		0.000634	0.0052	U	U	N
PCB-166	PCB-166		0.000692	0.0052	U	U		0.000692	0.0052	U	U	N
PCB-167	PCB-167		0.000651	0.0052	U	U		0.000651	0.0052	U	U	N
PCB-168	PCB-168		0.000663	0.0052	U	U		0.000663	0.0052	U	U	N
PCB-169	PCB-169		0.000705	0.0052	U	U		0.000705	0.0052	U	U	N
PCB-170	PCB-170		0.00117	0.0052	UM	UM		0.00117	0.0052	UM	UM	N
PCB-171	PCB-171		0.000586	0.0052	U	U		0.000586	0.0052	U	U	N
PCB-172	PCB-172		0.000611	0.0052	U	U		0.000611	0.0052	U	U	N
PCB-173	PCB-173		0.000721	0.0052	U	U		0.000721	0.0052	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-174	PCB-174		0.000863	0.0052	UM	UM		0.000863	0.0052	UM	UM	N
PCB-175	PCB-175		0.00062	0.0052	U	U		0.00062	0.0052	U	U	N
PCB-176	PCB-176		0.000457	0.0052	U	U		0.000457	0.0052	U	U	N
PCB-177	PCB-177	0.000806	0.00001	0.0052	J	J	0.000806	0.00001	0.0052	J	J	Y
PCB-178	PCB-178		0.000631	0.0052	U	U		0.000631	0.0052	U	U	N
PCB-179	PCB-179		0.000496	0.0052	U	U		0.000496	0.0052	U	U	N
PCB-180	PCB-180	0.00268	0.00001	0.0052	J	J	0.00268	0.00001	0.0052	J	J	Y
PCB-181	PCB-181		0.000602	0.0052	U	U		0.000602	0.0052	U	U	N
PCB-182/187	PCB-182/187	0.00189	0.00001	0.0104	J	J	0.00189	0.00001	0.0104	J	J	Y
PCB-183	PCB-183	0.000718	0.00001	0.0052	J	J	0.000718	0.00001	0.0052	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-184	PCB-184		0.000494	0.0052	U	U		0.000494	0.0052	U	U	N
PCB-185	PCB-185		0.000607	0.0052	U	U		0.000607	0.0052	U	U	N
PCB-186	PCB-186		0.000455	0.0052	U	U		0.000455	0.0052	U	U	N
PCB-188	PCB-188		0.000454	0.0052	U	U		0.000454	0.0052	U	U	N
PCB-189	PCB-189		0.000368	0.0052	U	U		0.000368	0.0052	U	U	N
PCB-190	PCB-190		0.000428	0.0052	U	U		0.000428	0.0052	U	U	N
PCB-191	PCB-191		0.000443	0.0052	U	U		0.000443	0.0052	U	U	N
PCB-192	PCB-192		0.000471	0.0052	U	U		0.000471	0.0052	U	U	N
PCB-193	PCB-193		0.000454	0.0052	U	U		0.000454	0.0052	U	U	N
PCB-194	PCB-194		0.000751	0.0052	UM	UM		0.000751	0.0052	UM	UM	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-195	PCB-195		0.000689	0.0052	U	U		0.000689	0.0052	U	U	N
PCB-196/203	PCB-196/203		0.00143	0.0104	U	U		0.00143	0.0104	U	U	N
PCB-197	PCB-197		0.000859	0.0052	U	U		0.000859	0.0052	U	U	N
PCB-198	PCB-198		0.00125	0.0052	U	U		0.00125	0.0052	U	U	N
PCB-199	PCB-199		0.00136	0.0052	U	U		0.00136	0.0052	U	U	N
PCB-200	PCB-200		0.000923	0.0052	U	U		0.000923	0.0052	U	U	N
PCB-201	PCB-201		0.000908	0.0052	U	U		0.000908	0.0052	U	U	N
PCB-202	PCB-202		0.000984	0.0052	U	U		0.000984	0.0052	U	U	N
PCB-204	PCB-204		0.000965	0.0052	U	U		0.000965	0.0052	U	U	N
PCB-205	PCB-205		0.000486	0.0052	U	U		0.000486	0.0052	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	1700918
Sys Sample Code	COC170718120918VISTA-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	1700918-01
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-206	PCB-206	0.00051	0.00001	0.0052	J	J	0.00051	0.00001	0.0052	J	J	Y
PCB-207	PCB-207		0.000337	0.0052	U	U		0.000337	0.0052	U	U	N
PCB-208	PCB-208		0.000344	0.0052	U	U		0.000344	0.0052	U	U	N
PCB-209	PCB-209		0.000369	0.0052	U	U		0.000369	0.0052	U	U	N
PCB-41/64/71/72	PCB-41/64/71/72	0.0544	0.00001	0.0208			0.0544	0.00001	0.0208			Y
Pentachlorobiphenyl	25429-29-2	0.098	0.00001	0.0001			0.098	0.00001	0.0001	J	J	Y
Tetrachlorobiphenyl	26914-33-0	0.43	0.00001	0.0001			0.43	0.00001	0.0001	J	J	Y
Total PCBs	1336-36-3	1.12	0.00001	0.0001		J	1.12	0.00001	0.0001	J	J	Y
Trichlorobiphenyl	25323-68-6	0.446	0.00001	0.0001			0.446	0.00001	0.0001	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Decachlorobiphenyl	2051-24-3		0.000453	0.0001	U	U		0.000453	0.0001	U	U	N
Dichlorobiphenyl	25512-42-9	0.0507	0.00001	0.0001			0.0507	0.00001	0.0001			Y
Heptachlorobiphenyl	28655-71-2		0.000742	0.0001	U	U		0.000742	0.0001	U	U	N
Hexachlorobiphenyl	26601-64-9		0.000853	0.0001	UM	UM		0.000853	0.0001	UM	UM	N
Monochlorobiphenyl	27323-18-8	0.00429	0.00001	0.0001			0.00429	0.00001	0.0001	J	J	Y
Nonachlorobiphenyl	53742-07-7		0.000745	0.0001	U	U		0.000745	0.0001	U	U	N
Octachlorobiphenyl	55722-26-4		0.00155	0.0001	U	U		0.00155	0.0001	U	U	N
PCB-001	PCB-001	0.00429	0.00001	0.00535	J	J	0.00429	0.00001	0.00535	J	J	Y
PCB-002	PCB-002		0.00102	0.00535	U	U		0.00102	0.00535	U	U	N
PCB-003	PCB-003		0.001	0.00535	U	U		0.001	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-004/010	PCB-004/010	0.0132	0.00001	0.0107			0.0132	0.00001	0.0107			Y
PCB-005/008	PCB-005/008	0.0155	0.00001	0.0107			0.0155	0.00001	0.0107			Y
PCB-006	PCB-006		0.00659	0.00659	U	U		0.00659	0.00659	U	U	N
PCB-007/009	PCB-007/009		0.0017	0.0107	U	U		0.0017	0.0107	U	U	N
PCB-011	PCB-011	0.0139	0.00001	0.00535			0.0139	0.00001	0.00535			Y
PCB-012/013	PCB-012/013		0.00246	0.0107	U	U		0.00246	0.0107	U	U	N
PCB-014	PCB-014		0.00196	0.00535	U	U		0.00196	0.00535	U	U	N
PCB-015	PCB-015	0.00805	0.00001	0.00535			0.00805	0.00001	0.00535			Y
PCB-016/032	PCB-016/032	0.0328	0.00001	0.0107			0.0328	0.00001	0.0107			Y
PCB-017	PCB-017	0.0162	0.00001	0.00535			0.0162	0.00001	0.00535			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-018	PCB-018	0.0296	0.00001	0.00535			0.0296	0.00001	0.00535			Y
PCB-019	PCB-019	0.00933	0.00001	0.00535			0.00933	0.00001	0.00535			Y
PCB-020/021/033	PCB-020/021/033	0.0172	0.00001	0.0161			0.0172	0.00001	0.0161			Y
PCB-022	PCB-022	0.0118	0.00001	0.00535			0.0118	0.00001	0.00535			Y
PCB-023	PCB-023		0.00177	0.00535	U	U		0.00177	0.00535	U	U	N
PCB-024/027	PCB-024/027	0.00641	0.00001	0.0107	J	J	0.00641	0.00001	0.0107	J	J	Y
PCB-025	PCB-025		0.00189	0.00535	U	U		0.00189	0.00535	U	U	N
PCB-026	PCB-026		0.00372	0.00535	UM	UM		0.00372	0.00535	UM	UM	N
PCB-028	PCB-028	0.0221	0.00001	0.00535			0.0221	0.00001	0.00535			Y
PCB-029	PCB-029		0.0017	0.00535	U	U		0.0017	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-030	PCB-030		0.00129	0.00535	U	U		0.00129	0.00535	U	U	N
PCB-031	PCB-031	0.0167	0.00001	0.00535			0.0167	0.00001	0.00535			Y
PCB-034	PCB-034		0.00169	0.00535	U	U		0.00169	0.00535	U	U	N
PCB-035	PCB-035		0.00183	0.00535	U	U		0.00183	0.00535	U	U	N
PCB-036	PCB-036		0.00174	0.00535	U	U		0.00174	0.00535	U	U	N
PCB-037	PCB-037	0.00488	0.00001	0.00535	J	J	0.00488	0.00001	0.00535	J	J	Y
PCB-038	PCB-038		0.0018	0.00535	U	U		0.0018	0.00535	U	U	N
PCB-039	PCB-039		0.00162	0.00535	U	U		0.00162	0.00535	U	U	N
PCB-040	PCB-040		0.0028	0.00535	UM	UM		0.0028	0.00535	UM	UM	N
PCB-042/059	PCB-042/059	0.0063	0.00001	0.0107	J	J	0.0063	0.00001	0.0107	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-043/049	PCB-043/049	0.0123	0.00001	0.0107			0.0123	0.00001	0.0107			Y
PCB-044	PCB-044	0.0171	0.00001	0.00535			0.0171	0.00001	0.00535			Y
PCB-045	PCB-045	0.00572	0.00001	0.00535			0.00572	0.00001	0.00535			Y
PCB-046	PCB-046	0.00301	0.00001	0.00535	J	J	0.00301	0.00001	0.00535	J	J	Y
PCB-047	PCB-047	0.00608	0.00001	0.00535			0.00608	0.00001	0.00535			Y
PCB-048/075	PCB-048/075		0.00339	0.0107	UM	UM		0.00339	0.0107	UM	UM	N
PCB-050	PCB-050		0.00132	0.00535	U	U		0.00132	0.00535	U	U	N
PCB-051	PCB-051	0.00273	0.00001	0.00535	J	J	0.00273	0.00001	0.00535	J	J	Y
PCB-052/069	PCB-052/069	0.0137	0.00001	0.0107			0.0137	0.00001	0.0107			Y
PCB-053	PCB-053	0.005	0.00001	0.00535	J	J	0.005	0.00001	0.00535	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-054	PCB-054		0.00105	0.00535	U	U		0.00105	0.00535	U	U	N
PCB-055	PCB-055		0.000819	0.00535	U	U		0.000819	0.00535	U	U	N
PCB-056/060	PCB-056/060	0.00472	0.00001	0.0107	J	J	0.00472	0.00001	0.0107	J	J	Y
PCB-057	PCB-057		0.000885	0.00535	U	U		0.000885	0.00535	U	U	N
PCB-058	PCB-058		0.000848	0.00535	U	U		0.000848	0.00535	U	U	N
PCB-061/070	PCB-061/070	0.00702	0.00001	0.0107	J	J	0.00702	0.00001	0.0107	J	J	Y
PCB-062	PCB-062		0.000969	0.00535	U	U		0.000969	0.00535	U	U	N
PCB-063	PCB-063		0.000832	0.00535	U	U		0.000832	0.00535	U	U	N
PCB-065	PCB-065		0.00103	0.00535	U	U		0.00103	0.00535	U	U	N
PCB-066/076	PCB-066/076	0.00508	0.00001	0.0107	J	J	0.00508	0.00001	0.0107	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-067	PCB-067		0.000897	0.00535	U	U		0.000897	0.00535	U	U	N
PCB-068	PCB-068		0.000824	0.00535	U	U		0.000824	0.00535	U	U	N
PCB-073	PCB-073		0.000954	0.00535	U	U		0.000954	0.00535	U	U	N
PCB-074	PCB-074		0.00286	0.00535	UM	UM		0.00286	0.00535	UM	UM	N
PCB-077	PCB-077		0.000773	0.00535	U	U		0.000773	0.00535	U	U	N
PCB-078	PCB-078		0.000825	0.00535	U	U		0.000825	0.00535	U	U	N
PCB-079	PCB-079		0.000834	0.00535	U	U		0.000834	0.00535	U	U	N
PCB-080	PCB-080		0.000752	0.00535	U	U		0.000752	0.00535	U	U	N
PCB-081	PCB-081		0.000772	0.00535	U	U		0.000772	0.00535	U	U	N
PCB-082	PCB-082		0.00183	0.00535	U	U		0.00183	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-083	PCB-083		0.00114	0.00535	U	U		0.00114	0.00535	U	U	N
PCB-084/092	PCB-084/092	0.00249	0.00001	0.0107	J	J	0.00249	0.00001	0.0107	J	J	Y
PCB-085/116	PCB-085/116		0.00141	0.0107	U	U		0.00141	0.0107	U	U	N
PCB-086	PCB-086		0.00195	0.00535	U	U		0.00195	0.00535	U	U	N
PCB-087/117/125	PCB-087/117/125	0.00111	0.00001	0.0161	J	J	0.00111	0.00001	0.0161	J	J	Y
PCB-088/091	PCB-088/091	0.00147	0.00001	0.00535	J	J	0.00147	0.00001	0.00535	J	J	Y
PCB-089	PCB-089		0.00168	0.00535	U	U		0.00168	0.00535	U	U	N
PCB-090/101	PCB-090/101	0.00287	0.00001	0.0107	J	J	0.00287	0.00001	0.0107	J	J	Y
PCB-093	PCB-093		0.0018	0.00535	U	U		0.0018	0.00535	U	U	N
PCB-094	PCB-094		0.00169	0.00535	U	U		0.00169	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-095/098/102	PCB-095/098/102	0.00518	0.00001	0.0161	J	J	0.00518	0.00001	0.0161	J	J	Y
PCB-096	PCB-096		0.00132	0.00535	U	U		0.00132	0.00535	U	U	N
PCB-097	PCB-097	0.00114	0.00001	0.00535	J	J	0.00114	0.00001	0.00535	J	J	Y
PCB-099	PCB-099	0.00137	0.00001	0.00535	J	J	0.00137	0.00001	0.00535	J	J	Y
PCB-100	PCB-100		0.00144	0.00535	U	U		0.00144	0.00535	U	U	N
PCB-103	PCB-103		0.00143	0.00535	U	U		0.00143	0.00535	U	U	N
PCB-104	PCB-104		0.00116	0.00535	U	U		0.00116	0.00535	U	U	N
PCB-105	PCB-105		0.0015	0.00535	U	U		0.0015	0.00535	U	U	N
PCB-106/118	PCB-106/118	0.00175	0.00001	0.0107	J	J	0.00175	0.00001	0.0107	J	J	Y
PCB-107/109	PCB-107/109		0.00105	0.0107	U	U		0.00105	0.0107	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-108/112	PCB-108/112		0.00136	0.0107	U	U		0.00136	0.0107	U	U	N
PCB-110	PCB-110	0.00296	0.00001	0.00535	J	J	0.00296	0.00001	0.00535	J	J	Y
PCB-111/115	PCB-111/115		0.00104	0.0107	U	U		0.00104	0.0107	U	U	N
PCB-113	PCB-113		0.00125	0.00535	U	U		0.00125	0.00535	U	U	N
PCB-114	PCB-114		0.00154	0.00535	U	U		0.00154	0.00535	U	U	N
PCB-119	PCB-119		0.00104	0.00535	U	U		0.00104	0.00535	U	U	N
PCB-120	PCB-120		0.000961	0.00535	U	U		0.000961	0.00535	U	U	N
PCB-121	PCB-121		0.00112	0.00535	U	U		0.00112	0.00535	U	U	N
PCB-122	PCB-122		0.00169	0.00535	U	U		0.00169	0.00535	U	U	N
PCB-123	PCB-123		0.00105	0.00535	U	U		0.00105	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-124	PCB-124		0.00104	0.00535	U	U		0.00104	0.00535	U	U	N
PCB-126	PCB-126		0.00156	0.00535	U	U		0.00156	0.00535	U	U	N
PCB-127	PCB-127		0.00166	0.00535	U	U		0.00166	0.00535	U	U	N
PCB-128/162	PCB-128/162		0.0008	0.0107	U	U		0.0008	0.0107	U	U	N
PCB-129	PCB-129		0.00105	0.00535	U	U		0.00105	0.00535	U	U	N
PCB-130	PCB-130		0.00114	0.00535	U	U		0.00114	0.00535	U	U	N
PCB-131/133	PCB-131/133		0.00109	0.0107	U	U		0.00109	0.0107	U	U	N
PCB-132/161	PCB-132/161		0.000875	0.0107	U	U		0.000875	0.0107	U	U	N
PCB-134/143	PCB-134/143		0.00108	0.0107	U	U		0.00108	0.0107	U	U	N
PCB-135	PCB-135		0.00153	0.00535	U	U		0.00153	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-136	PCB-136		0.00105	0.00535	U	U		0.00105	0.00535	U	U	N
PCB-137	PCB-137		0.000921	0.00535	U	U		0.000921	0.00535	U	U	N
PCB-138/163/164	PCB-138/163/164		0.000853	0.0161	UM	UM		0.000853	0.0161	UM	UM	N
PCB-139/149	PCB-139/149		0.00173	0.0107	U	U		0.00173	0.0107	U	U	N
PCB-140	PCB-140		0.00151	0.00535	U	U		0.00151	0.00535	U	U	N
PCB-141	PCB-141		0.000939	0.00535	U	U		0.000939	0.00535	U	U	N
PCB-142	PCB-142		0.00112	0.00535	U	U		0.00112	0.00535	U	U	N
PCB-144	PCB-144		0.00137	0.00535	U	U		0.00137	0.00535	U	U	N
PCB-145	PCB-145		0.00112	0.00535	U	U		0.00112	0.00535	U	U	N
PCB-146/165	PCB-146/165		0.000874	0.0107	U	U		0.000874	0.0107	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-147	PCB-147		0.00156	0.00535	U	U		0.00156	0.00535	U	U	N
PCB-148	PCB-148		0.00149	0.00535	U	U		0.00149	0.00535	U	U	N
PCB-150	PCB-150		0.0011	0.00535	U	U		0.0011	0.00535	U	U	N
PCB-151	PCB-151		0.00147	0.00535	U	U		0.00147	0.00535	U	U	N
PCB-152	PCB-152		0.00108	0.00535	U	U		0.00108	0.00535	U	U	N
PCB-153	PCB-153		0.00085	0.00535	U	U		0.00085	0.00535	U	U	N
PCB-154	PCB-154		0.00135	0.00535	U	U		0.00135	0.00535	U	U	N
PCB-155	PCB-155		0.00103	0.00535	U	U		0.00103	0.00535	U	U	N
PCB-156	PCB-156		0.000691	0.00535	U	U		0.000691	0.00535	U	U	N
PCB-157	PCB-157		0.000697	0.00535	U	U		0.000697	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-158/160	PCB-158/160		0.000704	0.0107	U	U		0.000704	0.0107	U	U	N
PCB-159	PCB-159		0.000647	0.00535	U	U		0.000647	0.00535	U	U	N
PCB-166	PCB-166		0.000705	0.00535	U	U		0.000705	0.00535	U	U	N
PCB-167	PCB-167		0.000708	0.00535	U	U		0.000708	0.00535	U	U	N
PCB-168	PCB-168		0.000705	0.00535	U	U		0.000705	0.00535	U	U	N
PCB-169	PCB-169		0.000716	0.00535	U	U		0.000716	0.00535	U	U	N
PCB-170	PCB-170		0.000592	0.00535	U	U		0.000592	0.00535	U	U	N
PCB-171	PCB-171		0.000602	0.00535	U	U		0.000602	0.00535	U	U	N
PCB-172	PCB-172		0.000628	0.00535	U	U		0.000628	0.00535	U	U	N
PCB-173	PCB-173		0.000742	0.00535	U	U		0.000742	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-174	PCB-174		0.000652	0.00535	U	U		0.000652	0.00535	U	U	N
PCB-175	PCB-175		0.000608	0.00535	U	U		0.000608	0.00535	U	U	N
PCB-176	PCB-176		0.000448	0.00535	U	U		0.000448	0.00535	U	U	N
PCB-177	PCB-177		0.0007	0.00535	U	U		0.0007	0.00535	U	U	N
PCB-178	PCB-178		0.000619	0.00535	U	U		0.000619	0.00535	U	U	N
PCB-179	PCB-179		0.000486	0.00535	U	U		0.000486	0.00535	U	U	N
PCB-180	PCB-180		0.00061	0.00535	U	U		0.00061	0.00535	U	U	N
PCB-181	PCB-181		0.000619	0.00535	U	U		0.000619	0.00535	U	U	N
PCB-182/187	PCB-182/187		0.000563	0.0107	U	U		0.000563	0.0107	U	U	N
PCB-183	PCB-183		0.000523	0.00535	U	U		0.000523	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-184	PCB-184		0.000485	0.00535	U	U		0.000485	0.00535	U	U	N
PCB-185	PCB-185		0.000624	0.00535	U	U		0.000624	0.00535	U	U	N
PCB-186	PCB-186		0.000446	0.00535	U	U		0.000446	0.00535	U	U	N
PCB-188	PCB-188		0.000445	0.00535	U	U		0.000445	0.00535	U	U	N
PCB-189	PCB-189		0.000363	0.00535	U	U		0.000363	0.00535	U	U	N
PCB-190	PCB-190		0.000425	0.00535	U	U		0.000425	0.00535	U	U	N
PCB-191	PCB-191		0.000455	0.00535	U	U		0.000455	0.00535	U	U	N
PCB-192	PCB-192		0.000485	0.00535	U	U		0.000485	0.00535	U	U	N
PCB-193	PCB-193		0.000467	0.00535	U	U		0.000467	0.00535	U	U	N
PCB-194	PCB-194		0.000839	0.00535	U	U		0.000839	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-195	PCB-195		0.000922	0.00535	U	U		0.000922	0.00535	U	U	N
PCB-196/203	PCB-196/203		0.00136	0.0107	U	U		0.00136	0.0107	U	U	N
PCB-197	PCB-197		0.000979	0.00535	U	U		0.000979	0.00535	U	U	N
PCB-198	PCB-198		0.00143	0.00535	U	U		0.00143	0.00535	U	U	N
PCB-199	PCB-199		0.00155	0.00535	U	U		0.00155	0.00535	U	U	N
PCB-200	PCB-200		0.00105	0.00535	U	U		0.00105	0.00535	U	U	N
PCB-201	PCB-201		0.00103	0.00535	U	U		0.00103	0.00535	U	U	N
PCB-202	PCB-202		0.00112	0.00535	U	U		0.00112	0.00535	U	U	N
PCB-204	PCB-204		0.0011	0.00535	U	U		0.0011	0.00535	U	U	N
PCB-205	PCB-205		0.00065	0.00535	U	U		0.00065	0.00535	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-002
Sample Id	OWS-FDBL-T170524113005
Sample Start Dt	5/24/2017 9:20:00 AM
Lab Sample Id	1700918-02
Parent Sample Id	
Sample Type Code	FDBL
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-206	PCB-206		0.000745	0.00535	U	U		0.000745	0.00535	U	U	N
PCB-207	PCB-207		0.000471	0.00535	U	U		0.000471	0.00535	U	U	N
PCB-208	PCB-208		0.00048	0.00535	U	U		0.00048	0.00535	U	U	N
PCB-209	PCB-209		0.000453	0.00535	U	U		0.000453	0.00535	U	U	N
PCB-41/64/71/72	PCB-41/64/71/72	0.0129	0.00001	0.0214	J	J	0.0129	0.00001	0.0214	J	J	Y
Pentachlorobiphenyl	25429-29-2	0.0203	0.00001	0.0001			0.0203	0.00001	0.0001	J	J	Y
Tetrachlorobiphenyl	26914-33-0	0.102	0.00001	0.0001			0.102	0.00001	0.0001	J	J	Y
Total PCBs	1336-36-3	0.344	0.00001	0.0001		J	0.344	0.00001	0.0001	J	J	Y
Trichlorobiphenyl	25323-68-6	0.167	0.00001	0.0001			0.167	0.00001	0.0001	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Decachlorobiphenyl	2051-24-3	0.00274	0.00001	0.0001			0.00274	0.00001	0.0001	J	J	Y
Dichlorobiphenyl	25512-42-9	3.62	0.00001	0.0001			3.62	0.00001	0.0001			Y
Heptachlorobiphenyl	28655-71-2	0.0765	0.00001	0.0001			0.0765	0.00001	0.0001	J	J	Y
Hexachlorobiphenyl	26601-64-9	0.298	0.00001	0.0001			0.298	0.00001	0.0001	J	J	Y
Monochlorobiphenyl	27323-18-8	0.258	0.00001	0.0001			0.258	0.00001	0.0001	J	J	Y
Nonachlorobiphenyl	53742-07-7	0.00414	0.00001	0.0001			0.00414	0.00001	0.0001	J	J	Y
Octachlorobiphenyl	55722-26-4	0.0189	0.00001	0.0001			0.0189	0.00001	0.0001	J	J	Y
PCB-001	PCB-001	0.228	0.00001	0.00504			0.228	0.00001	0.00504			Y
PCB-002	PCB-002	0.00234	0.00001	0.00504	J	J	0.00234	0.00001	0.00504	J	J	Y
PCB-003	PCB-003	0.0277	0.00001	0.00504			0.0277	0.00001	0.00504			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-004/010	PCB-004/010	3.2	0.00001	0.0101			3.2	0.00001	0.0101			Y
PCB-005/008	PCB-005/008	0.134	0.00001	0.0101			0.134	0.00001	0.0101			Y
PCB-006	PCB-006	0.0471	0.00001	0.00504			0.0471	0.00001	0.00504			Y
PCB-007/009	PCB-007/009	0.0147	0.00001	0.0101			0.0147	0.00001	0.0101			Y
PCB-011	PCB-011	0.0206	0.00001	0.00504			0.0206	0.00001	0.00504			Y
PCB-012/013	PCB-012/013	0.0287	0.00001	0.0101			0.0287	0.00001	0.0101			Y
PCB-014	PCB-014		0.00198	0.00504	U	U		0.00198	0.00504	U	U	N
PCB-015	PCB-015	0.167	0.00001	0.00504			0.167	0.00001	0.00504			Y
PCB-016/032	PCB-016/032	0.34	0.00001	0.0101			0.34	0.00001	0.0101			Y
PCB-017	PCB-017	0.229	0.00001	0.00504			0.229	0.00001	0.00504			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-018	PCB-018	0.327	0.00001	0.00504			0.327	0.00001	0.00504			Y
PCB-019	PCB-019	0.945	0.00001	0.00504			0.945	0.00001	0.00504			Y
PCB-020/021/033	PCB-020/021/033	0.0802	0.00001	0.0151			0.0802	0.00001	0.0151			Y
PCB-022	PCB-022	0.0597	0.00001	0.00504			0.0597	0.00001	0.00504			Y
PCB-023	PCB-023		0.00253	0.00504	U	U		0.00253	0.00504	U	U	N
PCB-024/027	PCB-024/027	0.303	0.00001	0.0101			0.303	0.00001	0.0101			Y
PCB-025	PCB-025	0.0357	0.00001	0.00504			0.0357	0.00001	0.00504			Y
PCB-026	PCB-026	0.117	0.00001	0.00504			0.117	0.00001	0.00504			Y
PCB-028	PCB-028	0.219	0.00001	0.00504			0.219	0.00001	0.00504			Y
PCB-029	PCB-029		0.00243	0.00504	U	U		0.00243	0.00504	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-030	PCB-030		0.00119	0.00504	U	U		0.00119	0.00504	U	U	N
PCB-031	PCB-031	0.247	0.00001	0.00504			0.247	0.00001	0.00504			Y
PCB-034	PCB-034		0.00718	0.00718	UM	UM		0.00718	0.00718	UM	UM	N
PCB-035	PCB-035	0.00334	0.00001	0.00504	J	J	0.00334	0.00001	0.00504	J	J	Y
PCB-036	PCB-036		0.00247	0.00504	U	U		0.00247	0.00504	U	U	N
PCB-037	PCB-037	0.0532	0.00001	0.00504			0.0532	0.00001	0.00504			Y
PCB-038	PCB-038	0.0115	0.00001	0.00504			0.0115	0.00001	0.00504			Y
PCB-039	PCB-039		0.00136	0.00504	UM	UM		0.00136	0.00504	UM	UM	N
PCB-040	PCB-040	0.0483	0.00001	0.00504			0.0483	0.00001	0.00504			Y
PCB-042/059	PCB-042/059	0.085	0.00001	0.0101			0.085	0.00001	0.0101			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-043/049	PCB-043/049	0.257	0.00001	0.0101			0.257	0.00001	0.0101			Y
PCB-044	PCB-044	0.202	0.00001	0.00504			0.202	0.00001	0.00504			Y
PCB-045	PCB-045	0.0568	0.00001	0.00504			0.0568	0.00001	0.00504			Y
PCB-046	PCB-046	0.024	0.00001	0.00504			0.024	0.00001	0.00504			Y
PCB-047	PCB-047	0.145	0.00001	0.00504			0.145	0.00001	0.00504			Y
PCB-048/075	PCB-048/075	0.036	0.00001	0.0101			0.036	0.00001	0.0101			Y
PCB-050	PCB-050	0.00347	0.00001	0.00504	J	J	0.00347	0.00001	0.00504	J	J	Y
PCB-051	PCB-051	0.0312	0.00001	0.00504			0.0312	0.00001	0.00504			Y
PCB-052/069	PCB-052/069	0.325	0.00001	0.0101			0.325	0.00001	0.0101			Y
PCB-053	PCB-053	0.132	0.00001	0.00504			0.132	0.00001	0.00504			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-054	PCB-054	0.0125	0.00001	0.00504			0.0125	0.00001	0.00504			Y
PCB-055	PCB-055	0.00387	0.00001	0.00504	J	J	0.00387	0.00001	0.00504	J	J	Y
PCB-056/060	PCB-056/060	0.101	0.00001	0.0101			0.101	0.00001	0.0101			Y
PCB-057	PCB-057	0.00292	0.00001	0.00504	J	J	0.00292	0.00001	0.00504	J	J	Y
PCB-058	PCB-058		0.000711	0.00504	UM	UM		0.000711	0.00504	UM	UM	N
PCB-061/070	PCB-061/070	0.139	0.00001	0.0101			0.139	0.00001	0.0101			Y
PCB-062	PCB-062		0.00116	0.00504	U	U		0.00116	0.00504	U	U	N
PCB-063	PCB-063	0.0125	0.00001	0.00504			0.0125	0.00001	0.00504			Y
PCB-065	PCB-065		0.00123	0.00504	U	U		0.00123	0.00504	U	U	N
PCB-066/076	PCB-066/076	0.138	0.00001	0.0101			0.138	0.00001	0.0101			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-067	PCB-067	0.00745	0.00001	0.00504			0.00745	0.00001	0.00504			Y
PCB-068	PCB-068	0.00673	0.00001	0.00504			0.00673	0.00001	0.00504			Y
PCB-073	PCB-073	0.00571	0.00001	0.00504			0.00571	0.00001	0.00504			Y
PCB-074	PCB-074	0.0761	0.00001	0.00504			0.0761	0.00001	0.00504			Y
PCB-077	PCB-077	0.0138	0.00001	0.00504			0.0138	0.00001	0.00504			Y
PCB-078	PCB-078		0.000927	0.00504	U	U		0.000927	0.00504	U	U	N
PCB-079	PCB-079		0.000885	0.00504	U	U		0.000885	0.00504	U	U	N
PCB-080	PCB-080		0.000797	0.00504	U	U		0.000797	0.00504	U	U	N
PCB-081	PCB-081		0.000715	0.00504	UM	UM		0.000715	0.00504	UM	UM	N
PCB-082	PCB-082	0.0175	0.00001	0.00504			0.0175	0.00001	0.00504			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-083	PCB-083		0.00113	0.00504	U	U		0.00113	0.00504	U	U	N
PCB-084/092	PCB-084/092	0.0676	0.00001	0.0101			0.0676	0.00001	0.0101			Y
PCB-085/116	PCB-085/116	0.0223	0.00001	0.0101			0.0223	0.00001	0.0101			Y
PCB-086	PCB-086		0.00193	0.00504	U	U		0.00193	0.00504	U	U	N
PCB-087/117/125	PCB-087/117/125	0.044	0.00001	0.0151			0.044	0.00001	0.0151			Y
PCB-088/091	PCB-088/091	0.0335	0.00001	0.00504			0.0335	0.00001	0.00504			Y
PCB-089	PCB-089	0.00291	0.00001	0.00504	J	J	0.00291	0.00001	0.00504	J	J	Y
PCB-090/101	PCB-090/101	0.0953	0.00001	0.0101			0.0953	0.00001	0.0101			Y
PCB-093	PCB-093		0.00182	0.00504	U	U		0.00182	0.00504	U	U	N
PCB-094	PCB-094	0.00569	0.00001	0.00504			0.00569	0.00001	0.00504			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-095/098/102	PCB-095/098/102	0.128	0.00001	0.0151			0.128	0.00001	0.0151			Y
PCB-096	PCB-096	0.00486	0.00001	0.00504	J	J	0.00486	0.00001	0.00504	J	J	Y
PCB-097	PCB-097	0.0329	0.00001	0.00504			0.0329	0.00001	0.00504			Y
PCB-099	PCB-099	0.0517	0.00001	0.00504			0.0517	0.00001	0.00504			Y
PCB-100	PCB-100		0.00283	0.00504	UM	UM		0.00283	0.00504	UM	UM	N
PCB-103	PCB-103	0.00353	0.00001	0.00504	J	J	0.00353	0.00001	0.00504	J	J	Y
PCB-104	PCB-104		0.00124	0.00504	U	U		0.00124	0.00504	U	U	N
PCB-105	PCB-105	0.0408	0.00001	0.00504			0.0408	0.00001	0.00504			Y
PCB-106/118	PCB-106/118	0.0703	0.00001	0.0101			0.0703	0.00001	0.0101			Y
PCB-107/109	PCB-107/109	0.00735	0.00001	0.0101	J	J	0.00735	0.00001	0.0101	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-108/112	PCB-108/112	0.00952	0.00001	0.0101	J	J	0.00952	0.00001	0.0101	J	J	Y
PCB-110	PCB-110	0.121	0.00001	0.00504			0.121	0.00001	0.00504			Y
PCB-111/115	PCB-111/115	0.00229	0.00001	0.0101	J	J	0.00229	0.00001	0.0101	J	J	Y
PCB-113	PCB-113	0.000869	0.00001	0.00504	J	J	0.000869	0.00001	0.00504	J	J	Y
PCB-114	PCB-114		0.00238	0.00504	UM	UM		0.00238	0.00504	UM	UM	N
PCB-119	PCB-119	0.00347	0.00001	0.00504	J	J	0.00347	0.00001	0.00504	J	J	Y
PCB-120	PCB-120		0.000953	0.00504	U	U		0.000953	0.00504	U	U	N
PCB-121	PCB-121		0.00113	0.00504	U	U		0.00113	0.00504	U	U	N
PCB-122	PCB-122	0.00162	0.00001	0.00504	J	J	0.00162	0.00001	0.00504	J	J	Y
PCB-123	PCB-123	0.00188	0.00001	0.00504	J	J	0.00188	0.00001	0.00504	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-124	PCB-124	0.00317	0.00001	0.00504	J	J	0.00317	0.00001	0.00504	J	J	Y
PCB-126	PCB-126		0.00157	0.00504	U	U		0.00157	0.00504	U	U	N
PCB-127	PCB-127		0.00152	0.00504	U	U		0.00152	0.00504	U	U	N
PCB-128/162	PCB-128/162	0.0102	0.00001	0.0101			0.0102	0.00001	0.0101			Y
PCB-129	PCB-129		0.00284	0.00504	UM	UM		0.00284	0.00504	UM	UM	N
PCB-130	PCB-130	0.00549	0.00001	0.00504			0.00549	0.00001	0.00504			Y
PCB-131/133	PCB-131/133	0.00364	0.00001	0.0101	J	J	0.00364	0.00001	0.0101	J	J	Y
PCB-132/161	PCB-132/161	0.0177	0.00001	0.0101			0.0177	0.00001	0.0101			Y
PCB-134/143	PCB-134/143	0.00568	0.00001	0.0101	J	J	0.00568	0.00001	0.0101	J	J	Y
PCB-135	PCB-135	0.0118	0.00001	0.00504			0.0118	0.00001	0.00504			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-136	PCB-136	0.0107	0.00001	0.00504			0.0107	0.00001	0.00504			Y
PCB-137	PCB-137	0.00299	0.00001	0.00504	J	J	0.00299	0.00001	0.00504	J	J	Y
PCB-138/163/164	PCB-138/163/164	0.0663	0.00001	0.0151			0.0663	0.00001	0.0151			Y
PCB-139/149	PCB-139/149	0.0515	0.00001	0.0101			0.0515	0.00001	0.0101			Y
PCB-140	PCB-140		0.00119	0.00504	U	U		0.00119	0.00504	U	U	N
PCB-141	PCB-141	0.0083	0.00001	0.00504			0.0083	0.00001	0.00504			Y
PCB-142	PCB-142		0.00113	0.00504	U	U		0.00113	0.00504	U	U	N
PCB-144	PCB-144	0.00262	0.00001	0.00504	J	J	0.00262	0.00001	0.00504	J	J	Y
PCB-145	PCB-145		0.000883	0.00504	U	U		0.000883	0.00504	U	U	N
PCB-146/165	PCB-146/165	0.0106	0.00001	0.0101			0.0106	0.00001	0.0101			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-147	PCB-147	0.00413	0.00001	0.00504	J	J	0.00413	0.00001	0.00504	J	J	Y
PCB-148	PCB-148		0.00117	0.00504	U	U		0.00117	0.00504	U	U	N
PCB-150	PCB-150		0.000864	0.00504	U	U		0.000864	0.00504	U	U	N
PCB-151	PCB-151	0.0194	0.00001	0.00504			0.0194	0.00001	0.00504			Y
PCB-152	PCB-152		0.00085	0.00504	U	U		0.00085	0.00504	U	U	N
PCB-153	PCB-153	0.0495	0.00001	0.00504			0.0495	0.00001	0.00504			Y
PCB-154	PCB-154	0.00195	0.00001	0.00504	J	J	0.00195	0.00001	0.00504	J	J	Y
PCB-155	PCB-155		0.000807	0.00504	U	U		0.000807	0.00504	U	U	N
PCB-156	PCB-156	0.00613	0.00001	0.00504			0.00613	0.00001	0.00504			Y
PCB-157	PCB-157	0.00147	0.00001	0.00504	J	J	0.00147	0.00001	0.00504	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-158/160	PCB-158/160	0.00579	0.00001	0.0101	J	J	0.00579	0.00001	0.0101	J	J	Y
PCB-159	PCB-159		0.000652	0.00504	U	U		0.000652	0.00504	U	U	N
PCB-166	PCB-166		0.00071	0.00504	U	U		0.00071	0.00504	U	U	N
PCB-167	PCB-167	0.00243	0.00001	0.00504	J	J	0.00243	0.00001	0.00504	J	J	Y
PCB-168	PCB-168		0.000711	0.00504	U	U		0.000711	0.00504	U	U	N
PCB-169	PCB-169		0.00075	0.00504	U	U		0.00075	0.00504	U	U	N
PCB-170	PCB-170	0.0084	0.00001	0.00504			0.0084	0.00001	0.00504			Y
PCB-171	PCB-171	0.00253	0.00001	0.00504	J	J	0.00253	0.00001	0.00504	J	J	Y
PCB-172	PCB-172	0.00149	0.00001	0.00504	J	J	0.00149	0.00001	0.00504	J	J	Y
PCB-173	PCB-173		0.000777	0.00504	U	U		0.000777	0.00504	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-174	PCB-174	0.00946	0.00001	0.00504			0.00946	0.00001	0.00504			Y
PCB-175	PCB-175		0.000659	0.00504	U	U		0.000659	0.00504	U	U	N
PCB-176	PCB-176	0.00173	0.00001	0.00504	J	J	0.00173	0.00001	0.00504	J	J	Y
PCB-177	PCB-177	0.00709	0.00001	0.00504			0.00709	0.00001	0.00504			Y
PCB-178	PCB-178	0.00477	0.00001	0.00504	J	J	0.00477	0.00001	0.00504	J	J	Y
PCB-179	PCB-179		0.00507	0.00507	UM	UM		0.00507	0.00507	UM	UM	N
PCB-180	PCB-180	0.019	0.00001	0.00504			0.019	0.00001	0.00504			Y
PCB-181	PCB-181		0.000648	0.00504	U	U		0.000648	0.00504	U	U	N
PCB-182/187	PCB-182/187	0.0145	0.00001	0.0101			0.0145	0.00001	0.0101			Y
PCB-183	PCB-183	0.00438	0.00001	0.00504	J	J	0.00438	0.00001	0.00504	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-184	PCB-184		0.000525	0.00504	U	U		0.000525	0.00504	U	U	N
PCB-185	PCB-185		0.000654	0.00504	U	U		0.000654	0.00504	U	U	N
PCB-186	PCB-186		0.000483	0.00504	U	U		0.000483	0.00504	U	U	N
PCB-188	PCB-188		0.000482	0.00504	U	U		0.000482	0.00504	U	U	N
PCB-189	PCB-189		0.000437	0.00504	U	U		0.000437	0.00504	U	U	N
PCB-190	PCB-190	0.0019	0.00001	0.00504	J	J	0.0019	0.00001	0.00504	J	J	Y
PCB-191	PCB-191		0.000477	0.00504	U	U		0.000477	0.00504	U	U	N
PCB-192	PCB-192		0.000508	0.00504	U	U		0.000508	0.00504	U	U	N
PCB-193	PCB-193	0.0013	0.00001	0.00504	J	J	0.0013	0.00001	0.00504	J	J	Y
PCB-194	PCB-194		0.00367	0.00504	UM	UM		0.00367	0.00504	UM	UM	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-195	PCB-195	0.00168	0.00001	0.00504	J	J	0.00168	0.00001	0.00504	J	J	Y
PCB-196/203	PCB-196/203	0.00702	0.00001	0.0101	J	J	0.00702	0.00001	0.0101	J	J	Y
PCB-197	PCB-197		0.000921	0.00504	U	U		0.000921	0.00504	U	U	N
PCB-198	PCB-198		0.00134	0.00504	U	U		0.00134	0.00504	U	U	N
PCB-199	PCB-199	0.00917	0.00001	0.00504			0.00917	0.00001	0.00504			Y
PCB-200	PCB-200	0.001	0.00001	0.00504	J	J	0.001	0.00001	0.00504	J	J	Y
PCB-201	PCB-201		0.000701	0.00504	UM	UM		0.000701	0.00504	UM	UM	N
PCB-202	PCB-202		0.00189	0.00504	UM	UM		0.00189	0.00504	UM	UM	N
PCB-204	PCB-204		0.00103	0.00504	U	U		0.00103	0.00504	U	U	N
PCB-205	PCB-205		0.000717	0.00504	U	U		0.000717	0.00504	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-003
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	1700918-03
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-206	PCB-206	0.00414	0.00001	0.00504	J	J	0.00414	0.00001	0.00504	J	J	Y
PCB-207	PCB-207		0.000256	0.00504	U	U		0.000256	0.00504	U	U	N
PCB-208	PCB-208		0.00154	0.00504	UM	UM		0.00154	0.00504	UM	UM	N
PCB-209	PCB-209	0.00274	0.00001	0.00504	J	J	0.00274	0.00001	0.00504	J	J	Y
PCB-41/64/71/72	PCB-41/64/71/72	0.245	0.00001	0.0202			0.245	0.00001	0.0202			Y
Pentachlorobiphenyl	25429-29-2	0.772	0.00001	0.0001			0.772	0.00001	0.0001	J	J	Y
Tetrachlorobiphenyl	26914-33-0	2.11	0.00001	0.0001			2.11	0.00001	0.0001	J	J	Y
Total PCBs	1336-36-3	10.1	0.00001	0.0001		J	10.1	0.00001	0.0001	J	J	Y
Trichlorobiphenyl	25323-68-6	2.97	0.00001	0.0001			2.97	0.00001	0.0001	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Decachlorobiphenyl	2051-24-3	0.00605	0.00001	0.0001			0.00605	0.00001	0.0001			Y
Dichlorobiphenyl	25512-42-9	1.97	0.00001	0.0001			1.97	0.00001	0.0001			Y
Heptachlorobiphenyl	28655-71-2	0.1	0.00001	0.0001			0.1	0.00001	0.0001	J	J	Y
Hexachlorobiphenyl	26601-64-9	0.348	0.00001	0.0001			0.348	0.00001	0.0001	J	J	Y
Monochlorobiphenyl	27323-18-8	0.179	0.00001	0.0001			0.179	0.00001	0.0001			Y
Nonachlorobiphenyl	53742-07-7	0.0125	0.00001	0.0001			0.0125	0.00001	0.0001	J	J	Y
Octachlorobiphenyl	55722-26-4	0.0321	0.00001	0.0001			0.0321	0.00001	0.0001	J	J	Y
PCB-001	PCB-001	0.141	0.00001	0.00511			0.141	0.00001	0.00511			Y
PCB-002	PCB-002	0.00587	0.00001	0.00511			0.00587	0.00001	0.00511			Y
PCB-003	PCB-003	0.0327	0.00001	0.00511			0.0327	0.00001	0.00511			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-004/010	PCB-004/010	1.2	0.00001	0.0102			1.2	0.00001	0.0102			Y
PCB-005/008	PCB-005/008	0.225	0.00001	0.0102			0.225	0.00001	0.0102			Y
PCB-006	PCB-006	0.0934	0.00001	0.00511			0.0934	0.00001	0.00511			Y
PCB-007/009	PCB-007/009		0.00466	0.0102	U	U		0.00466	0.0102	U	U	N
PCB-011	PCB-011	0.0229	0.00001	0.00511			0.0229	0.00001	0.00511			Y
PCB-012/013	PCB-012/013	0.0637	0.00001	0.0102			0.0637	0.00001	0.0102			Y
PCB-014	PCB-014		0.00358	0.00511	U	U		0.00358	0.00511	U	U	N
PCB-015	PCB-015	0.368	0.00001	0.00511			0.368	0.00001	0.00511			Y
PCB-016/032	PCB-016/032	0.428	0.00001	0.0102			0.428	0.00001	0.0102			Y
PCB-017	PCB-017	0.429	0.00001	0.00511			0.429	0.00001	0.00511			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-018	PCB-018	0.629	0.00001	0.00511			0.629	0.00001	0.00511			Y
PCB-019	PCB-019	0.454	0.00001	0.00511			0.454	0.00001	0.00511			Y
PCB-020/021/033	PCB-020/021/033	0.0619	0.00001	0.0153			0.0619	0.00001	0.0153			Y
PCB-022	PCB-022	0.0538	0.00001	0.00511			0.0538	0.00001	0.00511			Y
PCB-023	PCB-023		0.0021	0.00511	U	U		0.0021	0.00511	U	U	N
PCB-024/027	PCB-024/027	0.227	0.00001	0.0102			0.227	0.00001	0.0102			Y
PCB-025	PCB-025	0.0701	0.00001	0.00511			0.0701	0.00001	0.00511			Y
PCB-026	PCB-026	0.149	0.00001	0.00511			0.149	0.00001	0.00511			Y
PCB-028	PCB-028	0.333	0.00001	0.00511			0.333	0.00001	0.00511			Y
PCB-029	PCB-029		0.00201	0.00511	U	U		0.00201	0.00511	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-030	PCB-030		0.000657	0.00511	U	U		0.000657	0.00511	U	U	N
PCB-031	PCB-031	0.393	0.00001	0.00511			0.393	0.00001	0.00511			Y
PCB-034	PCB-034	0.00543	0.00001	0.00511			0.00543	0.00001	0.00511			Y
PCB-035	PCB-035	0.00418	0.00001	0.00511	J	J	0.00418	0.00001	0.00511	J	J	Y
PCB-036	PCB-036		0.00182	0.00511	U	U		0.00182	0.00511	U	U	N
PCB-037	PCB-037	0.0793	0.00001	0.00511			0.0793	0.00001	0.00511			Y
PCB-038	PCB-038		0.0146	0.0146	UM	UM		0.0146	0.0146	UM	UM	N
PCB-039	PCB-039		0.0017	0.00511	U	U		0.0017	0.00511	U	U	N
PCB-040	PCB-040	0.0472	0.00001	0.00511			0.0472	0.00001	0.00511			Y
PCB-042/059	PCB-042/059	0.079	0.00001	0.0102			0.079	0.00001	0.0102			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-043/049	PCB-043/049	0.38	0.00001	0.0102			0.38	0.00001	0.0102			Y
PCB-044	PCB-044	0.179	0.00001	0.00511			0.179	0.00001	0.00511			Y
PCB-045	PCB-045	0.0553	0.00001	0.00511			0.0553	0.00001	0.00511			Y
PCB-046	PCB-046	0.0333	0.00001	0.00511			0.0333	0.00001	0.00511			Y
PCB-047	PCB-047	0.188	0.00001	0.00511			0.188	0.00001	0.00511			Y
PCB-048/075	PCB-048/075	0.0316	0.00001	0.0102			0.0316	0.00001	0.0102			Y
PCB-050	PCB-050	0.00398	0.00001	0.00511	J	J	0.00398	0.00001	0.00511	J	J	Y
PCB-051	PCB-051	0.0338	0.00001	0.00511			0.0338	0.00001	0.00511			Y
PCB-052/069	PCB-052/069	0.328	0.00001	0.0102			0.328	0.00001	0.0102			Y
PCB-053	PCB-053	0.114	0.00001	0.00511			0.114	0.00001	0.00511			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-054	PCB-054	0.00715	0.00001	0.00511			0.00715	0.00001	0.00511			Y
PCB-055	PCB-055	0.00357	0.00001	0.00511	J	J	0.00357	0.00001	0.00511	J	J	Y
PCB-056/060	PCB-056/060	0.074	0.00001	0.0102			0.074	0.00001	0.0102			Y
PCB-057	PCB-057	0.00348	0.00001	0.00511	J	J	0.00348	0.00001	0.00511	J	J	Y
PCB-058	PCB-058		0.00106	0.00511	UM	UM		0.00106	0.00511	UM	UM	N
PCB-061/070	PCB-061/070	0.133	0.00001	0.0102			0.133	0.00001	0.0102			Y
PCB-062	PCB-062		0.000612	0.00511	U	U		0.000612	0.00511	U	U	N
PCB-063	PCB-063	0.0138	0.00001	0.00511			0.0138	0.00001	0.00511			Y
PCB-065	PCB-065		0.000647	0.00511	U	U		0.000647	0.00511	U	U	N
PCB-066/076	PCB-066/076	0.13	0.00001	0.0102			0.13	0.00001	0.0102			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-067	PCB-067	0.00745	0.00001	0.00511			0.00745	0.00001	0.00511			Y
PCB-068	PCB-068	0.0061	0.00001	0.00511			0.0061	0.00001	0.00511			Y
PCB-073	PCB-073		0.00442	0.00511	UM	UM		0.00442	0.00511	UM	UM	N
PCB-074	PCB-074	0.0657	0.00001	0.00511			0.0657	0.00001	0.00511			Y
PCB-077	PCB-077	0.0202	0.00001	0.00511			0.0202	0.00001	0.00511			Y
PCB-078	PCB-078		0.000474	0.00511	U	U		0.000474	0.00511	U	U	N
PCB-079	PCB-079		0.00208	0.00511	UM	UM		0.00208	0.00511	UM	UM	N
PCB-080	PCB-080		0.000427	0.00511	U	U		0.000427	0.00511	U	U	N
PCB-081	PCB-081		0.000442	0.00511	U	U		0.000442	0.00511	U	U	N
PCB-082	PCB-082	0.011	0.00001	0.00511			0.011	0.00001	0.00511			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-083	PCB-083		0.000544	0.00511	U	U		0.000544	0.00511	U	U	N
PCB-084/092	PCB-084/092	0.0783	0.00001	0.0102			0.0783	0.00001	0.0102			Y
PCB-085/116	PCB-085/116	0.0174	0.00001	0.0102			0.0174	0.00001	0.0102			Y
PCB-086	PCB-086		0.000929	0.00511	U	U		0.000929	0.00511	U	U	N
PCB-087/117/125	PCB-087/117/125	0.0308	0.00001	0.0153			0.0308	0.00001	0.0153			Y
PCB-088/091	PCB-088/091	0.0415	0.00001	0.00511			0.0415	0.00001	0.00511			Y
PCB-089	PCB-089	0.00217	0.00001	0.00511	J	J	0.00217	0.00001	0.00511	J	J	Y
PCB-090/101	PCB-090/101	0.112	0.00001	0.0102			0.112	0.00001	0.0102			Y
PCB-093	PCB-093		0.000884	0.00511	U	U		0.000884	0.00511	U	U	N
PCB-094	PCB-094	0.00504	0.00001	0.00511	J	J	0.00504	0.00001	0.00511	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-095/098/102	PCB-095/098/102	0.14	0.00001	0.0153			0.14	0.00001	0.0153			Y
PCB-096	PCB-096	0.00463	0.00001	0.00511	J	J	0.00463	0.00001	0.00511	J	J	Y
PCB-097	PCB-097	0.0312	0.00001	0.00511			0.0312	0.00001	0.00511			Y
PCB-099	PCB-099	0.0656	0.00001	0.00511			0.0656	0.00001	0.00511			Y
PCB-100	PCB-100	0.00393	0.00001	0.00511	J	J	0.00393	0.00001	0.00511	J	J	Y
PCB-103	PCB-103	0.00507	0.00001	0.00511	J	J	0.00507	0.00001	0.00511	J	J	Y
PCB-104	PCB-104		0.000604	0.00511	U	U		0.000604	0.00511	U	U	N
PCB-105	PCB-105	0.03	0.00001	0.00511			0.03	0.00001	0.00511			Y
PCB-106/118	PCB-106/118	0.0798	0.00001	0.0102			0.0798	0.00001	0.0102			Y
PCB-107/109	PCB-107/109	0.00921	0.00001	0.0102	J	J	0.00921	0.00001	0.0102	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-108/112	PCB-108/112	0.011	0.00001	0.0102			0.011	0.00001	0.0102			Y
PCB-110	PCB-110	0.128	0.00001	0.00511			0.128	0.00001	0.00511			Y
PCB-111/115	PCB-111/115	0.00155	0.00001	0.0102	J	J	0.00155	0.00001	0.0102	J	J	Y
PCB-113	PCB-113	0.00143	0.00001	0.00511	J	J	0.00143	0.00001	0.00511	J	J	Y
PCB-114	PCB-114		0.00188	0.00511	UM	UM		0.00188	0.00511	UM	UM	N
PCB-119	PCB-119	0.0061	0.00001	0.00511			0.0061	0.00001	0.00511			Y
PCB-120	PCB-120	0.00126	0.00001	0.00511	J	J	0.00126	0.00001	0.00511	J	J	Y
PCB-121	PCB-121		0.000551	0.00511	U	U		0.000551	0.00511	U	U	N
PCB-122	PCB-122		0.000763	0.00511	U	U		0.000763	0.00511	U	U	N
PCB-123	PCB-123	0.00184	0.00001	0.00511	J	J	0.00184	0.00001	0.00511	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-124	PCB-124	0.00276	0.00001	0.00511	J	J	0.00276	0.00001	0.00511	J	J	Y
PCB-126	PCB-126		0.000762	0.00511	U	U		0.000762	0.00511	U	U	N
PCB-127	PCB-127		0.000745	0.00511	U	U		0.000745	0.00511	U	U	N
PCB-128/162	PCB-128/162	0.0106	0.00001	0.0102			0.0106	0.00001	0.0102			Y
PCB-129	PCB-129		0.00199	0.00511	UM	UM		0.00199	0.00511	UM	UM	N
PCB-130	PCB-130	0.00669	0.00001	0.00511			0.00669	0.00001	0.00511			Y
PCB-131/133	PCB-131/133	0.00389	0.00001	0.0102	J	J	0.00389	0.00001	0.0102	J	J	Y
PCB-132/161	PCB-132/161	0.0199	0.00001	0.0102			0.0199	0.00001	0.0102			Y
PCB-134/143	PCB-134/143	0.00596	0.00001	0.0102	J	J	0.00596	0.00001	0.0102	J	J	Y
PCB-135	PCB-135	0.015	0.00001	0.00511			0.015	0.00001	0.00511			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-136	PCB-136	0.0132	0.00001	0.00511			0.0132	0.00001	0.00511			Y
PCB-137	PCB-137	0.00291	0.00001	0.00511	J	J	0.00291	0.00001	0.00511	J	J	Y
PCB-138/163/164	PCB-138/163/164	0.0713	0.00001	0.0153			0.0713	0.00001	0.0153			Y
PCB-139/149	PCB-139/149	0.0686	0.00001	0.0102			0.0686	0.00001	0.0102			Y
PCB-140	PCB-140		0.000943	0.00511	U	U		0.000943	0.00511	U	U	N
PCB-141	PCB-141	0.0086	0.00001	0.00511			0.0086	0.00001	0.00511			Y
PCB-142	PCB-142		0.000678	0.00511	U	U		0.000678	0.00511	U	U	N
PCB-144	PCB-144		0.0015	0.00511	UM	UM		0.0015	0.00511	UM	UM	N
PCB-145	PCB-145		0.000703	0.00511	U	U		0.000703	0.00511	U	U	N
PCB-146/165	PCB-146/165	0.0144	0.00001	0.0102			0.0144	0.00001	0.0102			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-147	PCB-147	0.00515	0.00001	0.00511			0.00515	0.00001	0.00511			Y
PCB-148	PCB-148		0.000926	0.00511	U	U		0.000926	0.00511	U	U	N
PCB-150	PCB-150		0.000688	0.00511	U	U		0.000688	0.00511	U	U	N
PCB-151	PCB-151	0.021	0.00001	0.00511			0.021	0.00001	0.00511			Y
PCB-152	PCB-152		0.000677	0.00511	U	U		0.000677	0.00511	U	U	N
PCB-153	PCB-153	0.0636	0.00001	0.00511			0.0636	0.00001	0.00511			Y
PCB-154	PCB-154		0.00279	0.00511	UM	UM		0.00279	0.00511	UM	UM	N
PCB-155	PCB-155		0.000643	0.00511	U	U		0.000643	0.00511	U	U	N
PCB-156	PCB-156	0.00578	0.00001	0.00511			0.00578	0.00001	0.00511			Y
PCB-157	PCB-157	0.00142	0.00001	0.00511	J	J	0.00142	0.00001	0.00511	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-158/160	PCB-158/160	0.0063	0.00001	0.0102	J	J	0.0063	0.00001	0.0102	J	J	Y
PCB-159	PCB-159	0.000602	0.00001	0.00511	J	J	0.000602	0.00001	0.00511	J	J	Y
PCB-166	PCB-166		0.000436	0.00511	U	U		0.000436	0.00511	U	U	N
PCB-167	PCB-167	0.0027	0.00001	0.00511	J	J	0.0027	0.00001	0.00511	J	J	Y
PCB-168	PCB-168		0.000424	0.00511	U	U		0.000424	0.00511	U	U	N
PCB-169	PCB-169		0.000447	0.00511	U	U		0.000447	0.00511	U	U	N
PCB-170	PCB-170	0.00962	0.00001	0.00511			0.00962	0.00001	0.00511			Y
PCB-171	PCB-171	0.00288	0.00001	0.00511	J	J	0.00288	0.00001	0.00511	J	J	Y
PCB-172	PCB-172	0.00209	0.00001	0.00511	J	J	0.00209	0.00001	0.00511	J	J	Y
PCB-173	PCB-173		0.000435	0.00511	U	U		0.000435	0.00511	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-174	PCB-174	0.0108	0.00001	0.00511			0.0108	0.00001	0.00511			Y
PCB-175	PCB-175	0.00063	0.00001	0.00511	J	J	0.00063	0.00001	0.00511	J	J	Y
PCB-176	PCB-176	0.00132	0.00001	0.00511	J	J	0.00132	0.00001	0.00511	J	J	Y
PCB-177	PCB-177	0.00715	0.00001	0.00511			0.00715	0.00001	0.00511			Y
PCB-178	PCB-178	0.00489	0.00001	0.00511	J	J	0.00489	0.00001	0.00511	J	J	Y
PCB-179	PCB-179	0.00728	0.00001	0.00511			0.00728	0.00001	0.00511			Y
PCB-180	PCB-180	0.0223	0.00001	0.00511			0.0223	0.00001	0.00511			Y
PCB-181	PCB-181		0.000363	0.00511	U	U		0.000363	0.00511	U	U	N
PCB-182/187	PCB-182/187	0.0202	0.00001	0.0102			0.0202	0.00001	0.0102			Y
PCB-183	PCB-183	0.00645	0.00001	0.00511			0.00645	0.00001	0.00511			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-184	PCB-184		0.000321	0.00511	U	U		0.000321	0.00511	U	U	N
PCB-185	PCB-185	0.0014	0.00001	0.00511	J	J	0.0014	0.00001	0.00511	J	J	Y
PCB-186	PCB-186		0.000295	0.00511	U	U		0.000295	0.00511	U	U	N
PCB-188	PCB-188		0.000294	0.00511	U	U		0.000294	0.00511	U	U	N
PCB-189	PCB-189	0.000478	0.00001	0.00511	J	J	0.000478	0.00001	0.00511	J	J	Y
PCB-190	PCB-190	0.00167	0.00001	0.00511	J	J	0.00167	0.00001	0.00511	J	J	Y
PCB-191	PCB-191		0.000267	0.00511	U	U		0.000267	0.00511	U	U	N
PCB-192	PCB-192		0.000285	0.00511	U	U		0.000285	0.00511	U	U	N
PCB-193	PCB-193	0.0012	0.00001	0.00511	J	J	0.0012	0.00001	0.00511	J	J	Y
PCB-194	PCB-194	0.00611	0.00001	0.00511			0.00611	0.00001	0.00511			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-195	PCB-195	0.00167	0.00001	0.00511	J	J	0.00167	0.00001	0.00511	J	J	Y
PCB-196/203	PCB-196/203	0.00914	0.00001	0.0102	J	J	0.00914	0.00001	0.0102	J	J	Y
PCB-197	PCB-197		0.000696	0.00511	U	U		0.000696	0.00511	U	U	N
PCB-198	PCB-198		0.00101	0.00511	U	U		0.00101	0.00511	U	U	N
PCB-199	PCB-199	0.0126	0.00001	0.00511			0.0126	0.00001	0.00511			Y
PCB-200	PCB-200	0.00123	0.00001	0.00511	J	J	0.00123	0.00001	0.00511	J	J	Y
PCB-201	PCB-201	0.00126	0.00001	0.00511	J	J	0.00126	0.00001	0.00511	J	J	Y
PCB-202	PCB-202		0.0029	0.00511	UM	UM		0.0029	0.00511	UM	UM	N
PCB-204	PCB-204		0.00078	0.00511	U	U		0.00078	0.00511	U	U	N
PCB-205	PCB-205		0.000777	0.00511	UM	UM		0.000777	0.00511	UM	UM	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-004
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	1700918-04
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-206	PCB-206	0.00892	0.00001	0.00511			0.00892	0.00001	0.00511			Y
PCB-207	PCB-207		0.000745	0.00511	UM	UM		0.000745	0.00511	UM	UM	N
PCB-208	PCB-208	0.00357	0.00001	0.00511	J	J	0.00357	0.00001	0.00511	J	J	Y
PCB-209	PCB-209	0.00605	0.00001	0.00511			0.00605	0.00001	0.00511			Y
PCB-41/64/71/72	PCB-41/64/71/72	0.235	0.00001	0.0204			0.235	0.00001	0.0204			Y
Pentachlorobiphenyl	25429-29-2	0.822	0.00001	0.0001			0.822	0.00001	0.0001	J	J	Y
Tetrachlorobiphenyl	26914-33-0	2.17	0.00001	0.0001			2.17	0.00001	0.0001	J	J	Y
Total PCBs	1336-36-3	8.96	0.00001	0.0001		J	8.96	0.00001	0.0001	J	J	Y
Trichlorobiphenyl	25323-68-6	3.32	0.00001	0.0001			3.32	0.00001	0.0001	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Decachlorobiphenyl	2051-24-3		0.000473	0.0001	U	U		0.000473	0.0001	U	U	N
Dichlorobiphenyl	25512-42-9	0.134	0.00001	0.0001			0.134	0.00001	0.0001			Y
Heptachlorobiphenyl	28655-71-2	0.00594	0.00001	0.0001			0.00594	0.00001	0.0001	J	J	Y
Hexachlorobiphenyl	26601-64-9	0.0231	0.00001	0.0001			0.0231	0.00001	0.0001	J	J	Y
Monochlorobiphenyl	27323-18-8	0.00116	0.00001	0.0001			0.00116	0.00001	0.0001	J	J	Y
Nonachlorobiphenyl	53742-07-7		0.000524	0.0001	U	U		0.000524	0.0001	U	U	N
Octachlorobiphenyl	55722-26-4		0.00102	0.0001	U	U		0.00102	0.0001	U	U	N
PCB-001	PCB-001	0.00116	0.00001	0.00527	J	J	0.00116	0.00001	0.00527	J	J	Y
PCB-002	PCB-002		0.000833	0.00527	U	U		0.000833	0.00527	U	U	N
PCB-003	PCB-003		0.000819	0.00527	U	U		0.000819	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-004/010	PCB-004/010	0.112	0.00001	0.0105			0.112	0.00001	0.0105			Y
PCB-005/008	PCB-005/008		0.00158	0.0105	U	U		0.00158	0.0105	U	U	N
PCB-006	PCB-006		0.00165	0.00527	U	U		0.00165	0.00527	U	U	N
PCB-007/009	PCB-007/009		0.00163	0.0105	U	U		0.00163	0.0105	U	U	N
PCB-011	PCB-011	0.00843	0.00001	0.00527			0.00843	0.00001	0.00527			Y
PCB-012/013	PCB-012/013		0.00144	0.0105	U	U		0.00144	0.0105	U	U	N
PCB-014	PCB-014		0.00127	0.00527	U	U		0.00127	0.00527	U	U	N
PCB-015	PCB-015	0.0137	0.00001	0.00527			0.0137	0.00001	0.00527			Y
PCB-016/032	PCB-016/032	0.0483	0.00001	0.0105			0.0483	0.00001	0.0105			Y
PCB-017	PCB-017	0.019	0.00001	0.00527			0.019	0.00001	0.00527			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-018	PCB-018	0.0498	0.00001	0.00527			0.0498	0.00001	0.00527			Y
PCB-019	PCB-019	0.0526	0.00001	0.00527			0.0526	0.00001	0.00527			Y
PCB-020/021/033	PCB-020/021/033		0.00172	0.0158	U	U		0.00172	0.0158	U	U	N
PCB-022	PCB-022	0.0038	0.00001	0.00527	J	J	0.0038	0.00001	0.00527	J	J	Y
PCB-023	PCB-023		0.00163	0.00527	U	U		0.00163	0.00527	U	U	N
PCB-024/027	PCB-024/027	0.0169	0.00001	0.0105			0.0169	0.00001	0.0105			Y
PCB-025	PCB-025		0.00175	0.00527	U	U		0.00175	0.00527	U	U	N
PCB-026	PCB-026		0.00335	0.00527	UM	UM		0.00335	0.00527	UM	UM	N
PCB-028	PCB-028	0.0202	0.00001	0.00527			0.0202	0.00001	0.00527			Y
PCB-029	PCB-029		0.00157	0.00527	U	U		0.00157	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-030	PCB-030		0.000567	0.00527	U	U		0.000567	0.00527	U	U	N
PCB-031	PCB-031	0.0105	0.00001	0.00527			0.0105	0.00001	0.00527			Y
PCB-034	PCB-034		0.00156	0.00527	U	U		0.00156	0.00527	U	U	N
PCB-035	PCB-035		0.00169	0.00527	U	U		0.00169	0.00527	U	U	N
PCB-036	PCB-036		0.00161	0.00527	U	U		0.00161	0.00527	U	U	N
PCB-037	PCB-037	0.00548	0.00001	0.00527			0.00548	0.00001	0.00527			Y
PCB-038	PCB-038		0.00167	0.00527	U	U		0.00167	0.00527	U	U	N
PCB-039	PCB-039		0.0015	0.00527	U	U		0.0015	0.00527	U	U	N
PCB-040	PCB-040	0.00635	0.00001	0.00527			0.00635	0.00001	0.00527			Y
PCB-042/059	PCB-042/059	0.016	0.00001	0.0105			0.016	0.00001	0.0105			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-043/049	PCB-043/049	0.0357	0.00001	0.0105			0.0357	0.00001	0.0105			Y
PCB-044	PCB-044	0.0374	0.00001	0.00527			0.0374	0.00001	0.00527			Y
PCB-045	PCB-045	0.0108	0.00001	0.00527			0.0108	0.00001	0.00527			Y
PCB-046	PCB-046		0.00303	0.00527	UM	UM		0.00303	0.00527	UM	UM	N
PCB-047	PCB-047		0.0125	0.0125	UM	UM		0.0125	0.0125	UM	UM	N
PCB-048/075	PCB-048/075	0.00556	0.00001	0.0105	J	J	0.00556	0.00001	0.0105	J	J	Y
PCB-050	PCB-050		0.00105	0.00527	U	U		0.00105	0.00527	U	U	N
PCB-051	PCB-051		0.00277	0.00527	UM	UM		0.00277	0.00527	UM	UM	N
PCB-052/069	PCB-052/069	0.0371	0.00001	0.0105			0.0371	0.00001	0.0105			Y
PCB-053	PCB-053	0.0101	0.00001	0.00527			0.0101	0.00001	0.00527			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-054	PCB-054		0.000841	0.00527	U	U		0.000841	0.00527	U	U	N
PCB-055	PCB-055		0.000581	0.00527	U	U		0.000581	0.00527	U	U	N
PCB-056/060	PCB-056/060	0.015	0.00001	0.0105			0.015	0.00001	0.0105			Y
PCB-057	PCB-057		0.000676	0.00527	U	U		0.000676	0.00527	U	U	N
PCB-058	PCB-058		0.000648	0.00527	U	U		0.000648	0.00527	U	U	N
PCB-061/070	PCB-061/070	0.0147	0.00001	0.0105			0.0147	0.00001	0.0105			Y
PCB-062	PCB-062		0.000733	0.00527	U	U		0.000733	0.00527	U	U	N
PCB-063	PCB-063	0.00133	0.00001	0.00527	J	J	0.00133	0.00001	0.00527	J	J	Y
PCB-065	PCB-065		0.000775	0.00527	U	U		0.000775	0.00527	U	U	N
PCB-066/076	PCB-066/076	0.0228	0.00001	0.0105			0.0228	0.00001	0.0105			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-067	PCB-067		0.00092	0.00527	UM	UM		0.00092	0.00527	UM	UM	N
PCB-068	PCB-068		0.000623	0.00527	U	U		0.000623	0.00527	U	U	N
PCB-073	PCB-073		0.000782	0.00527	U	U		0.000782	0.00527	U	U	N
PCB-074	PCB-074	0.0121	0.00001	0.00527			0.0121	0.00001	0.00527			Y
PCB-077	PCB-077	0.00217	0.00001	0.00527	J	J	0.00217	0.00001	0.00527	J	J	Y
PCB-078	PCB-078		0.000603	0.00527	U	U		0.000603	0.00527	U	U	N
PCB-079	PCB-079		0.000591	0.00527	U	U		0.000591	0.00527	U	U	N
PCB-080	PCB-080		0.000533	0.00527	U	U		0.000533	0.00527	U	U	N
PCB-081	PCB-081		0.000565	0.00527	U	U		0.000565	0.00527	U	U	N
PCB-082	PCB-082	0.00344	0.00001	0.00527	J	J	0.00344	0.00001	0.00527	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-083	PCB-083		0.00073	0.00527	U	U		0.00073	0.00527	U	U	N
PCB-084/092	PCB-084/092		0.00731	0.0105	UM	UM		0.00731	0.0105	UM	UM	N
PCB-085/116	PCB-085/116		0.00309	0.0105	UM	UM		0.00309	0.0105	UM	UM	N
PCB-086	PCB-086		0.00125	0.00527	U	U		0.00125	0.00527	U	U	N
PCB-087/117/125	PCB-087/117/125		0.00707	0.0158	UM	UM		0.00707	0.0158	UM	UM	N
PCB-088/091	PCB-088/091	0.00334	0.00001	0.00527	J	J	0.00334	0.00001	0.00527	J	J	Y
PCB-089	PCB-089		0.00111	0.00527	U	U		0.00111	0.00527	U	U	N
PCB-090/101	PCB-090/101	0.0154	0.00001	0.0105			0.0154	0.00001	0.0105			Y
PCB-093	PCB-093		0.00113	0.00527	U	U		0.00113	0.00527	U	U	N
PCB-094	PCB-094		0.00106	0.00527	U	U		0.00106	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-095/098/102	PCB-095/098/102	0.0139	0.00001	0.0158	J	J	0.0139	0.00001	0.0158	J	J	Y
PCB-096	PCB-096		0.000848	0.00527	U	U		0.000848	0.00527	U	U	N
PCB-097	PCB-097	0.00586	0.00001	0.00527			0.00586	0.00001	0.00527			Y
PCB-099	PCB-099		0.00732	0.00732	UM	UM		0.00732	0.00732	UM	UM	N
PCB-100	PCB-100		0.000929	0.00527	U	U		0.000929	0.00527	U	U	N
PCB-103	PCB-103		0.000922	0.00527	U	U		0.000922	0.00527	U	U	N
PCB-104	PCB-104		0.000746	0.00527	U	U		0.000746	0.00527	U	U	N
PCB-105	PCB-105	0.00683	0.00001	0.00527			0.00683	0.00001	0.00527			Y
PCB-106/118	PCB-106/118	0.0114	0.00001	0.0105			0.0114	0.00001	0.0105			Y
PCB-107/109	PCB-107/109		0.000666	0.0105	U	U		0.000666	0.0105	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-108/112	PCB-108/112		0.000872	0.0105	U	U		0.000872	0.0105	U	U	N
PCB-110	PCB-110	0.0178	0.00001	0.00527			0.0178	0.00001	0.00527			Y
PCB-111/115	PCB-111/115		0.000668	0.0105	U	U		0.000668	0.0105	U	U	N
PCB-113	PCB-113		0.000822	0.00527	U	U		0.000822	0.00527	U	U	N
PCB-114	PCB-114		0.000975	0.00527	U	U		0.000975	0.00527	U	U	N
PCB-119	PCB-119		0.000664	0.00527	U	U		0.000664	0.00527	U	U	N
PCB-120	PCB-120		0.000615	0.00527	U	U		0.000615	0.00527	U	U	N
PCB-121	PCB-121		0.000704	0.00527	U	U		0.000704	0.00527	U	U	N
PCB-122	PCB-122		0.00107	0.00527	U	U		0.00107	0.00527	U	U	N
PCB-123	PCB-123		0.000667	0.00527	U	U		0.000667	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-124	PCB-124		0.000663	0.00527	U	U		0.000663	0.00527	U	U	N
PCB-126	PCB-126		0.00117	0.00527	U	U		0.00117	0.00527	U	U	N
PCB-127	PCB-127		0.00111	0.00527	U	U		0.00111	0.00527	U	U	N
PCB-128/162	PCB-128/162	0.00126	0.00001	0.0105	J	J	0.00126	0.00001	0.0105	J	J	Y
PCB-129	PCB-129		0.000838	0.00527	U	U		0.000838	0.00527	U	U	N
PCB-130	PCB-130		0.000905	0.00527	U	U		0.000905	0.00527	U	U	N
PCB-131/133	PCB-131/133		0.000816	0.0105	U	U		0.000816	0.0105	U	U	N
PCB-132/161	PCB-132/161	0.00233	0.00001	0.0105	J	J	0.00233	0.00001	0.0105	J	J	Y
PCB-134/143	PCB-134/143		0.000809	0.0105	U	U		0.000809	0.0105	U	U	N
PCB-135	PCB-135	0.00158	0.00001	0.00527	J	J	0.00158	0.00001	0.00527	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-136	PCB-136	0.00131	0.00001	0.00527	J	J	0.00131	0.00001	0.00527	J	J	Y
PCB-137	PCB-137		0.00073	0.00527	U	U		0.00073	0.00527	U	U	N
PCB-138/163/164	PCB-138/163/164	0.00762	0.00001	0.0158	J	J	0.00762	0.00001	0.0158	J	J	Y
PCB-139/149	PCB-139/149	0.00598	0.00001	0.0105	J	J	0.00598	0.00001	0.0105	J	J	Y
PCB-140	PCB-140		0.00122	0.00527	U	U		0.00122	0.00527	U	U	N
PCB-141	PCB-141		0.00108	0.00527	UM	UM		0.00108	0.00527	UM	UM	N
PCB-142	PCB-142		0.000843	0.00527	U	U		0.000843	0.00527	U	U	N
PCB-144	PCB-144		0.0011	0.00527	U	U		0.0011	0.00527	U	U	N
PCB-145	PCB-145		0.000905	0.00527	U	U		0.000905	0.00527	U	U	N
PCB-146/165	PCB-146/165	0.00127	0.00001	0.0105	J	J	0.00127	0.00001	0.0105	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-147	PCB-147		0.00125	0.00527	U	U		0.00125	0.00527	U	U	N
PCB-148	PCB-148		0.0012	0.00527	U	U		0.0012	0.00527	U	U	N
PCB-150	PCB-150		0.000883	0.00527	U	U		0.000883	0.00527	U	U	N
PCB-151	PCB-151		0.00131	0.00527	UM	UM		0.00131	0.00527	UM	UM	N
PCB-152	PCB-152		0.000871	0.00527	U	U		0.000871	0.00527	U	U	N
PCB-153	PCB-153		0.00564	0.00564	UM	UM		0.00564	0.00564	UM	UM	N
PCB-154	PCB-154		0.00109	0.00527	U	U		0.00109	0.00527	U	U	N
PCB-155	PCB-155	0.00113	0.00001	0.00527	J	J	0.00113	0.00001	0.00527	J	J	Y
PCB-156	PCB-156	0.000575	0.00001	0.00527	J	J	0.000575	0.00001	0.00527	J	J	Y
PCB-157	PCB-157		0.000557	0.00527	U	U		0.000557	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-158/160	PCB-158/160		0.00083	0.0105	UM	UM		0.00083	0.0105	UM	UM	N
PCB-159	PCB-159		0.000538	0.00527	U	U		0.000538	0.00527	U	U	N
PCB-166	PCB-166		0.000586	0.00527	U	U		0.000586	0.00527	U	U	N
PCB-167	PCB-167		0.000548	0.00527	U	U		0.000548	0.00527	U	U	N
PCB-168	PCB-168		0.000529	0.00527	U	U		0.000529	0.00527	U	U	N
PCB-169	PCB-169		0.000587	0.00527	U	U		0.000587	0.00527	U	U	N
PCB-170	PCB-170	0.00093	0.00001	0.00527	J	J	0.00093	0.00001	0.00527	J	J	Y
PCB-171	PCB-171		0.00035	0.00527	U	U		0.00035	0.00527	U	U	N
PCB-172	PCB-172		0.000365	0.00527	U	U		0.000365	0.00527	U	U	N
PCB-173	PCB-173		0.000431	0.00527	U	U		0.000431	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-174	PCB-174		0.000713	0.00527	UM	UM		0.000713	0.00527	UM	UM	N
PCB-175	PCB-175		0.000367	0.00527	U	U		0.000367	0.00527	U	U	N
PCB-176	PCB-176		0.00027	0.00527	U	U		0.00027	0.00527	U	U	N
PCB-177	PCB-177		0.00063	0.00527	UM	UM		0.00063	0.00527	UM	UM	N
PCB-178	PCB-178		0.000373	0.00527	U	U		0.000373	0.00527	U	U	N
PCB-179	PCB-179	0.000445	0.00001	0.00527	J	J	0.000445	0.00001	0.00527	J	J	Y
PCB-180	PCB-180	0.00234	0.00001	0.00527	J	J	0.00234	0.00001	0.00527	J	J	Y
PCB-181	PCB-181		0.000359	0.00527	U	U		0.000359	0.00527	U	U	N
PCB-182/187	PCB-182/187	0.00166	0.00001	0.0105	J	J	0.00166	0.00001	0.0105	J	J	Y
PCB-183	PCB-183	0.000571	0.00001	0.00527	J	J	0.000571	0.00001	0.00527	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-184	PCB-184		0.000713	0.00527	UM	UM		0.000713	0.00527	UM	UM	N
PCB-185	PCB-185		0.000362	0.00527	U	U		0.000362	0.00527	U	U	N
PCB-186	PCB-186		0.000269	0.00527	U	U		0.000269	0.00527	U	U	N
PCB-188	PCB-188		0.000268	0.00527	U	U		0.000268	0.00527	U	U	N
PCB-189	PCB-189		0.00023	0.00527	U	U		0.00023	0.00527	U	U	N
PCB-190	PCB-190		0.000266	0.00527	U	U		0.000266	0.00527	U	U	N
PCB-191	PCB-191		0.000264	0.00527	U	U		0.000264	0.00527	U	U	N
PCB-192	PCB-192		0.000281	0.00527	U	U		0.000281	0.00527	U	U	N
PCB-193	PCB-193		0.000271	0.00527	U	U		0.000271	0.00527	U	U	N
PCB-194	PCB-194		0.000926	0.00527	U	U		0.000926	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-195	PCB-195		0.00102	0.00527	U	U		0.00102	0.00527	U	U	N
PCB-196/203	PCB-196/203		0.000822	0.0105	U	U		0.000822	0.0105	U	U	N
PCB-197	PCB-197		0.000591	0.00527	U	U		0.000591	0.00527	U	U	N
PCB-198	PCB-198		0.000862	0.00527	U	U		0.000862	0.00527	U	U	N
PCB-199	PCB-199		0.000937	0.00527	U	U		0.000937	0.00527	U	U	N
PCB-200	PCB-200		0.000635	0.00527	U	U		0.000635	0.00527	U	U	N
PCB-201	PCB-201		0.000625	0.00527	U	U		0.000625	0.00527	U	U	N
PCB-202	PCB-202		0.000678	0.00527	U	U		0.000678	0.00527	U	U	N
PCB-204	PCB-204		0.000664	0.00527	U	U		0.000664	0.00527	U	U	N
PCB-205	PCB-205		0.000716	0.00527	U	U		0.000716	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-005
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	1700918-05
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-206	PCB-206		0.000524	0.00527	U	U		0.000524	0.00527	U	U	N
PCB-207	PCB-207		0.000329	0.00527	U	U		0.000329	0.00527	U	U	N
PCB-208	PCB-208		0.000335	0.00527	U	U		0.000335	0.00527	U	U	N
PCB-209	PCB-209		0.000473	0.00527	U	U		0.000473	0.00527	U	U	N
PCB-41/64/71/72	PCB-41/64/71/72	0.0363	0.00001	0.0211			0.0363	0.00001	0.0211			Y
Pentachlorobiphenyl	25429-29-2	0.078	0.00001	0.0001			0.078	0.00001	0.0001	J	J	Y
Tetrachlorobiphenyl	26914-33-0	0.264	0.00001	0.0001			0.264	0.00001	0.0001	J	J	Y
Total PCBs	1336-36-3	0.732	0.00001	0.0001		J	0.732	0.00001	0.0001	J	J	Y
Trichlorobiphenyl	25323-68-6	0.227	0.00001	0.0001			0.227	0.00001	0.0001	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Decachlorobiphenyl	2051-24-3		0.00156	0.0001	UM	UM		0.00156	0.0001	UM	UM	N
Dichlorobiphenyl	25512-42-9	5.03	0.00001	0.0001			5.03	0.00001	0.0001	J	J	Y
Heptachlorobiphenyl	28655-71-2	0.0944	0.00001	0.0001			0.0944	0.00001	0.0001	J	J	Y
Hexachlorobiphenyl	26601-64-9	0.296	0.00001	0.0001			0.296	0.00001	0.0001	J	J	Y
Monochlorobiphenyl	27323-18-8	0.276	0.00001	0.0001			0.276	0.00001	0.0001	J	J	Y
Nonachlorobiphenyl	53742-07-7	0.0105	0.00001	0.0001			0.0105	0.00001	0.0001	J	J	Y
Octachlorobiphenyl	55722-26-4	0.045	0.00001	0.0001			0.045	0.00001	0.0001	J	J	Y
PCB-001	PCB-001	0.232	0.00001	0.00513			0.232	0.00001	0.00513			Y
PCB-002	PCB-002	0.00276	0.00001	0.00513	J	J	0.00276	0.00001	0.00513	J	J	Y
PCB-003	PCB-003	0.0406	0.00001	0.00513			0.0406	0.00001	0.00513			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-004/010	PCB-004/010	4.62	0.00001	0.0103			4.62	0.00001	0.0103			Y
PCB-005/008	PCB-005/008	0.123	0.00001	0.0103			0.123	0.00001	0.0103			Y
PCB-006	PCB-006	0.0353	0.00001	0.00513			0.0353	0.00001	0.00513			Y
PCB-007/009	PCB-007/009	0.0102	0.00001	0.0103	J	J	0.0102	0.00001	0.0103	J	J	Y
PCB-011	PCB-011	0.0122	0.00001	0.00513			0.0122	0.00001	0.00513			Y
PCB-012/013	PCB-012/013	0.027	0.00001	0.0103			0.027	0.00001	0.0103			Y
PCB-014	PCB-014		0.00136	0.00513	U	U		0.00136	0.00513	U	U	N
PCB-015	PCB-015	0.207	0.00001	0.00513			0.207	0.00001	0.00513			Y
PCB-016/032	PCB-016/032	0.392	0.00001	0.0103			0.392	0.00001	0.0103			Y
PCB-017	PCB-017	0.23	0.00001	0.00513			0.23	0.00001	0.00513			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-018	PCB-018	0.325	0.00001	0.00513			0.325	0.00001	0.00513			Y
PCB-019	PCB-019	1.94	0.00001	0.00513			1.94	0.00001	0.00513			Y
PCB-020/021/033	PCB-020/021/033	0.0376	0.00001	0.0154			0.0376	0.00001	0.0154			Y
PCB-022	PCB-022	0.0326	0.00001	0.00513			0.0326	0.00001	0.00513			Y
PCB-023	PCB-023		0.00307	0.00513	U	U		0.00307	0.00513	U	U	N
PCB-024/027	PCB-024/027	0.549	0.00001	0.0103			0.549	0.00001	0.0103			Y
PCB-025	PCB-025	0.0261	0.00001	0.00513			0.0261	0.00001	0.00513			Y
PCB-026	PCB-026	0.0942	0.00001	0.00513			0.0942	0.00001	0.00513			Y
PCB-028	PCB-028	0.151	0.00001	0.00513			0.151	0.00001	0.00513			Y
PCB-029	PCB-029		0.00295	0.00513	U	U		0.00295	0.00513	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-030	PCB-030		0.000794	0.00513	U	U		0.000794	0.00513	U	U	N
PCB-031	PCB-031	0.141	0.00001	0.00513			0.141	0.00001	0.00513			Y
PCB-034	PCB-034	0.00772	0.00001	0.00513			0.00772	0.00001	0.00513			Y
PCB-035	PCB-035		0.00342	0.00513	U	U		0.00342	0.00513	U	U	N
PCB-036	PCB-036		0.00325	0.00513	U	U		0.00325	0.00513	U	U	N
PCB-037	PCB-037	0.04	0.00001	0.00513			0.04	0.00001	0.00513			Y
PCB-038	PCB-038	0.0183	0.00001	0.00513			0.0183	0.00001	0.00513			Y
PCB-039	PCB-039		0.00303	0.00513	U	U		0.00303	0.00513	U	U	N
PCB-040	PCB-040	0.0288	0.00001	0.00513			0.0288	0.00001	0.00513			Y
PCB-042/059	PCB-042/059	0.0732	0.00001	0.0103			0.0732	0.00001	0.0103			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-043/049	PCB-043/049	0.274	0.00001	0.0103			0.274	0.00001	0.0103			Y
PCB-044	PCB-044	0.148	0.00001	0.00513			0.148	0.00001	0.00513			Y
PCB-045	PCB-045	0.0552	0.00001	0.00513			0.0552	0.00001	0.00513			Y
PCB-046	PCB-046	0.0179	0.00001	0.00513			0.0179	0.00001	0.00513			Y
PCB-047	PCB-047	0.183	0.00001	0.00513			0.183	0.00001	0.00513			Y
PCB-048/075	PCB-048/075	0.0283	0.00001	0.0103			0.0283	0.00001	0.0103			Y
PCB-050	PCB-050	0.00419	0.00001	0.00513	J	J	0.00419	0.00001	0.00513	J	J	Y
PCB-051	PCB-051	0.0415	0.00001	0.00513			0.0415	0.00001	0.00513			Y
PCB-052/069	PCB-052/069	0.319	0.00001	0.0103			0.319	0.00001	0.0103			Y
PCB-053	PCB-053	0.17	0.00001	0.00513			0.17	0.00001	0.00513			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-054	PCB-054	0.0235	0.00001	0.00513			0.0235	0.00001	0.00513			Y
PCB-055	PCB-055	0.00264	0.00001	0.00513	J	J	0.00264	0.00001	0.00513	J	J	Y
PCB-056/060	PCB-056/060	0.0769	0.00001	0.0103			0.0769	0.00001	0.0103			Y
PCB-057	PCB-057	0.00376	0.00001	0.00513	J	J	0.00376	0.00001	0.00513	J	J	Y
PCB-058	PCB-058		0.000551	0.00513	U	U		0.000551	0.00513	U	U	N
PCB-061/070	PCB-061/070	0.0943	0.00001	0.0103			0.0943	0.00001	0.0103			Y
PCB-062	PCB-062		0.000672	0.00513	U	U		0.000672	0.00513	U	U	N
PCB-063	PCB-063	0.0162	0.00001	0.00513			0.0162	0.00001	0.00513			Y
PCB-065	PCB-065		0.000713	0.00513	U	U		0.000713	0.00513	U	U	N
PCB-066/076	PCB-066/076	0.118	0.00001	0.0103			0.118	0.00001	0.0103			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-067	PCB-067	0.00715	0.00001	0.00513			0.00715	0.00001	0.00513			Y
PCB-068	PCB-068	0.00764	0.00001	0.00513			0.00764	0.00001	0.00513			Y
PCB-073	PCB-073	0.0106	0.00001	0.00513			0.0106	0.00001	0.00513			Y
PCB-074	PCB-074	0.0685	0.00001	0.00513			0.0685	0.00001	0.00513			Y
PCB-077	PCB-077	0.0126	0.00001	0.00513			0.0126	0.00001	0.00513			Y
PCB-078	PCB-078		0.00055	0.00513	U	U		0.00055	0.00513	U	U	N
PCB-079	PCB-079	0.00192	0.00001	0.00513	J	J	0.00192	0.00001	0.00513	J	J	Y
PCB-080	PCB-080		0.000487	0.00513	U	U		0.000487	0.00513	U	U	N
PCB-081	PCB-081		0.000744	0.00513	UM	UM		0.000744	0.00513	UM	UM	N
PCB-082	PCB-082	0.0139	0.00001	0.00513			0.0139	0.00001	0.00513			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-083	PCB-083		0.000797	0.00513	U	U		0.000797	0.00513	U	U	N
PCB-084/092	PCB-084/092	0.07	0.00001	0.0103			0.07	0.00001	0.0103			Y
PCB-085/116	PCB-085/116	0.0217	0.00001	0.0103			0.0217	0.00001	0.0103			Y
PCB-086	PCB-086		0.00136	0.00513	U	U		0.00136	0.00513	U	U	N
PCB-087/117/125	PCB-087/117/125	0.0391	0.00001	0.0154			0.0391	0.00001	0.0154			Y
PCB-088/091	PCB-088/091	0.0374	0.00001	0.00513			0.0374	0.00001	0.00513			Y
PCB-089	PCB-089	0.00186	0.00001	0.00513	J	J	0.00186	0.00001	0.00513	J	J	Y
PCB-090/101	PCB-090/101	0.0889	0.00001	0.0103			0.0889	0.00001	0.0103			Y
PCB-093	PCB-093		0.00125	0.00513	U	U		0.00125	0.00513	U	U	N
PCB-094	PCB-094	0.00896	0.00001	0.00513			0.00896	0.00001	0.00513			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-095/098/102	PCB-095/098/102	0.116	0.00001	0.0154			0.116	0.00001	0.0154			Y
PCB-096	PCB-096	0.00607	0.00001	0.00513			0.00607	0.00001	0.00513			Y
PCB-097	PCB-097	0.0291	0.00001	0.00513			0.0291	0.00001	0.00513			Y
PCB-099	PCB-099	0.0529	0.00001	0.00513			0.0529	0.00001	0.00513			Y
PCB-100	PCB-100	0.00574	0.00001	0.00513			0.00574	0.00001	0.00513			Y
PCB-103	PCB-103		0.00522	0.00522	UM	UM		0.00522	0.00522	UM	UM	N
PCB-104	PCB-104		0.000847	0.00513	U	U		0.000847	0.00513	U	U	N
PCB-105	PCB-105	0.0315	0.00001	0.00513			0.0315	0.00001	0.00513			Y
PCB-106/118	PCB-106/118	0.0628	0.00001	0.0103			0.0628	0.00001	0.0103			Y
PCB-107/109	PCB-107/109	0.00641	0.00001	0.0103	J	J	0.00641	0.00001	0.0103	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-108/112	PCB-108/112		0.00939	0.0103	UM	UM		0.00939	0.0103	UM	UM	N
PCB-110	PCB-110	0.109	0.00001	0.00513			0.109	0.00001	0.00513			Y
PCB-111/115	PCB-111/115	0.00208	0.00001	0.0103	J	J	0.00208	0.00001	0.0103	J	J	Y
PCB-113	PCB-113	0.00226	0.00001	0.00513	J	J	0.00226	0.00001	0.00513	J	J	Y
PCB-114	PCB-114	0.00287	0.00001	0.00513	J	J	0.00287	0.00001	0.00513	J	J	Y
PCB-119	PCB-119		0.00399	0.00513	UM	UM		0.00399	0.00513	UM	UM	N
PCB-120	PCB-120		0.000671	0.00513	U	U		0.000671	0.00513	U	U	N
PCB-121	PCB-121		0.00078	0.00513	U	U		0.00078	0.00513	U	U	N
PCB-122	PCB-122		0.00135	0.00513	U	U		0.00135	0.00513	U	U	N
PCB-123	PCB-123	0.00137	0.00001	0.00513	J	J	0.00137	0.00001	0.00513	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-124	PCB-124	0.00319	0.00001	0.00513	J	J	0.00319	0.00001	0.00513	J	J	Y
PCB-126	PCB-126		0.0013	0.00513	U	U		0.0013	0.00513	U	U	N
PCB-127	PCB-127		0.0013	0.00513	U	U		0.0013	0.00513	U	U	N
PCB-128/162	PCB-128/162	0.00891	0.00001	0.0103	J	J	0.00891	0.00001	0.0103	J	J	Y
PCB-129	PCB-129	0.00287	0.00001	0.00513	J	J	0.00287	0.00001	0.00513	J	J	Y
PCB-130	PCB-130		0.00458	0.00513	UM	UM		0.00458	0.00513	UM	UM	N
PCB-131/133	PCB-131/133	0.00458	0.00001	0.0103	J	J	0.00458	0.00001	0.0103	J	J	Y
PCB-132/161	PCB-132/161	0.0172	0.00001	0.0103			0.0172	0.00001	0.0103			Y
PCB-134/143	PCB-134/143	0.0059	0.00001	0.0103	J	J	0.0059	0.00001	0.0103	J	J	Y
PCB-135	PCB-135	0.016	0.00001	0.00513			0.016	0.00001	0.00513			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-136	PCB-136	0.0116	0.00001	0.00513			0.0116	0.00001	0.00513			Y
PCB-137	PCB-137	0.0028	0.00001	0.00513	J	J	0.0028	0.00001	0.00513	J	J	Y
PCB-138/163/164	PCB-138/163/164	0.0656	0.00001	0.0154			0.0656	0.00001	0.0154			Y
PCB-139/149	PCB-139/149	0.0478	0.00001	0.0103			0.0478	0.00001	0.0103			Y
PCB-140	PCB-140		0.00112	0.00513	U	U		0.00112	0.00513	U	U	N
PCB-141	PCB-141	0.00736	0.00001	0.00513			0.00736	0.00001	0.00513			Y
PCB-142	PCB-142		0.00097	0.00513	U	U		0.00097	0.00513	U	U	N
PCB-144	PCB-144		0.00102	0.00513	U	U		0.00102	0.00513	U	U	N
PCB-145	PCB-145		0.000839	0.00513	U	U		0.000839	0.00513	U	U	N
PCB-146/165	PCB-146/165	0.0131	0.00001	0.0103			0.0131	0.00001	0.0103			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-147	PCB-147	0.00525	0.00001	0.00513			0.00525	0.00001	0.00513			Y
PCB-148	PCB-148		0.00111	0.00513	U	U		0.00111	0.00513	U	U	N
PCB-150	PCB-150		0.000821	0.00513	U	U		0.000821	0.00513	U	U	N
PCB-151	PCB-151	0.0243	0.00001	0.00513			0.0243	0.00001	0.00513			Y
PCB-152	PCB-152		0.000807	0.00513	U	U		0.000807	0.00513	U	U	N
PCB-153	PCB-153	0.0492	0.00001	0.00513			0.0492	0.00001	0.00513			Y
PCB-154	PCB-154	0.00321	0.00001	0.00513	J	J	0.00321	0.00001	0.00513	J	J	Y
PCB-155	PCB-155		0.000764	0.00513	U	U		0.000764	0.00513	U	U	N
PCB-156	PCB-156		0.00505	0.00513	UM	UM		0.00505	0.00513	UM	UM	N
PCB-157	PCB-157	0.0018	0.00001	0.00513	J	J	0.0018	0.00001	0.00513	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-158/160	PCB-158/160	0.00582	0.00001	0.0103	J	J	0.00582	0.00001	0.0103	J	J	Y
PCB-159	PCB-159	0.000749	0.00001	0.00513	J	J	0.000749	0.00001	0.00513	J	J	Y
PCB-166	PCB-166		0.000612	0.00513	U	U		0.000612	0.00513	U	U	N
PCB-167	PCB-167	0.00194	0.00001	0.00513	J	J	0.00194	0.00001	0.00513	J	J	Y
PCB-168	PCB-168		0.000608	0.00513	U	U		0.000608	0.00513	U	U	N
PCB-169	PCB-169		0.000603	0.00513	U	U		0.000603	0.00513	U	U	N
PCB-170	PCB-170	0.0105	0.00001	0.00513			0.0105	0.00001	0.00513			Y
PCB-171	PCB-171		0.00195	0.00513	UM	UM		0.00195	0.00513	UM	UM	N
PCB-172	PCB-172		0.00167	0.00513	UM	UM		0.00167	0.00513	UM	UM	N
PCB-173	PCB-173		0.000535	0.00513	U	U		0.000535	0.00513	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-174	PCB-174		0.01	0.01	UM	UM		0.01	0.01	UM	UM	N
PCB-175	PCB-175		0.000471	0.00513	U	U		0.000471	0.00513	U	U	N
PCB-176	PCB-176		0.0015	0.00513	UM	UM		0.0015	0.00513	UM	UM	N
PCB-177	PCB-177	0.00874	0.00001	0.00513			0.00874	0.00001	0.00513			Y
PCB-178	PCB-178	0.00681	0.00001	0.00513			0.00681	0.00001	0.00513			Y
PCB-179	PCB-179	0.00849	0.00001	0.00513			0.00849	0.00001	0.00513			Y
PCB-180	PCB-180	0.0261	0.00001	0.00513			0.0261	0.00001	0.00513			Y
PCB-181	PCB-181		0.000446	0.00513	U	U		0.000446	0.00513	U	U	N
PCB-182/187	PCB-182/187	0.0232	0.00001	0.0103			0.0232	0.00001	0.0103			Y
PCB-183	PCB-183	0.00666	0.00001	0.00513			0.00666	0.00001	0.00513			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-184	PCB-184		0.000375	0.00513	U	U		0.000375	0.00513	U	U	N
PCB-185	PCB-185	0.00124	0.00001	0.00513	J	J	0.00124	0.00001	0.00513	J	J	Y
PCB-186	PCB-186		0.000345	0.00513	U	U		0.000345	0.00513	U	U	N
PCB-188	PCB-188		0.000343	0.00513	U	U		0.000343	0.00513	U	U	N
PCB-189	PCB-189		0.000276	0.00513	U	U		0.000276	0.00513	U	U	N
PCB-190	PCB-190	0.00268	0.00001	0.00513	J	J	0.00268	0.00001	0.00513	J	J	Y
PCB-191	PCB-191		0.000327	0.00513	U	U		0.000327	0.00513	U	U	N
PCB-192	PCB-192		0.000349	0.00513	U	U		0.000349	0.00513	U	U	N
PCB-193	PCB-193		0.00124	0.00513	UM	UM		0.00124	0.00513	UM	UM	N
PCB-194	PCB-194	0.00827	0.00001	0.00513			0.00827	0.00001	0.00513			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-195	PCB-195	0.00373	0.00001	0.00513	J	J	0.00373	0.00001	0.00513	J	J	Y
PCB-196/203	PCB-196/203	0.0127	0.00001	0.0103			0.0127	0.00001	0.0103			Y
PCB-197	PCB-197		0.000669	0.00513	U	U		0.000669	0.00513	U	U	N
PCB-198	PCB-198		0.000975	0.00513	U	U		0.000975	0.00513	U	U	N
PCB-199	PCB-199	0.0143	0.00001	0.00513			0.0143	0.00001	0.00513			Y
PCB-200	PCB-200		0.000718	0.00513	U	U		0.000718	0.00513	U	U	N
PCB-201	PCB-201	0.00213	0.00001	0.00513	J	J	0.00213	0.00001	0.00513	J	J	Y
PCB-202	PCB-202	0.00385	0.00001	0.00513	J	J	0.00385	0.00001	0.00513	J	J	Y
PCB-204	PCB-204		0.000751	0.00513	U	U		0.000751	0.00513	U	U	N
PCB-205	PCB-205		0.000763	0.00513	U	U		0.000763	0.00513	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-006
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	1700918-06
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-206	PCB-206	0.00762	0.00001	0.00513			0.00762	0.00001	0.00513			Y
PCB-207	PCB-207	0.000608	0.00001	0.00513	J	J	0.000608	0.00001	0.00513	J	J	Y
PCB-208	PCB-208	0.00225	0.00001	0.00513	J	J	0.00225	0.00001	0.00513	J	J	Y
PCB-209	PCB-209		0.00156	0.00513	UM	UM		0.00156	0.00513	UM	UM	N
PCB-41/64/71/72	PCB-41/64/71/72	0.2	0.00001	0.0205			0.2	0.00001	0.0205			Y
Pentachlorobiphenyl	25429-29-2	0.713	0.00001	0.0001			0.713	0.00001	0.0001	J	J	Y
Tetrachlorobiphenyl	26914-33-0	1.99	0.00001	0.0001			1.99	0.00001	0.0001	J	J	Y
Total PCBs	1336-36-3	12.4	0.00001	0.0001		J	12.4	0.00001	0.0001	J	J	Y
Trichlorobiphenyl	25323-68-6	3.98	0.00001	0.0001			3.98	0.00001	0.0001			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Decachlorobiphenyl	2051-24-3		0.000493	0.0001	UM	UM		0.000493	0.0001	UM	UM	N
Dichlorobiphenyl	25512-42-9	2.75	0.00001	0.0001			2.75	0.00001	0.0001	J	J	Y
Heptachlorobiphenyl	28655-71-2	0.0259	0.00001	0.0001			0.0259	0.00001	0.0001	J	J	Y
Hexachlorobiphenyl	26601-64-9	0.145	0.00001	0.0001			0.145	0.00001	0.0001	J	J	Y
Monochlorobiphenyl	27323-18-8	0.0982	0.00001	0.0001			0.0982	0.00001	0.0001			Y
Nonachlorobiphenyl	53742-07-7	0.00169	0.00001	0.0001			0.00169	0.00001	0.0001	J	J	Y
Octachlorobiphenyl	55722-26-4	0.00957	0.00001	0.0001			0.00957	0.00001	0.0001	J	J	Y
PCB-001	PCB-001	0.0864	0.00001	0.00527			0.0864	0.00001	0.00527			Y
PCB-002	PCB-002		0.000885	0.00527	U	U		0.000885	0.00527	U	U	N
PCB-003	PCB-003	0.0118	0.00001	0.00527			0.0118	0.00001	0.00527			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-004/010	PCB-004/010	2.61	0.00001	0.0105			2.61	0.00001	0.0105			Y
PCB-005/008	PCB-005/008	0.0383	0.00001	0.0105			0.0383	0.00001	0.0105			Y
PCB-006	PCB-006	0.0107	0.00001	0.00527			0.0107	0.00001	0.00527			Y
PCB-007/009	PCB-007/009		0.00176	0.0105	U	U		0.00176	0.0105	U	U	N
PCB-011	PCB-011		0.00167	0.00527	U	U		0.00167	0.00527	U	U	N
PCB-012/013	PCB-012/013	0.00712	0.00001	0.0105	J	J	0.00712	0.00001	0.0105	J	J	Y
PCB-014	PCB-014		0.00148	0.00527	U	U		0.00148	0.00527	U	U	N
PCB-015	PCB-015	0.0862	0.00001	0.00527			0.0862	0.00001	0.00527			Y
PCB-016/032	PCB-016/032	0.22	0.00001	0.0105			0.22	0.00001	0.0105			Y
PCB-017	PCB-017	0.125	0.00001	0.00527			0.125	0.00001	0.00527			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-018	PCB-018	0.227	0.00001	0.00527			0.227	0.00001	0.00527			Y
PCB-019	PCB-019	0.938	0.00001	0.00527			0.938	0.00001	0.00527			Y
PCB-020/021/033	PCB-020/021/033	0.0194	0.00001	0.0158			0.0194	0.00001	0.0158			Y
PCB-022	PCB-022	0.0206	0.00001	0.00527			0.0206	0.00001	0.00527			Y
PCB-023	PCB-023		0.00335	0.00527	U	U		0.00335	0.00527	U	U	N
PCB-024/027	PCB-024/027	0.244	0.00001	0.0105			0.244	0.00001	0.0105			Y
PCB-025	PCB-025	0.0131	0.00001	0.00527			0.0131	0.00001	0.00527			Y
PCB-026	PCB-026	0.0369	0.00001	0.00527			0.0369	0.00001	0.00527			Y
PCB-028	PCB-028	0.087	0.00001	0.00527			0.087	0.00001	0.00527			Y
PCB-029	PCB-029		0.00323	0.00527	U	U		0.00323	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-030	PCB-030		0.00069	0.00527	U	U		0.00069	0.00527	U	U	N
PCB-031	PCB-031	0.0702	0.00001	0.00527			0.0702	0.00001	0.00527			Y
PCB-034	PCB-034		0.00321	0.00527	U	U		0.00321	0.00527	U	U	N
PCB-035	PCB-035		0.00344	0.00527	U	U		0.00344	0.00527	U	U	N
PCB-036	PCB-036		0.00326	0.00527	U	U		0.00326	0.00527	U	U	N
PCB-037	PCB-037	0.0203	0.00001	0.00527			0.0203	0.00001	0.00527			Y
PCB-038	PCB-038	0.00794	0.00001	0.00527			0.00794	0.00001	0.00527			Y
PCB-039	PCB-039		0.00304	0.00527	U	U		0.00304	0.00527	U	U	N
PCB-040	PCB-040	0.0251	0.00001	0.00527			0.0251	0.00001	0.00527			Y
PCB-042/059	PCB-042/059	0.0544	0.00001	0.0105			0.0544	0.00001	0.0105			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-043/049	PCB-043/049	0.148	0.00001	0.0105			0.148	0.00001	0.0105			Y
PCB-044	PCB-044	0.125	0.00001	0.00527			0.125	0.00001	0.00527			Y
PCB-045	PCB-045	0.0446	0.00001	0.00527			0.0446	0.00001	0.00527			Y
PCB-046	PCB-046		0.0123	0.0123	UM	UM		0.0123	0.0123	UM	UM	N
PCB-047	PCB-047	0.0861	0.00001	0.00527			0.0861	0.00001	0.00527			Y
PCB-048/075	PCB-048/075	0.0213	0.00001	0.0105			0.0213	0.00001	0.0105			Y
PCB-050	PCB-050	0.00185	0.00001	0.00527	J	J	0.00185	0.00001	0.00527	J	J	Y
PCB-051	PCB-051	0.0225	0.00001	0.00527			0.0225	0.00001	0.00527			Y
PCB-052/069	PCB-052/069	0.168	0.00001	0.0105			0.168	0.00001	0.0105			Y
PCB-053	PCB-053	0.0794	0.00001	0.00527			0.0794	0.00001	0.00527			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-054	PCB-054	0.0109	0.00001	0.00527			0.0109	0.00001	0.00527			Y
PCB-055	PCB-055		0.000738	0.00527	U	U		0.000738	0.00527	U	U	N
PCB-056/060	PCB-056/060	0.0529	0.00001	0.0105			0.0529	0.00001	0.0105			Y
PCB-057	PCB-057	0.0022	0.00001	0.00527	J	J	0.0022	0.00001	0.00527	J	J	Y
PCB-058	PCB-058		0.000774	0.00527	U	U		0.000774	0.00527	U	U	N
PCB-061/070	PCB-061/070	0.0617	0.00001	0.0105			0.0617	0.00001	0.0105			Y
PCB-062	PCB-062		0.000906	0.00527	U	U		0.000906	0.00527	U	U	N
PCB-063	PCB-063	0.008	0.00001	0.00527			0.008	0.00001	0.00527			Y
PCB-065	PCB-065		0.000956	0.00527	U	U		0.000956	0.00527	U	U	N
PCB-066/076	PCB-066/076	0.0755	0.00001	0.0105			0.0755	0.00001	0.0105			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-067	PCB-067	0.00406	0.00001	0.00527	J	J	0.00406	0.00001	0.00527	J	J	Y
PCB-068	PCB-068	0.00324	0.00001	0.00527	J	J	0.00324	0.00001	0.00527	J	J	Y
PCB-073	PCB-073	0.00365	0.00001	0.00527	J	J	0.00365	0.00001	0.00527	J	J	Y
PCB-074	PCB-074	0.043	0.00001	0.00527			0.043	0.00001	0.00527			Y
PCB-077	PCB-077	0.00639	0.00001	0.00527			0.00639	0.00001	0.00527			Y
PCB-078	PCB-078		0.000726	0.00527	U	U		0.000726	0.00527	U	U	N
PCB-079	PCB-079	0.00156	0.00001	0.00527	J	J	0.00156	0.00001	0.00527	J	J	Y
PCB-080	PCB-080		0.000679	0.00527	U	U		0.000679	0.00527	U	U	N
PCB-081	PCB-081		0.000552	0.00527	UM	UM		0.000552	0.00527	UM	UM	N
PCB-082	PCB-082	0.0096	0.00001	0.00527			0.0096	0.00001	0.00527			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-083	PCB-083		0.000904	0.00527	U	U		0.000904	0.00527	U	U	N
PCB-084/092	PCB-084/092	0.0363	0.00001	0.0105			0.0363	0.00001	0.0105			Y
PCB-085/116	PCB-085/116	0.0142	0.00001	0.0105			0.0142	0.00001	0.0105			Y
PCB-086	PCB-086		0.00154	0.00527	U	U		0.00154	0.00527	U	U	N
PCB-087/117/125	PCB-087/117/125	0.0261	0.00001	0.0158			0.0261	0.00001	0.0158			Y
PCB-088/091	PCB-088/091	0.019	0.00001	0.00527			0.019	0.00001	0.00527			Y
PCB-089	PCB-089	0.00205	0.00001	0.00527	J	J	0.00205	0.00001	0.00527	J	J	Y
PCB-090/101	PCB-090/101	0.0567	0.00001	0.0105			0.0567	0.00001	0.0105			Y
PCB-093	PCB-093	0.00225	0.00001	0.00527	J	J	0.00225	0.00001	0.00527	J	J	Y
PCB-094	PCB-094	0.00333	0.00001	0.00527	J	J	0.00333	0.00001	0.00527	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-095/098/102	PCB-095/098/102	0.0657	0.00001	0.0158			0.0657	0.00001	0.0158			Y
PCB-096	PCB-096	0.00294	0.00001	0.00527	J	J	0.00294	0.00001	0.00527	J	J	Y
PCB-097	PCB-097	0.0203	0.00001	0.00527			0.0203	0.00001	0.00527			Y
PCB-099	PCB-099	0.0336	0.00001	0.00527			0.0336	0.00001	0.00527			Y
PCB-100	PCB-100	0.00254	0.00001	0.00527	J	J	0.00254	0.00001	0.00527	J	J	Y
PCB-103	PCB-103	0.00187	0.00001	0.00527	J	J	0.00187	0.00001	0.00527	J	J	Y
PCB-104	PCB-104		0.00094	0.00527	U	U		0.00094	0.00527	U	U	N
PCB-105	PCB-105	0.018	0.00001	0.00527			0.018	0.00001	0.00527			Y
PCB-106/118	PCB-106/118	0.0361	0.00001	0.0105			0.0361	0.00001	0.0105			Y
PCB-107/109	PCB-107/109	0.00377	0.00001	0.0105	J	J	0.00377	0.00001	0.0105	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-108/112	PCB-108/112	0.00518	0.00001	0.0105	J	J	0.00518	0.00001	0.0105	J	J	Y
PCB-110	PCB-110	0.0692	0.00001	0.00527			0.0692	0.00001	0.00527			Y
PCB-111/115	PCB-111/115	0.0024	0.00001	0.0105	J	J	0.0024	0.00001	0.0105	J	J	Y
PCB-113	PCB-113		0.000976	0.00527	U	U		0.000976	0.00527	U	U	N
PCB-114	PCB-114	0.00204	0.00001	0.00527	J	J	0.00204	0.00001	0.00527	J	J	Y
PCB-119	PCB-119		0.00227	0.00527	UM	UM		0.00227	0.00527	UM	UM	N
PCB-120	PCB-120		0.000761	0.00527	U	U		0.000761	0.00527	U	U	N
PCB-121	PCB-121		0.000886	0.00527	U	U		0.000886	0.00527	U	U	N
PCB-122	PCB-122		0.00123	0.00527	U	U		0.00123	0.00527	U	U	N
PCB-123	PCB-123		0.000828	0.00527	U	U		0.000828	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-124	PCB-124		0.00128	0.00527	UM	UM		0.00128	0.00527	UM	UM	N
PCB-126	PCB-126		0.00118	0.00527	U	U		0.00118	0.00527	U	U	N
PCB-127	PCB-127		0.00118	0.00527	U	U		0.00118	0.00527	U	U	N
PCB-128/162	PCB-128/162	0.00454	0.00001	0.0105	J	J	0.00454	0.00001	0.0105	J	J	Y
PCB-129	PCB-129	0.00154	0.00001	0.00527	J	J	0.00154	0.00001	0.00527	J	J	Y
PCB-130	PCB-130	0.00278	0.00001	0.00527	J	J	0.00278	0.00001	0.00527	J	J	Y
PCB-131/133	PCB-131/133	0.00174	0.00001	0.0105	J	J	0.00174	0.00001	0.0105	J	J	Y
PCB-132/161	PCB-132/161	0.00874	0.00001	0.0105	J	J	0.00874	0.00001	0.0105	J	J	Y
PCB-134/143	PCB-134/143	0.00257	0.00001	0.0105	J	J	0.00257	0.00001	0.0105	J	J	Y
PCB-135	PCB-135	0.00734	0.00001	0.00527			0.00734	0.00001	0.00527			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-136	PCB-136	0.00503	0.00001	0.00527	J	J	0.00503	0.00001	0.00527	J	J	Y
PCB-137	PCB-137	0.00175	0.00001	0.00527	J	J	0.00175	0.00001	0.00527	J	J	Y
PCB-138/163/164	PCB-138/163/164	0.0296	0.00001	0.0158			0.0296	0.00001	0.0158			Y
PCB-139/149	PCB-139/149	0.0281	0.00001	0.0105			0.0281	0.00001	0.0105			Y
PCB-140	PCB-140		0.000887	0.00527	U	U		0.000887	0.00527	U	U	N
PCB-141	PCB-141	0.00345	0.00001	0.00527	J	J	0.00345	0.00001	0.00527	J	J	Y
PCB-142	PCB-142		0.000888	0.00527	U	U		0.000888	0.00527	U	U	N
PCB-144	PCB-144	0.00158	0.00001	0.00527	J	J	0.00158	0.00001	0.00527	J	J	Y
PCB-145	PCB-145		0.000659	0.00527	U	U		0.000659	0.00527	U	U	N
PCB-146/165	PCB-146/165	0.00564	0.00001	0.0105	J	J	0.00564	0.00001	0.0105	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-147	PCB-147	0.00216	0.00001	0.00527	J	J	0.00216	0.00001	0.00527	J	J	Y
PCB-148	PCB-148		0.000871	0.00527	U	U		0.000871	0.00527	U	U	N
PCB-150	PCB-150		0.000645	0.00527	U	U		0.000645	0.00527	U	U	N
PCB-151	PCB-151	0.0098	0.00001	0.00527			0.0098	0.00001	0.00527			Y
PCB-152	PCB-152		0.000634	0.00527	U	U		0.000634	0.00527	U	U	N
PCB-153	PCB-153	0.0236	0.00001	0.00527			0.0236	0.00001	0.00527			Y
PCB-154	PCB-154		0.000792	0.00527	U	U		0.000792	0.00527	U	U	N
PCB-155	PCB-155		0.000602	0.00527	U	U		0.000602	0.00527	U	U	N
PCB-156	PCB-156	0.00241	0.00001	0.00527	J	J	0.00241	0.00001	0.00527	J	J	Y
PCB-157	PCB-157		0.000525	0.00527	U	U		0.000525	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-158/160	PCB-158/160	0.00261	0.00001	0.0105	J	J	0.00261	0.00001	0.0105	J	J	Y
PCB-159	PCB-159		0.000506	0.00527	U	U		0.000506	0.00527	U	U	N
PCB-166	PCB-166		0.000552	0.00527	U	U		0.000552	0.00527	U	U	N
PCB-167	PCB-167		0.000517	0.00527	U	U		0.000517	0.00527	U	U	N
PCB-168	PCB-168		0.000557	0.00527	U	U		0.000557	0.00527	U	U	N
PCB-169	PCB-169		0.000535	0.00527	U	U		0.000535	0.00527	U	U	N
PCB-170	PCB-170	0.00307	0.00001	0.00527	J	J	0.00307	0.00001	0.00527	J	J	Y
PCB-171	PCB-171	0.00132	0.00001	0.00527	J	J	0.00132	0.00001	0.00527	J	J	Y
PCB-172	PCB-172		0.000491	0.00527	U	U		0.000491	0.00527	U	U	N
PCB-173	PCB-173		0.00058	0.00527	U	U		0.00058	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-174	PCB-174		0.000509	0.00527	U	U		0.000509	0.00527	U	U	N
PCB-175	PCB-175		0.000513	0.00527	U	U		0.000513	0.00527	U	U	N
PCB-176	PCB-176		0.000378	0.00527	U	U		0.000378	0.00527	U	U	N
PCB-177	PCB-177	0.00311	0.00001	0.00527	J	J	0.00311	0.00001	0.00527	J	J	Y
PCB-178	PCB-178	0.00243	0.00001	0.00527	J	J	0.00243	0.00001	0.00527	J	J	Y
PCB-179	PCB-179		0.00246	0.00527	UM	UM		0.00246	0.00527	UM	UM	N
PCB-180	PCB-180	0.00778	0.00001	0.00527			0.00778	0.00001	0.00527			Y
PCB-181	PCB-181		0.0033	0.00527	UM	UM		0.0033	0.00527	UM	UM	N
PCB-182/187	PCB-182/187	0.00665	0.00001	0.0105	J	J	0.00665	0.00001	0.0105	J	J	Y
PCB-183	PCB-183		0.00153	0.00527	UM	UM		0.00153	0.00527	UM	UM	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-184	PCB-184		0.000409	0.00527	U	U		0.000409	0.00527	U	U	N
PCB-185	PCB-185		0.000488	0.00527	U	U		0.000488	0.00527	U	U	N
PCB-186	PCB-186		0.000376	0.00527	U	U		0.000376	0.00527	U	U	N
PCB-188	PCB-188		0.000376	0.00527	U	U		0.000376	0.00527	U	U	N
PCB-189	PCB-189		0.000302	0.00527	U	U		0.000302	0.00527	U	U	N
PCB-190	PCB-190	0.000733	0.00001	0.00527	J	J	0.000733	0.00001	0.00527	J	J	Y
PCB-191	PCB-191		0.000356	0.00527	U	U		0.000356	0.00527	U	U	N
PCB-192	PCB-192		0.00038	0.00527	U	U		0.00038	0.00527	U	U	N
PCB-193	PCB-193	0.000762	0.00001	0.00527	J	J	0.000762	0.00001	0.00527	J	J	Y
PCB-194	PCB-194	0.00214	0.00001	0.00527	J	J	0.00214	0.00001	0.00527	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-195	PCB-195		0.000883	0.00527	U	U		0.000883	0.00527	U	U	N
PCB-196/203	PCB-196/203	0.00373	0.00001	0.0105	J	J	0.00373	0.00001	0.0105	J	J	Y
PCB-197	PCB-197		0.000711	0.00527	U	U		0.000711	0.00527	U	U	N
PCB-198	PCB-198		0.00104	0.00527	U	U		0.00104	0.00527	U	U	N
PCB-199	PCB-199	0.0037	0.00001	0.00527	J	J	0.0037	0.00001	0.00527	J	J	Y
PCB-200	PCB-200		0.000763	0.00527	U	U		0.000763	0.00527	U	U	N
PCB-201	PCB-201		0.000751	0.00527	U	U		0.000751	0.00527	U	U	N
PCB-202	PCB-202		0.000814	0.00527	U	U		0.000814	0.00527	U	U	N
PCB-204	PCB-204		0.000798	0.00527	U	U		0.000798	0.00527	U	U	N
PCB-205	PCB-205		0.000622	0.00527	U	U		0.000622	0.00527	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-007
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	1700918-07
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-206	PCB-206	0.00169	0.00001	0.00527	J	J	0.00169	0.00001	0.00527	J	J	Y
PCB-207	PCB-207		0.000252	0.00527	U	U		0.000252	0.00527	U	U	N
PCB-208	PCB-208		0.000573	0.00527	UM	UM		0.000573	0.00527	UM	UM	N
PCB-209	PCB-209		0.000493	0.00527	UM	UM		0.000493	0.00527	UM	UM	N
PCB-41/64/71/72	PCB-41/64/71/72	0.138	0.00001	0.0211			0.138	0.00001	0.0211			Y
Pentachlorobiphenyl	25429-29-2	0.433	0.00001	0.0001			0.433	0.00001	0.0001	J	J	Y
Tetrachlorobiphenyl	26914-33-0	1.19	0.00001	0.0001			1.19	0.00001	0.0001	J	J	Y
Total PCBs	1336-36-3	6.68	0.00001	0.0001		J	6.68	0.00001	0.0001	J	J	Y
Trichlorobiphenyl	25323-68-6	2.03	0.00001	0.0001			2.03	0.00001	0.0001			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Decachlorobiphenyl	2051-24-3	0.00581	0.00001	0.0001			0.00581	0.00001	0.0001			Y
Dichlorobiphenyl	25512-42-9	4.39	0.00001	0.0001			4.39	0.00001	0.0001			Y
Heptachlorobiphenyl	28655-71-2	0.2	0.00001	0.0001			0.2	0.00001	0.0001	J	J	Y
Hexachlorobiphenyl	26601-64-9	0.547	0.00001	0.0001			0.547	0.00001	0.0001	J	J	Y
Monochlorobiphenyl	27323-18-8	0.541	0.00001	0.0001			0.541	0.00001	0.0001			Y
Nonachlorobiphenyl	53742-07-7	0.0212	0.00001	0.0001			0.0212	0.00001	0.0001	J	J	Y
Octachlorobiphenyl	55722-26-4	0.0694	0.00001	0.0001			0.0694	0.00001	0.0001	J	J	Y
PCB-001	PCB-001	0.447	0.00001	0.00497			0.447	0.00001	0.00497			Y
PCB-002	PCB-002	0.00584	0.00001	0.00497			0.00584	0.00001	0.00497			Y
PCB-003	PCB-003	0.0878	0.00001	0.00497			0.0878	0.00001	0.00497			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-004/010	PCB-004/010	3.33	0.00001	0.00993			3.33	0.00001	0.00993			Y
PCB-005/008	PCB-005/008	0.399	0.00001	0.00993			0.399	0.00001	0.00993			Y
PCB-006	PCB-006	0.123	0.00001	0.00497			0.123	0.00001	0.00497			Y
PCB-007/009	PCB-007/009	0.0347	0.00001	0.00993			0.0347	0.00001	0.00993			Y
PCB-011	PCB-011	0.0264	0.00001	0.00497			0.0264	0.00001	0.00497			Y
PCB-012/013	PCB-012/013	0.0786	0.00001	0.00993			0.0786	0.00001	0.00993			Y
PCB-014	PCB-014		0.00102	0.00497	U	U		0.00102	0.00497	U	U	N
PCB-015	PCB-015	0.389	0.00001	0.00497			0.389	0.00001	0.00497			Y
PCB-016/032	PCB-016/032	0.376	0.00001	0.00993			0.376	0.00001	0.00993			Y
PCB-017	PCB-017	0.287	0.00001	0.00497			0.287	0.00001	0.00497			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-018	PCB-018	0.406	0.00001	0.00497			0.406	0.00001	0.00497			Y
PCB-019	PCB-019	0.966	0.00001	0.00497			0.966	0.00001	0.00497			Y
PCB-020/021/033	PCB-020/021/033	0.156	0.00001	0.0149			0.156	0.00001	0.0149			Y
PCB-022	PCB-022	0.185	0.00001	0.00497			0.185	0.00001	0.00497			Y
PCB-023	PCB-023	0.00121	0.00001	0.00497	J	J	0.00121	0.00001	0.00497	J	J	Y
PCB-024/027	PCB-024/027	0.398	0.00001	0.00993			0.398	0.00001	0.00993			Y
PCB-025	PCB-025	0.152	0.00001	0.00497			0.152	0.00001	0.00497			Y
PCB-026	PCB-026	0.369	0.00001	0.00497			0.369	0.00001	0.00497			Y
PCB-028	PCB-028	0.694	0.00001	0.00497			0.694	0.00001	0.00497			Y
PCB-029	PCB-029		0.00249	0.00497	UM	UM		0.00249	0.00497	UM	UM	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-030	PCB-030		0.000806	0.00497	UM	UM		0.000806	0.00497	UM	UM	N
PCB-031	PCB-031	0.87	0.00001	0.00497			0.87	0.00001	0.00497			Y
PCB-034	PCB-034	0.0225	0.00001	0.00497			0.0225	0.00001	0.00497			Y
PCB-035	PCB-035	0.00905	0.00001	0.00497			0.00905	0.00001	0.00497			Y
PCB-036	PCB-036	0.00222	0.00001	0.00497	J	J	0.00222	0.00001	0.00497	J	J	Y
PCB-037	PCB-037	0.18	0.00001	0.00497			0.18	0.00001	0.00497			Y
PCB-038	PCB-038	0.00836	0.00001	0.00497			0.00836	0.00001	0.00497			Y
PCB-039	PCB-039	0.00758	0.00001	0.00497			0.00758	0.00001	0.00497			Y
PCB-040	PCB-040	0.0606	0.00001	0.00497			0.0606	0.00001	0.00497			Y
PCB-042/059	PCB-042/059	0.144	0.00001	0.00993			0.144	0.00001	0.00993			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-043/049	PCB-043/049	0.538	0.00001	0.00993			0.538	0.00001	0.00993			Y
PCB-044	PCB-044	0.3	0.00001	0.00497			0.3	0.00001	0.00497			Y
PCB-045	PCB-045	0.103	0.00001	0.00497			0.103	0.00001	0.00497			Y
PCB-046	PCB-046	0.0379	0.00001	0.00497			0.0379	0.00001	0.00497			Y
PCB-047	PCB-047	0.318	0.00001	0.00497			0.318	0.00001	0.00497			Y
PCB-048/075	PCB-048/075	0.0541	0.00001	0.00993			0.0541	0.00001	0.00993			Y
PCB-050	PCB-050	0.00604	0.00001	0.00497			0.00604	0.00001	0.00497			Y
PCB-051	PCB-051	0.0586	0.00001	0.00497			0.0586	0.00001	0.00497			Y
PCB-052/069	PCB-052/069	0.606	0.00001	0.00993			0.606	0.00001	0.00993			Y
PCB-053	PCB-053	0.256	0.00001	0.00497			0.256	0.00001	0.00497			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-054	PCB-054	0.0233	0.00001	0.00497			0.0233	0.00001	0.00497			Y
PCB-055	PCB-055	0.00641	0.00001	0.00497			0.00641	0.00001	0.00497			Y
PCB-056/060	PCB-056/060	0.172	0.00001	0.00993			0.172	0.00001	0.00993			Y
PCB-057	PCB-057	0.00924	0.00001	0.00497			0.00924	0.00001	0.00497			Y
PCB-058	PCB-058	0.0015	0.00001	0.00497	J	J	0.0015	0.00001	0.00497	J	J	Y
PCB-061/070	PCB-061/070	0.232	0.00001	0.00993			0.232	0.00001	0.00993			Y
PCB-062	PCB-062		0.000845	0.00497	U	U		0.000845	0.00497	U	U	N
PCB-063	PCB-063	0.0337	0.00001	0.00497			0.0337	0.00001	0.00497			Y
PCB-065	PCB-065	0.00237	0.00001	0.00497	J	J	0.00237	0.00001	0.00497	J	J	Y
PCB-066/076	PCB-066/076	0.252	0.00001	0.00993			0.252	0.00001	0.00993			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-067	PCB-067	0.0155	0.00001	0.00497			0.0155	0.00001	0.00497			Y
PCB-068	PCB-068	0.0146	0.00001	0.00497			0.0146	0.00001	0.00497			Y
PCB-073	PCB-073	0.0167	0.00001	0.00497			0.0167	0.00001	0.00497			Y
PCB-074	PCB-074	0.151	0.00001	0.00497			0.151	0.00001	0.00497			Y
PCB-077	PCB-077	0.0334	0.00001	0.00497			0.0334	0.00001	0.00497			Y
PCB-078	PCB-078		0.000732	0.00497	U	U		0.000732	0.00497	U	U	N
PCB-079	PCB-079	0.00222	0.00001	0.00497	J	J	0.00222	0.00001	0.00497	J	J	Y
PCB-080	PCB-080		0.000635	0.00497	U	U		0.000635	0.00497	U	U	N
PCB-081	PCB-081		0.00115	0.00497	UM	UM		0.00115	0.00497	UM	UM	N
PCB-082	PCB-082	0.0247	0.00001	0.00497			0.0247	0.00001	0.00497			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-083	PCB-083		0.00113	0.00497	U	U		0.00113	0.00497	U	U	N
PCB-084/092	PCB-084/092	0.129	0.00001	0.00993			0.129	0.00001	0.00993			Y
PCB-085/116	PCB-085/116	0.0344	0.00001	0.00993			0.0344	0.00001	0.00993			Y
PCB-086	PCB-086		0.00158	0.00497	UM	UM		0.00158	0.00497	UM	UM	N
PCB-087/117/125	PCB-087/117/125	0.0653	0.00001	0.0149			0.0653	0.00001	0.0149			Y
PCB-088/091	PCB-088/091	0.0646	0.00001	0.00497			0.0646	0.00001	0.00497			Y
PCB-089	PCB-089	0.00332	0.00001	0.00497	J	J	0.00332	0.00001	0.00497	J	J	Y
PCB-090/101	PCB-090/101	0.154	0.00001	0.00993			0.154	0.00001	0.00993			Y
PCB-093	PCB-093		0.00167	0.00497	U	U		0.00167	0.00497	U	U	N
PCB-094	PCB-094	0.0132	0.00001	0.00497			0.0132	0.00001	0.00497			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-095/098/102	PCB-095/098/102	0.21	0.00001	0.0149			0.21	0.00001	0.0149			Y
PCB-096	PCB-096	0.00931	0.00001	0.00497			0.00931	0.00001	0.00497			Y
PCB-097	PCB-097	0.0482	0.00001	0.00497			0.0482	0.00001	0.00497			Y
PCB-099	PCB-099	0.0922	0.00001	0.00497			0.0922	0.00001	0.00497			Y
PCB-100	PCB-100	0.00699	0.00001	0.00497			0.00699	0.00001	0.00497			Y
PCB-103	PCB-103	0.00773	0.00001	0.00497			0.00773	0.00001	0.00497			Y
PCB-104	PCB-104		0.000789	0.00497	UM	UM		0.000789	0.00497	UM	UM	N
PCB-105	PCB-105	0.0682	0.00001	0.00497			0.0682	0.00001	0.00497			Y
PCB-106/118	PCB-106/118	0.125	0.00001	0.00993			0.125	0.00001	0.00993			Y
PCB-107/109	PCB-107/109	0.0133	0.00001	0.00993			0.0133	0.00001	0.00993			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-108/112	PCB-108/112	0.018	0.00001	0.00993			0.018	0.00001	0.00993			Y
PCB-110	PCB-110	0.19	0.00001	0.00497			0.19	0.00001	0.00497			Y
PCB-111/115	PCB-111/115	0.00314	0.00001	0.00993	J	J	0.00314	0.00001	0.00993	J	J	Y
PCB-113	PCB-113	0.00232	0.00001	0.00497	J	J	0.00232	0.00001	0.00497	J	J	Y
PCB-114	PCB-114	0.00591	0.00001	0.00497			0.00591	0.00001	0.00497			Y
PCB-119	PCB-119		0.00677	0.00677	UM	UM		0.00677	0.00677	UM	UM	N
PCB-120	PCB-120	0.00093	0.00001	0.00497	J	J	0.00093	0.00001	0.00497	J	J	Y
PCB-121	PCB-121		0.00104	0.00497	U	U		0.00104	0.00497	U	U	N
PCB-122	PCB-122	0.0021	0.00001	0.00497	J	J	0.0021	0.00001	0.00497	J	J	Y
PCB-123	PCB-123	0.00272	0.00001	0.00497	J	J	0.00272	0.00001	0.00497	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-124	PCB-124	0.00646	0.00001	0.00497			0.00646	0.00001	0.00497			Y
PCB-126	PCB-126	0.00103	0.00001	0.00497	J	J	0.00103	0.00001	0.00497	J	J	Y
PCB-127	PCB-127		0.000786	0.00497	U	U		0.000786	0.00497	U	U	N
PCB-128/162	PCB-128/162	0.0181	0.00001	0.00993			0.0181	0.00001	0.00993			Y
PCB-129	PCB-129	0.00462	0.00001	0.00497	J	J	0.00462	0.00001	0.00497	J	J	Y
PCB-130	PCB-130	0.00868	0.00001	0.00497			0.00868	0.00001	0.00497			Y
PCB-131/133	PCB-131/133	0.00884	0.00001	0.00993	J	J	0.00884	0.00001	0.00993	J	J	Y
PCB-132/161	PCB-132/161	0.0297	0.00001	0.00993			0.0297	0.00001	0.00993			Y
PCB-134/143	PCB-134/143	0.0103	0.00001	0.00993			0.0103	0.00001	0.00993			Y
PCB-135	PCB-135	0.0215	0.00001	0.00497			0.0215	0.00001	0.00497			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-136	PCB-136	0.0193	0.00001	0.00497			0.0193	0.00001	0.00497			Y
PCB-137	PCB-137	0.00549	0.00001	0.00497			0.00549	0.00001	0.00497			Y
PCB-138/163/164	PCB-138/163/164	0.132	0.00001	0.0149			0.132	0.00001	0.0149			Y
PCB-139/149	PCB-139/149	0.0727	0.00001	0.00993			0.0727	0.00001	0.00993			Y
PCB-140	PCB-140		0.00224	0.00497	U	U		0.00224	0.00497	U	U	N
PCB-141	PCB-141	0.0143	0.00001	0.00497			0.0143	0.00001	0.00497			Y
PCB-142	PCB-142		0.00144	0.00497	U	U		0.00144	0.00497	U	U	N
PCB-144	PCB-144		0.00127	0.00497	UM	UM		0.00127	0.00497	UM	UM	N
PCB-145	PCB-145		0.00166	0.00497	U	U		0.00166	0.00497	U	U	N
PCB-146/165	PCB-146/165	0.0241	0.00001	0.00993			0.0241	0.00001	0.00993			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-147	PCB-147	0.00632	0.00001	0.00497			0.00632	0.00001	0.00497			Y
PCB-148	PCB-148		0.0022	0.00497	U	U		0.0022	0.00497	U	U	N
PCB-150	PCB-150		0.00163	0.00497	U	U		0.00163	0.00497	U	U	N
PCB-151	PCB-151	0.0346	0.00001	0.00497			0.0346	0.00001	0.00497			Y
PCB-152	PCB-152		0.0016	0.00497	U	U		0.0016	0.00497	U	U	N
PCB-153	PCB-153	0.0999	0.00001	0.00497			0.0999	0.00001	0.00497			Y
PCB-154	PCB-154	0.00621	0.00001	0.00497			0.00621	0.00001	0.00497			Y
PCB-155	PCB-155		0.00152	0.00497	U	U		0.00152	0.00497	U	U	N
PCB-156	PCB-156	0.0128	0.00001	0.00497			0.0128	0.00001	0.00497			Y
PCB-157	PCB-157	0.00291	0.00001	0.00497	J	J	0.00291	0.00001	0.00497	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-158/160	PCB-158/160	0.0105	0.00001	0.00993			0.0105	0.00001	0.00993			Y
PCB-159	PCB-159		0.000864	0.00497	U	U		0.000864	0.00497	U	U	N
PCB-166	PCB-166		0.000941	0.00497	U	U		0.000941	0.00497	U	U	N
PCB-167	PCB-167	0.00494	0.00001	0.00497	J	J	0.00494	0.00001	0.00497	J	J	Y
PCB-168	PCB-168		0.000906	0.00497	U	U		0.000906	0.00497	U	U	N
PCB-169	PCB-169		0.000999	0.00497	U	U		0.000999	0.00497	U	U	N
PCB-170	PCB-170	0.0275	0.00001	0.00497			0.0275	0.00001	0.00497			Y
PCB-171	PCB-171	0.006	0.00001	0.00497			0.006	0.00001	0.00497			Y
PCB-172	PCB-172	0.00487	0.00001	0.00497	J	J	0.00487	0.00001	0.00497	J	J	Y
PCB-173	PCB-173		0.00113	0.00497	U	U		0.00113	0.00497	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-174	PCB-174	0.0148	0.00001	0.00497			0.0148	0.00001	0.00497			Y
PCB-175	PCB-175	0.000991	0.00001	0.00497	J	J	0.000991	0.00001	0.00497	J	J	Y
PCB-176	PCB-176	0.00193	0.00001	0.00497	J	J	0.00193	0.00001	0.00497	J	J	Y
PCB-177	PCB-177	0.0144	0.00001	0.00497			0.0144	0.00001	0.00497			Y
PCB-178	PCB-178	0.0111	0.00001	0.00497			0.0111	0.00001	0.00497			Y
PCB-179	PCB-179	0.0123	0.00001	0.00497			0.0123	0.00001	0.00497			Y
PCB-180	PCB-180	0.0527	0.00001	0.00497			0.0527	0.00001	0.00497			Y
PCB-181	PCB-181		0.00094	0.00497	U	U		0.00094	0.00497	U	U	N
PCB-182/187	PCB-182/187	0.0335	0.00001	0.00993			0.0335	0.00001	0.00993			Y
PCB-183	PCB-183	0.0104	0.00001	0.00497			0.0104	0.00001	0.00497			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-184	PCB-184		0.000702	0.00497	U	U		0.000702	0.00497	U	U	N
PCB-185	PCB-185		0.00173	0.00497	UM	UM		0.00173	0.00497	UM	UM	N
PCB-186	PCB-186		0.000646	0.00497	U	U		0.000646	0.00497	U	U	N
PCB-188	PCB-188		0.000645	0.00497	U	U		0.000645	0.00497	U	U	N
PCB-189	PCB-189	0.00181	0.00001	0.00497	J	J	0.00181	0.00001	0.00497	J	J	Y
PCB-190	PCB-190	0.00533	0.00001	0.00497			0.00533	0.00001	0.00497			Y
PCB-191	PCB-191		0.000692	0.00497	U	U		0.000692	0.00497	U	U	N
PCB-192	PCB-192		0.000737	0.00497	U	U		0.000737	0.00497	U	U	N
PCB-193	PCB-193	0.00267	0.00001	0.00497	J	J	0.00267	0.00001	0.00497	J	J	Y
PCB-194	PCB-194	0.0195	0.00001	0.00497			0.0195	0.00001	0.00497			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-195	PCB-195	0.00635	0.00001	0.00497			0.00635	0.00001	0.00497			Y
PCB-196/203	PCB-196/203	0.0159	0.00001	0.00993			0.0159	0.00001	0.00993			Y
PCB-197	PCB-197		0.00101	0.00497	U	U		0.00101	0.00497	U	U	N
PCB-198	PCB-198		0.00148	0.00497	U	U		0.00148	0.00497	U	U	N
PCB-199	PCB-199	0.0206	0.00001	0.00497			0.0206	0.00001	0.00497			Y
PCB-200	PCB-200		0.00113	0.00497	UM	UM		0.00113	0.00497	UM	UM	N
PCB-201	PCB-201		0.00171	0.00497	UM	UM		0.00171	0.00497	UM	UM	N
PCB-202	PCB-202	0.00618	0.00001	0.00497			0.00618	0.00001	0.00497			Y
PCB-204	PCB-204		0.00114	0.00497	U	U		0.00114	0.00497	U	U	N
PCB-205	PCB-205	0.000905	0.00001	0.00497	J	J	0.000905	0.00001	0.00497	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-008
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	1700918-08
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-206	PCB-206	0.015	0.00001	0.00497			0.015	0.00001	0.00497			Y
PCB-207	PCB-207	0.00124	0.00001	0.00497	J	J	0.00124	0.00001	0.00497	J	J	Y
PCB-208	PCB-208	0.00495	0.00001	0.00497	J	J	0.00495	0.00001	0.00497	J	J	Y
PCB-209	PCB-209	0.00581	0.00001	0.00497			0.00581	0.00001	0.00497			Y
PCB-41/64/71/72	PCB-41/64/71/72	0.405	0.00001	0.0199			0.405	0.00001	0.0199			Y
Pentachlorobiphenyl	25429-29-2	1.3	0.00001	0.0001			1.3	0.00001	0.0001	J	J	Y
Tetrachlorobiphenyl	26914-33-0	3.85	0.00001	0.0001			3.85	0.00001	0.0001	J	J	Y
Total PCBs	1336-36-3	16	0.00001	0.0001		J	16	0.00001	0.0001	J	J	Y
Trichlorobiphenyl	25323-68-6	5.09	0.00001	0.0001			5.09	0.00001	0.0001	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Decachlorobiphenyl	2051-24-3	0.00452	0.00001	0.0001			0.00452	0.00001	0.0001	J	J	Y
Dichlorobiphenyl	25512-42-9	5.32	0.00001	0.0001			5.32	0.00001	0.0001			Y
Heptachlorobiphenyl	28655-71-2	0.0974	0.00001	0.0001			0.0974	0.00001	0.0001	J	J	Y
Hexachlorobiphenyl	26601-64-9	0.358	0.00001	0.0001			0.358	0.00001	0.0001	J	J	Y
Monochlorobiphenyl	27323-18-8	0.217	0.00001	0.0001			0.217	0.00001	0.0001	J	J	Y
Nonachlorobiphenyl	53742-07-7	0.0264	0.00001	0.0001			0.0264	0.00001	0.0001	J	J	Y
Octachlorobiphenyl	55722-26-4	0.0205	0.00001	0.0001			0.0205	0.00001	0.0001	J	J	Y
PCB-001	PCB-001	0.178	0.00001	0.00537			0.178	0.00001	0.00537			Y
PCB-002	PCB-002	0.00259	0.00001	0.00537	J	J	0.00259	0.00001	0.00537	J	J	Y
PCB-003	PCB-003	0.0364	0.00001	0.00537			0.0364	0.00001	0.00537			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-004/010	PCB-004/010	4.78	0.00001	0.0107			4.78	0.00001	0.0107			Y
PCB-005/008	PCB-005/008	0.168	0.00001	0.0107			0.168	0.00001	0.0107			Y
PCB-006	PCB-006	0.0535	0.00001	0.00537			0.0535	0.00001	0.00537			Y
PCB-007/009	PCB-007/009	0.0121	0.00001	0.0107			0.0121	0.00001	0.0107			Y
PCB-011	PCB-011	0.0166	0.00001	0.00537			0.0166	0.00001	0.00537			Y
PCB-012/013	PCB-012/013	0.0364	0.00001	0.0107			0.0364	0.00001	0.0107			Y
PCB-014	PCB-014		0.000706	0.00537	U	U		0.000706	0.00537	U	U	N
PCB-015	PCB-015	0.251	0.00001	0.00537			0.251	0.00001	0.00537			Y
PCB-016/032	PCB-016/032	0.302	0.00001	0.0107			0.302	0.00001	0.0107			Y
PCB-017	PCB-017	0.229	0.00001	0.00537			0.229	0.00001	0.00537			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-018	PCB-018	0.299	0.00001	0.00537			0.299	0.00001	0.00537			Y
PCB-019	PCB-019	1.13	0.00001	0.00537			1.13	0.00001	0.00537			Y
PCB-020/021/033	PCB-020/021/033	0.052	0.00001	0.0161			0.052	0.00001	0.0161			Y
PCB-022	PCB-022	0.0752	0.00001	0.00537			0.0752	0.00001	0.00537			Y
PCB-023	PCB-023	0.00125	0.00001	0.00537	J	J	0.00125	0.00001	0.00537	J	J	Y
PCB-024/027	PCB-024/027	0.394	0.00001	0.0107			0.394	0.00001	0.0107			Y
PCB-025	PCB-025	0.0907	0.00001	0.00537			0.0907	0.00001	0.00537			Y
PCB-026	PCB-026	0.28	0.00001	0.00537			0.28	0.00001	0.00537			Y
PCB-028	PCB-028	0.398	0.00001	0.00537			0.398	0.00001	0.00537			Y
PCB-029	PCB-029	0.00118	0.00001	0.00537	J	J	0.00118	0.00001	0.00537	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-030	PCB-030	0.000923	0.00001	0.00537	J	J	0.000923	0.00001	0.00537	J	J	Y
PCB-031	PCB-031	0.542	0.00001	0.00537			0.542	0.00001	0.00537			Y
PCB-034	PCB-034	0.0172	0.00001	0.00537			0.0172	0.00001	0.00537			Y
PCB-035	PCB-035	0.00419	0.00001	0.00537	J	J	0.00419	0.00001	0.00537	J	J	Y
PCB-036	PCB-036	0.00167	0.00001	0.00537	J	J	0.00167	0.00001	0.00537	J	J	Y
PCB-037	PCB-037	0.0895	0.00001	0.00537			0.0895	0.00001	0.00537			Y
PCB-038	PCB-038	0.00706	0.00001	0.00537			0.00706	0.00001	0.00537			Y
PCB-039	PCB-039	0.00528	0.00001	0.00537	J	J	0.00528	0.00001	0.00537	J	J	Y
PCB-040	PCB-040	0.0524	0.00001	0.00537			0.0524	0.00001	0.00537			Y
PCB-042/059	PCB-042/059	0.122	0.00001	0.0107			0.122	0.00001	0.0107			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-043/049	PCB-043/049	0.48	0.00001	0.0107			0.48	0.00001	0.0107			Y
PCB-044	PCB-044	0.267	0.00001	0.00537			0.267	0.00001	0.00537			Y
PCB-045	PCB-045	0.0906	0.00001	0.00537			0.0906	0.00001	0.00537			Y
PCB-046	PCB-046	0.0339	0.00001	0.00537			0.0339	0.00001	0.00537			Y
PCB-047	PCB-047	0.276	0.00001	0.00537			0.276	0.00001	0.00537			Y
PCB-048/075	PCB-048/075	0.0429	0.00001	0.0107			0.0429	0.00001	0.0107			Y
PCB-050	PCB-050	0.00637	0.00001	0.00537			0.00637	0.00001	0.00537			Y
PCB-051	PCB-051	0.054	0.00001	0.00537			0.054	0.00001	0.00537			Y
PCB-052/069	PCB-052/069	0.551	0.00001	0.0107			0.551	0.00001	0.0107			Y
PCB-053	PCB-053	0.245	0.00001	0.00537			0.245	0.00001	0.00537			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-054	PCB-054	0.0251	0.00001	0.00537			0.0251	0.00001	0.00537			Y
PCB-055	PCB-055	0.00366	0.00001	0.00537	J	J	0.00366	0.00001	0.00537	J	J	Y
PCB-056/060	PCB-056/060	0.121	0.00001	0.0107			0.121	0.00001	0.0107			Y
PCB-057	PCB-057	0.00528	0.00001	0.00537	J	J	0.00528	0.00001	0.00537	J	J	Y
PCB-058	PCB-058	0.00144	0.00001	0.00537	J	J	0.00144	0.00001	0.00537	J	J	Y
PCB-061/070	PCB-061/070	0.161	0.00001	0.0107			0.161	0.00001	0.0107			Y
PCB-062	PCB-062		0.000581	0.00537	U	U		0.000581	0.00537	U	U	N
PCB-063	PCB-063	0.0234	0.00001	0.00537			0.0234	0.00001	0.00537			Y
PCB-065	PCB-065	0.00191	0.00001	0.00537	J	J	0.00191	0.00001	0.00537	J	J	Y
PCB-066/076	PCB-066/076	0.179	0.00001	0.0107			0.179	0.00001	0.0107			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-067	PCB-067	0.0102	0.00001	0.00537			0.0102	0.00001	0.00537			Y
PCB-068	PCB-068	0.0121	0.00001	0.00537			0.0121	0.00001	0.00537			Y
PCB-073	PCB-073	0.0127	0.00001	0.00537			0.0127	0.00001	0.00537			Y
PCB-074	PCB-074	0.108	0.00001	0.00537			0.108	0.00001	0.00537			Y
PCB-077	PCB-077	0.0176	0.00001	0.00537			0.0176	0.00001	0.00537			Y
PCB-078	PCB-078		0.000492	0.00537	U	U		0.000492	0.00537	U	U	N
PCB-079	PCB-079	0.00195	0.00001	0.00537	J	J	0.00195	0.00001	0.00537	J	J	Y
PCB-080	PCB-080		0.000427	0.00537	U	U		0.000427	0.00537	U	U	N
PCB-081	PCB-081		0.000668	0.00537	UM	UM		0.000668	0.00537	UM	UM	N
PCB-082	PCB-082	0.0184	0.00001	0.00537			0.0184	0.00001	0.00537			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-083	PCB-083		0.00109	0.00537	U	U		0.00109	0.00537	U	U	N
PCB-084/092	PCB-084/092	0.102	0.00001	0.0107			0.102	0.00001	0.0107			Y
PCB-085/116	PCB-085/116	0.029	0.00001	0.0107			0.029	0.00001	0.0107			Y
PCB-086	PCB-086		0.00158	0.00537	U	U		0.00158	0.00537	U	U	N
PCB-087/117/125	PCB-087/117/125	0.0523	0.00001	0.0161			0.0523	0.00001	0.0161			Y
PCB-088/091	PCB-088/091	0.0526	0.00001	0.00537			0.0526	0.00001	0.00537			Y
PCB-089	PCB-089	0.00337	0.00001	0.00537	J	J	0.00337	0.00001	0.00537	J	J	Y
PCB-090/101	PCB-090/101	0.126	0.00001	0.0107			0.126	0.00001	0.0107			Y
PCB-093	PCB-093		0.00169	0.00537	U	U		0.00169	0.00537	U	U	N
PCB-094	PCB-094	0.0113	0.00001	0.00537			0.0113	0.00001	0.00537			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-095/098/102	PCB-095/098/102	0.167	0.00001	0.0161			0.167	0.00001	0.0161			Y
PCB-096	PCB-096	0.00752	0.00001	0.00537			0.00752	0.00001	0.00537			Y
PCB-097	PCB-097	0.0401	0.00001	0.00537			0.0401	0.00001	0.00537			Y
PCB-099	PCB-099	0.0757	0.00001	0.00537			0.0757	0.00001	0.00537			Y
PCB-100	PCB-100	0.00656	0.00001	0.00537			0.00656	0.00001	0.00537			Y
PCB-103	PCB-103	0.00715	0.00001	0.00537			0.00715	0.00001	0.00537			Y
PCB-104	PCB-104	0.000821	0.00001	0.00537	J	J	0.000821	0.00001	0.00537	J	J	Y
PCB-105	PCB-105	0.0448	0.00001	0.00537			0.0448	0.00001	0.00537			Y
PCB-106/118	PCB-106/118	0.085	0.00001	0.0107			0.085	0.00001	0.0107			Y
PCB-107/109	PCB-107/109	0.0096	0.00001	0.0107	J	J	0.0096	0.00001	0.0107	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-108/112	PCB-108/112	0.0131	0.00001	0.0107			0.0131	0.00001	0.0107			Y
PCB-110	PCB-110	0.151	0.00001	0.00537			0.151	0.00001	0.00537			Y
PCB-111/115	PCB-111/115	0.00293	0.00001	0.0107	J	J	0.00293	0.00001	0.0107	J	J	Y
PCB-113	PCB-113	0.00185	0.00001	0.00537	J	J	0.00185	0.00001	0.00537	J	J	Y
PCB-114	PCB-114	0.00371	0.00001	0.00537	J	J	0.00371	0.00001	0.00537	J	J	Y
PCB-119	PCB-119	0.00648	0.00001	0.00537			0.00648	0.00001	0.00537			Y
PCB-120	PCB-120		0.000921	0.00537	U	U		0.000921	0.00537	U	U	N
PCB-121	PCB-121		0.00105	0.00537	U	U		0.00105	0.00537	U	U	N
PCB-122	PCB-122		0.00109	0.00537	UM	UM		0.00109	0.00537	UM	UM	N
PCB-123	PCB-123	0.00193	0.00001	0.00537	J	J	0.00193	0.00001	0.00537	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-124	PCB-124	0.00473	0.00001	0.00537	J	J	0.00473	0.00001	0.00537	J	J	Y
PCB-126	PCB-126		0.000928	0.00537	U	U		0.000928	0.00537	U	U	N
PCB-127	PCB-127		0.000915	0.00537	U	U		0.000915	0.00537	U	U	N
PCB-128/162	PCB-128/162	0.0111	0.00001	0.0107			0.0111	0.00001	0.0107			Y
PCB-129	PCB-129		0.00258	0.00537	UM	UM		0.00258	0.00537	UM	UM	N
PCB-130	PCB-130	0.00614	0.00001	0.00537			0.00614	0.00001	0.00537			Y
PCB-131/133	PCB-131/133	0.0052	0.00001	0.0107	J	J	0.0052	0.00001	0.0107	J	J	Y
PCB-132/161	PCB-132/161	0.0208	0.00001	0.0107			0.0208	0.00001	0.0107			Y
PCB-134/143	PCB-134/143	0.00856	0.00001	0.0107	J	J	0.00856	0.00001	0.0107	J	J	Y
PCB-135	PCB-135	0.0173	0.00001	0.00537			0.0173	0.00001	0.00537			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-136	PCB-136	0.0158	0.00001	0.00537			0.0158	0.00001	0.00537			Y
PCB-137	PCB-137	0.00331	0.00001	0.00537	J	J	0.00331	0.00001	0.00537	J	J	Y
PCB-138/163/164	PCB-138/163/164	0.0793	0.00001	0.0161			0.0793	0.00001	0.0161			Y
PCB-139/149	PCB-139/149	0.0577	0.00001	0.0107			0.0577	0.00001	0.0107			Y
PCB-140	PCB-140		0.00173	0.00537	U	U		0.00173	0.00537	U	U	N
PCB-141	PCB-141	0.00781	0.00001	0.00537			0.00781	0.00001	0.00537			Y
PCB-142	PCB-142		0.000986	0.00537	U	U		0.000986999	0.00537	U	U	N
PCB-144	PCB-144		0.00156	0.00537	U	U		0.00156	0.00537	U	U	N
PCB-145	PCB-145		0.00128	0.00537	U	U		0.00128	0.00537	U	U	N
PCB-146/165	PCB-146/165	0.0151	0.00001	0.0107			0.0151	0.00001	0.0107			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-147	PCB-147	0.00595	0.00001	0.00537			0.00595	0.00001	0.00537			Y
PCB-148	PCB-148		0.0017	0.00537	U	U		0.0017	0.00537	U	U	N
PCB-150	PCB-150		0.00126	0.00537	U	U		0.00126	0.00537	U	U	N
PCB-151	PCB-151	0.0257	0.00001	0.00537			0.0257	0.00001	0.00537			Y
PCB-152	PCB-152		0.00124	0.00537	U	U		0.00124	0.00537	U	U	N
PCB-153	PCB-153	0.058	0.00001	0.00537			0.058	0.00001	0.00537			Y
PCB-154	PCB-154	0.00439	0.00001	0.00537	J	J	0.00439	0.00001	0.00537	J	J	Y
PCB-155	PCB-155		0.00117	0.00537	U	U		0.00117	0.00537	U	U	N
PCB-156	PCB-156	0.00676	0.00001	0.00537			0.00676	0.00001	0.00537			Y
PCB-157	PCB-157	0.00162	0.00001	0.00537	J	J	0.00162	0.00001	0.00537	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-158/160	PCB-158/160	0.00519	0.00001	0.0107	J	J	0.00519	0.00001	0.0107	J	J	Y
PCB-159	PCB-159		0.000612	0.00537	U	U		0.000612	0.00537	U	U	N
PCB-166	PCB-166		0.000667	0.00537	U	U		0.000667	0.00537	U	U	N
PCB-167	PCB-167	0.0023	0.00001	0.00537	J	J	0.0023	0.00001	0.00537	J	J	Y
PCB-168	PCB-168		0.000619	0.00537	U	U		0.000619	0.00537	U	U	N
PCB-169	PCB-169		0.000717	0.00537	U	U		0.000717	0.00537	U	U	N
PCB-170	PCB-170	0.0101	0.00001	0.00537			0.0101	0.00001	0.00537			Y
PCB-171	PCB-171		0.00197	0.00537	UM	UM		0.00197	0.00537	UM	UM	N
PCB-172	PCB-172	0.00197	0.00001	0.00537	J	J	0.00197	0.00001	0.00537	J	J	Y
PCB-173	PCB-173		0.000747	0.00537	U	U		0.000747	0.00537	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-174	PCB-174	0.0103	0.00001	0.00537			0.0103	0.00001	0.00537			Y
PCB-175	PCB-175		0.000557	0.00537	U	U		0.000557	0.00537	U	U	N
PCB-176	PCB-176		0.000845	0.00537	UM	UM		0.000845	0.00537	UM	UM	N
PCB-177	PCB-177	0.0097	0.00001	0.00537			0.0097	0.00001	0.00537			Y
PCB-178	PCB-178	0.00645	0.00001	0.00537			0.00645	0.00001	0.00537			Y
PCB-179	PCB-179	0.0076	0.00001	0.00537			0.0076	0.00001	0.00537			Y
PCB-180	PCB-180	0.0212	0.00001	0.00537			0.0212	0.00001	0.00537			Y
PCB-181	PCB-181		0.000623	0.00537	U	U		0.000623	0.00537	U	U	N
PCB-182/187	PCB-182/187	0.0205	0.00001	0.0107			0.0205	0.00001	0.0107			Y
PCB-183	PCB-183	0.00444	0.00001	0.00537	J	J	0.00444	0.00001	0.00537	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-184	PCB-184		0.000444	0.00537	U	U		0.000444	0.00537	U	U	N
PCB-185	PCB-185	0.00124	0.00001	0.00537	J	J	0.00124	0.00001	0.00537	J	J	Y
PCB-186	PCB-186		0.000409	0.00537	U	U		0.000409	0.00537	U	U	N
PCB-188	PCB-188		0.000408	0.00537	U	U		0.000408	0.00537	U	U	N
PCB-189	PCB-189		0.000371	0.00537	U	U		0.000371	0.00537	U	U	N
PCB-190	PCB-190	0.0027	0.00001	0.00537	J	J	0.0027	0.00001	0.00537	J	J	Y
PCB-191	PCB-191		0.000458	0.00537	U	U		0.000458	0.00537	U	U	N
PCB-192	PCB-192		0.000488	0.00537	U	U		0.000488	0.00537	U	U	N
PCB-193	PCB-193	0.00122	0.00001	0.00537	J	J	0.00122	0.00001	0.00537	J	J	Y
PCB-194	PCB-194	0.00799	0.00001	0.00537			0.00799	0.00001	0.00537			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-195	PCB-195		0.00243	0.00537	UM	UM		0.00243	0.00537	UM	UM	N
PCB-196/203	PCB-196/203	0.00972	0.00001	0.0107	J	J	0.00972	0.00001	0.0107	J	J	Y
PCB-197	PCB-197		0.000832	0.00537	U	U		0.000832	0.00537	U	U	N
PCB-198	PCB-198		0.00121	0.00537	U	U		0.00121	0.00537	U	U	N
PCB-199	PCB-199		0.013	0.013	UM	UM		0.013	0.013	UM	UM	N
PCB-200	PCB-200	0.00132	0.00001	0.00537	J	J	0.00132	0.00001	0.00537	J	J	Y
PCB-201	PCB-201	0.00145	0.00001	0.00537	J	J	0.00145	0.00001	0.00537	J	J	Y
PCB-202	PCB-202		0.00388	0.00537	UM	UM		0.00388	0.00537	UM	UM	N
PCB-204	PCB-204		0.000934	0.00537	U	U		0.000934	0.00537	U	U	N
PCB-205	PCB-205		0.000544	0.00537	U	U		0.000544	0.00537	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-009
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	1700918-09
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-206	PCB-206	0.0183	0.00001	0.00537			0.0183	0.00001	0.00537			Y
PCB-207	PCB-207	0.00137	0.00001	0.00537	J	J	0.00137	0.00001	0.00537	J	J	Y
PCB-208	PCB-208	0.0067	0.00001	0.00537			0.0067	0.00001	0.00537			Y
PCB-209	PCB-209	0.00452	0.00001	0.00537	J	J	0.00452	0.00001	0.00537	J	J	Y
PCB-41/64/71/72	PCB-41/64/71/72	0.332	0.00001	0.0215			0.332	0.00001	0.0215			Y
Pentachlorobiphenyl	25429-29-2	1.03	0.00001	0.0001			1.03	0.00001	0.0001	J	J	Y
Tetrachlorobiphenyl	26914-33-0	3.24	0.00001	0.0001			3.24	0.00001	0.0001	J	J	Y
Total PCBs	1336-36-3	14.2	0.00001	0.0001		J	14.2	0.00001	0.0001	J	J	Y
Trichlorobiphenyl	25323-68-6	3.92	0.00001	0.0001			3.92	0.00001	0.0001	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Decachlorobiphenyl	2051-24-3	0.00523	0.00001	0.0001			0.00523	0.00001	0.0001			Y
Dichlorobiphenyl	25512-42-9	5.29	0.00001	0.0001			5.29	0.00001	0.0001			Y
Heptachlorobiphenyl	28655-71-2	0.16	0.00001	0.0001			0.16	0.00001	0.0001	J	J	Y
Hexachlorobiphenyl	26601-64-9	0.562	0.00001	0.0001			0.562	0.00001	0.0001	J	J	Y
Monochlorobiphenyl	27323-18-8	0.531	0.00001	0.0001			0.531	0.00001	0.0001			Y
Nonachlorobiphenyl	53742-07-7	0.0203	0.00001	0.0001			0.0203	0.00001	0.0001			Y
Octachlorobiphenyl	55722-26-4	0.0552	0.00001	0.0001			0.0552	0.00001	0.0001	J	J	Y
PCB-001	PCB-001	0.442	0.00001	0.00506			0.442	0.00001	0.00506			Y
PCB-002	PCB-002	0.00579	0.00001	0.00506			0.00579	0.00001	0.00506			Y
PCB-003	PCB-003	0.0842	0.00001	0.00506			0.0842	0.00001	0.00506			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-004/010	PCB-004/010	4.35	0.00001	0.0101			4.35	0.00001	0.0101			Y
PCB-005/008	PCB-005/008	0.352	0.00001	0.0101			0.352	0.00001	0.0101			Y
PCB-006	PCB-006	0.105	0.00001	0.00506			0.105	0.00001	0.00506			Y
PCB-007/009	PCB-007/009	0.028	0.00001	0.0101			0.028	0.00001	0.0101			Y
PCB-011	PCB-011	0.0223	0.00001	0.00506			0.0223	0.00001	0.00506			Y
PCB-012/013	PCB-012/013	0.0711	0.00001	0.0101			0.0711	0.00001	0.0101			Y
PCB-014	PCB-014		0.000796	0.00506	U	U		0.000796	0.00506	U	U	N
PCB-015	PCB-015	0.364	0.00001	0.00506			0.364	0.00001	0.00506			Y
PCB-016/032	PCB-016/032	0.336	0.00001	0.0101			0.336	0.00001	0.0101			Y
PCB-017	PCB-017	0.251	0.00001	0.00506			0.251	0.00001	0.00506			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-018	PCB-018	0.323	0.00001	0.00506			0.323	0.00001	0.00506			Y
PCB-019	PCB-019	1.08	0.00001	0.00506			1.08	0.00001	0.00506			Y
PCB-020/021/033	PCB-020/021/033	0.116	0.00001	0.0152			0.116	0.00001	0.0152			Y
PCB-022	PCB-022	0.162	0.00001	0.00506			0.162	0.00001	0.00506			Y
PCB-023	PCB-023	0.00108	0.00001	0.00506	J	J	0.00108	0.00001	0.00506	J	J	Y
PCB-024/027	PCB-024/027	0.445	0.00001	0.0101			0.445	0.00001	0.0101			Y
PCB-025	PCB-025	0.126	0.00001	0.00506			0.126	0.00001	0.00506			Y
PCB-026	PCB-026	0.333	0.00001	0.00506			0.333	0.00001	0.00506			Y
PCB-028	PCB-028	0.623	0.00001	0.00506			0.623	0.00001	0.00506			Y
PCB-029	PCB-029	0.0023	0.00001	0.00506	J	J	0.0023	0.00001	0.00506	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-030	PCB-030	0.000686	0.00001	0.00506	J	J	0.000686	0.00001	0.00506	J	J	Y
PCB-031	PCB-031	0.732	0.00001	0.00506			0.732	0.00001	0.00506			Y
PCB-034	PCB-034	0.0227	0.00001	0.00506			0.0227	0.00001	0.00506			Y
PCB-035	PCB-035	0.00796	0.00001	0.00506			0.00796	0.00001	0.00506			Y
PCB-036	PCB-036	0.00198	0.00001	0.00506	J	J	0.00198	0.00001	0.00506	J	J	Y
PCB-037	PCB-037	0.154	0.00001	0.00506			0.154	0.00001	0.00506			Y
PCB-038	PCB-038	0.0104	0.00001	0.00506			0.0104	0.00001	0.00506			Y
PCB-039	PCB-039	0.00844	0.00001	0.00506			0.00844	0.00001	0.00506			Y
PCB-040	PCB-040	0.0592	0.00001	0.00506			0.0592	0.00001	0.00506			Y
PCB-042/059	PCB-042/059	0.152	0.00001	0.0101			0.152	0.00001	0.0101			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-043/049	PCB-043/049	0.577	0.00001	0.0101			0.577	0.00001	0.0101			Y
PCB-044	PCB-044	0.309	0.00001	0.00506			0.309	0.00001	0.00506			Y
PCB-045	PCB-045	0.0968	0.00001	0.00506			0.0968	0.00001	0.00506			Y
PCB-046	PCB-046	0.0325	0.00001	0.00506			0.0325	0.00001	0.00506			Y
PCB-047	PCB-047	0.357	0.00001	0.00506			0.357	0.00001	0.00506			Y
PCB-048/075	PCB-048/075	0.0562	0.00001	0.0101			0.0562	0.00001	0.0101			Y
PCB-050	PCB-050	0.00675	0.00001	0.00506			0.00675	0.00001	0.00506			Y
PCB-051	PCB-051	0.0617	0.00001	0.00506			0.0617	0.00001	0.00506			Y
PCB-052/069	PCB-052/069	0.662	0.00001	0.0101			0.662	0.00001	0.0101			Y
PCB-053	PCB-053	0.276	0.00001	0.00506			0.276	0.00001	0.00506			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-054	PCB-054	0.027	0.00001	0.00506			0.027	0.00001	0.00506			Y
PCB-055	PCB-055	0.00654	0.00001	0.00506			0.00654	0.00001	0.00506			Y
PCB-056/060	PCB-056/060	0.206	0.00001	0.0101			0.206	0.00001	0.0101			Y
PCB-057	PCB-057	0.00938	0.00001	0.00506			0.00938	0.00001	0.00506			Y
PCB-058	PCB-058	0.00152	0.00001	0.00506	J	J	0.00152	0.00001	0.00506	J	J	Y
PCB-061/070	PCB-061/070	0.264	0.00001	0.0101			0.264	0.00001	0.0101			Y
PCB-062	PCB-062		0.000748	0.00506	U	U		0.000748	0.00506	U	U	N
PCB-063	PCB-063	0.0354	0.00001	0.00506			0.0354	0.00001	0.00506			Y
PCB-065	PCB-065		0.000791	0.00506	U	U		0.000791	0.00506	U	U	N
PCB-066/076	PCB-066/076	0.313	0.00001	0.0101			0.313	0.00001	0.0101			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-067	PCB-067	0.0172	0.00001	0.00506			0.0172	0.00001	0.00506			Y
PCB-068	PCB-068	0.0159	0.00001	0.00506			0.0159	0.00001	0.00506			Y
PCB-073	PCB-073	0.0158	0.00001	0.00506			0.0158	0.00001	0.00506			Y
PCB-074	PCB-074	0.176	0.00001	0.00506			0.176	0.00001	0.00506			Y
PCB-077	PCB-077	0.0305	0.00001	0.00506			0.0305	0.00001	0.00506			Y
PCB-078	PCB-078		0.000733	0.00506	U	U		0.000733	0.00506	U	U	N
PCB-079	PCB-079	0.00243	0.00001	0.00506	J	J	0.00243	0.00001	0.00506	J	J	Y
PCB-080	PCB-080		0.000573	0.00506	U	U		0.000573	0.00506	U	U	N
PCB-081	PCB-081		0.00149	0.00506	UM	UM		0.00149	0.00506	UM	UM	N
PCB-082	PCB-082	0.0261	0.00001	0.00506			0.0261	0.00001	0.00506			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-083	PCB-083		0.00137	0.00506	U	U		0.00137	0.00506	U	U	N
PCB-084/092	PCB-084/092	0.134	0.00001	0.0101			0.134	0.00001	0.0101			Y
PCB-085/116	PCB-085/116	0.0427	0.00001	0.0101			0.0427	0.00001	0.0101			Y
PCB-086	PCB-086		0.00127	0.00506	UM	UM		0.00127	0.00506	UM	UM	N
PCB-087/117/125	PCB-087/117/125	0.0758	0.00001	0.0152			0.0758	0.00001	0.0152			Y
PCB-088/091	PCB-088/091	0.0723	0.00001	0.00506			0.0723	0.00001	0.00506			Y
PCB-089	PCB-089	0.00351	0.00001	0.00506	J	J	0.00351	0.00001	0.00506	J	J	Y
PCB-090/101	PCB-090/101	0.181	0.00001	0.0101			0.181	0.00001	0.0101			Y
PCB-093	PCB-093		0.00206	0.00506	U	U		0.00206	0.00506	U	U	N
PCB-094	PCB-094	0.0154	0.00001	0.00506			0.0154	0.00001	0.00506			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-095/098/102	PCB-095/098/102	0.22	0.00001	0.0152			0.22	0.00001	0.0152			Y
PCB-096	PCB-096	0.00895	0.00001	0.00506			0.00895	0.00001	0.00506			Y
PCB-097	PCB-097	0.056	0.00001	0.00506			0.056	0.00001	0.00506			Y
PCB-099	PCB-099	0.11	0.00001	0.00506			0.11	0.00001	0.00506			Y
PCB-100	PCB-100	0.0091	0.00001	0.00506			0.0091	0.00001	0.00506			Y
PCB-103	PCB-103	0.00883	0.00001	0.00506			0.00883	0.00001	0.00506			Y
PCB-104	PCB-104		0.000709	0.00506	UM	UM		0.000709	0.00506	UM	UM	N
PCB-105	PCB-105	0.0772	0.00001	0.00506			0.0772	0.00001	0.00506			Y
PCB-106/118	PCB-106/118	0.14	0.00001	0.0101			0.14	0.00001	0.0101			Y
PCB-107/109	PCB-107/109	0.0159	0.00001	0.0101			0.0159	0.00001	0.0101			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-108/112	PCB-108/112	0.0195	0.00001	0.0101			0.0195	0.00001	0.0101			Y
PCB-110	PCB-110	0.222	0.00001	0.00506			0.222	0.00001	0.00506			Y
PCB-111/115	PCB-111/115	0.00484	0.00001	0.0101	J	J	0.00484	0.00001	0.0101	J	J	Y
PCB-113	PCB-113		0.00152	0.00506	U	U		0.00152	0.00506	U	U	N
PCB-114	PCB-114	0.00609	0.00001	0.00506			0.00609	0.00001	0.00506			Y
PCB-119	PCB-119	0.00913	0.00001	0.00506			0.00913	0.00001	0.00506			Y
PCB-120	PCB-120	0.00126	0.00001	0.00506	J	J	0.00126	0.00001	0.00506	J	J	Y
PCB-121	PCB-121		0.00128	0.00506	U	U		0.00128	0.00506	U	U	N
PCB-122	PCB-122	0.00251	0.00001	0.00506	J	J	0.00251	0.00001	0.00506	J	J	Y
PCB-123	PCB-123	0.00352	0.00001	0.00506	J	J	0.00352	0.00001	0.00506	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-124	PCB-124	0.00687	0.00001	0.00506			0.00687	0.00001	0.00506			Y
PCB-126	PCB-126	0.0011	0.00001	0.00506	J	J	0.0011	0.00001	0.00506	J	J	Y
PCB-127	PCB-127		0.00126	0.00506	U	U		0.00126	0.00506	U	U	N
PCB-128/162	PCB-128/162	0.0177	0.00001	0.0101			0.0177	0.00001	0.0101			Y
PCB-129	PCB-129		0.00548	0.00548	UM	UM		0.00548	0.00548	UM	UM	N
PCB-130	PCB-130	0.0101	0.00001	0.00506			0.0101	0.00001	0.00506			Y
PCB-131/133	PCB-131/133	0.009	0.00001	0.0101	J	J	0.009	0.00001	0.0101	J	J	Y
PCB-132/161	PCB-132/161	0.0333	0.00001	0.0101			0.0333	0.00001	0.0101			Y
PCB-134/143	PCB-134/143	0.0117	0.00001	0.0101			0.0117	0.00001	0.0101			Y
PCB-135	PCB-135	0.0268	0.00001	0.00506			0.0268	0.00001	0.00506			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-136	PCB-136	0.0211	0.00001	0.00506			0.0211	0.00001	0.00506			Y
PCB-137	PCB-137	0.00655	0.00001	0.00506			0.00655	0.00001	0.00506			Y
PCB-138/163/164	PCB-138/163/164	0.129	0.00001	0.0152			0.129	0.00001	0.0152			Y
PCB-139/149	PCB-139/149	0.0867	0.00001	0.0101			0.0867	0.00001	0.0101			Y
PCB-140	PCB-140		0.0021	0.00506	U	U		0.0021	0.00506	U	U	N
PCB-141	PCB-141	0.0132	0.00001	0.00506			0.0132	0.00001	0.00506			Y
PCB-142	PCB-142		0.0015	0.00506	U	U		0.0015	0.00506	U	U	N
PCB-144	PCB-144	0.00154	0.00001	0.00506	J	J	0.00154	0.00001	0.00506	J	J	Y
PCB-145	PCB-145		0.00156	0.00506	U	U		0.00156	0.00506	U	U	N
PCB-146/165	PCB-146/165	0.0233	0.00001	0.0101			0.0233	0.00001	0.0101			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-147	PCB-147	0.00818	0.00001	0.00506			0.00818	0.00001	0.00506			Y
PCB-148	PCB-148		0.00206	0.00506	U	U		0.00206	0.00506	U	U	N
PCB-150	PCB-150		0.00153	0.00506	U	U		0.00153	0.00506	U	U	N
PCB-151	PCB-151	0.0377	0.00001	0.00506			0.0377	0.00001	0.00506			Y
PCB-152	PCB-152		0.0015	0.00506	U	U		0.0015	0.00506	U	U	N
PCB-153	PCB-153	0.0916	0.00001	0.00506			0.0916	0.00001	0.00506			Y
PCB-154	PCB-154	0.00661	0.00001	0.00506			0.00661	0.00001	0.00506			Y
PCB-155	PCB-155		0.00142	0.00506	U	U		0.00142	0.00506	U	U	N
PCB-156	PCB-156	0.0106	0.00001	0.00506			0.0106	0.00001	0.00506			Y
PCB-157	PCB-157	0.00258	0.00001	0.00506	J	J	0.00258	0.00001	0.00506	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-158/160	PCB-158/160	0.0107	0.00001	0.0101			0.0107	0.00001	0.0101			Y
PCB-159	PCB-159		0.000875	0.00506	U	U		0.000875	0.00506	U	U	N
PCB-166	PCB-166		0.000954	0.00506	U	U		0.000954	0.00506	U	U	N
PCB-167	PCB-167	0.00426	0.00001	0.00506	J	J	0.00426	0.00001	0.00506	J	J	Y
PCB-168	PCB-168		0.000943	0.00506	U	U		0.000943	0.00506	U	U	N
PCB-169	PCB-169		0.00102	0.00506	U	U		0.00102	0.00506	U	U	N
PCB-170	PCB-170	0.0154	0.00001	0.00506			0.0154	0.00001	0.00506			Y
PCB-171	PCB-171	0.00538	0.00001	0.00506			0.00538	0.00001	0.00506			Y
PCB-172	PCB-172	0.0039	0.00001	0.00506	J	J	0.0039	0.00001	0.00506	J	J	Y
PCB-173	PCB-173		0.00125	0.00506	U	U		0.00125	0.00506	U	U	N

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-174	PCB-174	0.0156	0.00001	0.00506			0.0156	0.00001	0.00506			Y
PCB-175	PCB-175	0.001	0.00001	0.00506	J	J	0.001	0.00001	0.00506	J	J	Y
PCB-176	PCB-176	0.00244	0.00001	0.00506	J	J	0.00244	0.00001	0.00506	J	J	Y
PCB-177	PCB-177	0.0144	0.00001	0.00506			0.0144	0.00001	0.00506			Y
PCB-178	PCB-178	0.0119	0.00001	0.00506			0.0119	0.00001	0.00506			Y
PCB-179	PCB-179	0.0111	0.00001	0.00506			0.0111	0.00001	0.00506			Y
PCB-180	PCB-180	0.0316	0.00001	0.00506			0.0316	0.00001	0.00506			Y
PCB-181	PCB-181		0.00104	0.00506	U	U		0.00104	0.00506	U	U	N
PCB-182/187	PCB-182/187	0.0321	0.00001	0.0101			0.0321	0.00001	0.0101			Y
PCB-183	PCB-183	0.00676	0.00001	0.00506			0.00676	0.00001	0.00506			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-184	PCB-184		0.000839	0.00506	U	U		0.000839	0.00506	U	U	N
PCB-185	PCB-185	0.00168	0.00001	0.00506	J	J	0.00168	0.00001	0.00506	J	J	Y
PCB-186	PCB-186		0.000772	0.00506	U	U		0.000772	0.00506	U	U	N
PCB-188	PCB-188		0.00077	0.00506	U	U		0.00077	0.00506	U	U	N
PCB-189	PCB-189	0.000791	0.00001	0.00506	J	J	0.000791	0.00001	0.00506	J	J	Y
PCB-190	PCB-190	0.00401	0.00001	0.00506	J	J	0.00401	0.00001	0.00506	J	J	Y
PCB-191	PCB-191		0.000764	0.00506	U	U		0.000764	0.00506	U	U	N
PCB-192	PCB-192		0.000814	0.00506	U	U		0.000814	0.00506	U	U	N
PCB-193	PCB-193	0.00208	0.00001	0.00506	J	J	0.00208	0.00001	0.00506	J	J	Y
PCB-194	PCB-194	0.0122	0.00001	0.00506			0.0122	0.00001	0.00506			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-195	PCB-195	0.00448	0.00001	0.00506	J	J	0.00448	0.00001	0.00506	J	J	Y
PCB-196/203	PCB-196/203	0.0132	0.00001	0.0101			0.0132	0.00001	0.0101			Y
PCB-197	PCB-197		0.00136	0.00506	U	U		0.00136	0.00506	U	U	N
PCB-198	PCB-198		0.00198	0.00506	U	U		0.00198	0.00506	U	U	N
PCB-199	PCB-199	0.0168	0.00001	0.00506			0.0168	0.00001	0.00506			Y
PCB-200	PCB-200	0.00111	0.00001	0.00506	J	J	0.00111	0.00001	0.00506	J	J	Y
PCB-201	PCB-201	0.00163	0.00001	0.00506	J	J	0.00163	0.00001	0.00506	J	J	Y
PCB-202	PCB-202	0.00531	0.00001	0.00506			0.00531	0.00001	0.00506			Y
PCB-204	PCB-204		0.00152	0.00506	U	U		0.00152	0.00506	U	U	N
PCB-205	PCB-205	0.000551	0.00001	0.00506	J	J	0.000551	0.00001	0.00506	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170718120918VISTA-010
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	1700918-10
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	ng/L
Lab Method	E1668C
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
PCB-206	PCB-206	0.0147	0.00001	0.00506			0.0147	0.00001	0.00506			Y
PCB-207	PCB-207		0.00149	0.00506	UM	UM		0.00149	0.00506	UM	UM	N
PCB-208	PCB-208	0.00555	0.00001	0.00506			0.00555	0.00001	0.00506			Y
PCB-209	PCB-209	0.00523	0.00001	0.00506			0.00523	0.00001	0.00506			Y
PCB-41/64/71/72	PCB-41/64/71/72	0.421	0.00001	0.0202			0.421	0.00001	0.0202			Y
Pentachlorobiphenyl	25429-29-2	1.47	0.00001	0.0001			1.47	0.00001	0.0001	J	J	Y
Tetrachlorobiphenyl	26914-33-0	4.19	0.00001	0.0001			4.19	0.00001	0.0001	J	J	Y
Total PCBs	1336-36-3	17	0.00001	0.0001		J	17	0.00001	0.0001	J	J	Y
Trichlorobiphenyl	25323-68-6	4.74	0.00001	0.0001			4.74	0.00001	0.0001	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

B. SDG 10388892

Phase 2 RAMP Validation 2017

Sample Delivery Group	10388892
Sys Sample Code	COC170515132619PACE-001
Sample Id	HFL-SVDB-T170515132020
Sample Start Dt	5/12/2017 9:24:00 AM
Lab Sample Id	10388892001
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	4.8	0.51	1			4.8	0.51	1			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170515132619PACE-002
Sample Id	HFL-SVDB-T170515132126
Sample Start Dt	5/15/2017 10:48:00 AM
Lab Sample Id	10388892002
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	4.4	0.5	1			4.4	0.5	1			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170515132619PACE-003
Sample Id	HFL-WAFO-T170515132245
Sample Start Dt	5/12/2017 10:22:00 AM
Lab Sample Id	10388892003
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	12.7	0.51	1			12.7	0.51	1			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170515132619PACE-004
Sample Id	OWS-WAFO-T170515132332
Sample Start Dt	5/15/2017 11:46:00 AM
Lab Sample Id	10388892004
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	13	0.51	1			13	0.51	1			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

C. SDG 10390069

Sample Delivery Group	10390069
Sys Sample Code	COC170524113802PACE-001
Sample Id	OWS-BAFA-T170524112919
Sample Start Dt	5/24/2017 9:30:00 AM
Lab Sample Id	10390069001
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	1.6	0.5	1			1.6	0.5	1			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170524113802PACE-003
Sample Id	OWS-ROIS-T170524113548
Sample Start Dt	5/24/2017 9:58:00 AM
Lab Sample Id	10390069002
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	1.3	0.5	1			1.3	0.5	1			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170524113802PACE-004
Sample Id	OWS-SCHU-T170524112607
Sample Start Dt	5/23/2017 12:01:00 PM
Lab Sample Id	10390069003
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	3.6	0.5	1		J	3.6	0.5	1			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170524113802PACE-005
Sample Id	OWS-THIS-T170524112744
Sample Start Dt	5/23/2017 12:53:00 PM
Lab Sample Id	10390069004
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	2.4	0.5	1		J	2.4	0.5	1			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170524113802PACE-006
Sample Id	OWS-WAFO-T170524112421
Sample Start Dt	5/23/2017 10:35:00 AM
Lab Sample Id	10390069005
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	8.3	0.5	1		J	8.3	0.5	1			Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

D. SDG 10390779

Phase 2 RAMP Validation 2017

Sample Delivery Group	10390779
Sys Sample Code	COC170531111504PACE-001
Sample Id	OWS-LHAL-T170531110644
Sample Start Dt	5/26/2017 10:27:00 AM
Lab Sample Id	10390779001
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	5.1	0.51	1		J	5.1	0.51	1	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170531111504PACE-002
Sample Id	OWS-LHPO-T170531110915
Sample Start Dt	5/26/2017 12:15:00 PM
Lab Sample Id	10390779002
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	15.3	0.5	1		J	15.3	0.5	1	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

Sample Delivery Group	
Sys Sample Code	COC170531111504PACE-003
Sample Id	OWS-WAFO-T170531111136
Sample Start Dt	5/31/2017 9:42:00 AM
Lab Sample Id	10390779003
Parent Sample Id	
Sample Type Code	ENV
Sample Matrix Code	W
Dilution Factor	1
Qc Level	Validated
Result Unit	mg/L
Lab Method	SM 2540D
Total Or Dissolved	N

Chemical Name	Cas Rn	Lab Result Value	Lab MDL	Lab RL	Lab Qualifier	Ver Qualifier	Validated Result Value	Validated MDL	Validated RL	Val Qualifier	Final Result Qualifier	Detect Flag
Total Suspended Solids	WQ001	17	0.5	1		J	17	0.5	1	J	J	Y

Laboratory Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UM- The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL. The EDL represents the maximum possible concentration.
B-The compound was detected in an associated method blank at a concentration exceeding the MDL/EDL.
J-Quantitation is approximate (estimated) due a concentration less than the RL but greater than the MDL/EDL.

Verification/Validated Final Result Qualifier Definitions:
U-The compound/analyte was analyzed for, but was not detected above the reported sample MDL/EDL.
UB-This compound/analyte should be considered "not detected" since it was detected in a blank at a similar level.
J-Quantitation is approximate (estimated) due to limitations identified during the quality assurance review (data validation).
N-The analysis indicates that there is presumptive evidence to make a "tentative identification" of this compound/analyte.
R-Unusable (rejected) result - compound/analyte may or may not be present in this sample.
UR-Unusable "not-detected" result; compound may or may not be present in this sample.
UJ-This compound/analyte was not detected, but the MDL/EDL and RL are estimated due to a bias identified during the quality assurance review.

SECTION 3

ELECTRONIC DATA VERIFICATION REPORTS

Sample Delivery Group: 1700918

07/Dec/2017

EVAL METHOD BLANKS LOG

No records found.

LAB CONTROL LOG

No records found.

LAB DUPLICATE LOG

No records found.

AIR PUMP RPD

No records found.

HOLDING TIME VERIFICATION LOG

No records found.

EVAL FIELD BLANKS LOG

ANALYSIS_DT	ANALYTE_NAME	BLANK_LIMIT	COLUMN_NUMBER_CODE	DT_STAMP	LAB_ANL_METH_CODE	LOG_ENTRY_TYPE	SAMPLE_PARTITION_CODE	SYS_SAMPLE_CODE	TEST_TYPE_CODE	UNIT
07/31/2017	Total PCBs (1336-36-3)	1.72000005841	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Trichlorobiphenyl (25323-68-6)	0.834999978542	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Pentachlorobiphenyl (25429-29-2)	0.10150000453	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Dichlorobiphenyl (25512-42-9)	0.253500007093	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Tetrachlorobiphenyl (26914-33-0)	0.509999990463	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Monochlorobiphenyl (27323-18-8)	0.0214500003494	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-037 (PCB-037)	0.0243999995291	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-031 (PCB-031)	0.0834999978542	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-020/021/033 (PCB-020/021/033)	0.0860000029206	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-022 (PCB-022)	0.0590000022203	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-024/027 (PCB-024/027)	0.0320499995723	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-028 (PCB-028)	0.110499998555	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-011 (PCB-011)	0.0694999983534	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)

07/31/2017	PCB-004/010 (PCB-004/010)	0.0659999996424	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-005/008 (PCB-005/008)	0.0774999987334	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-015 (PCB-015)	0.0402500014752	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-016/032 (PCB-016/032)	0.164000000805	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-017 (PCB-017)	0.0810000021011	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-018 (PCB-018)	0.148000000045	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-019 (PCB-019)	0.0466499989852	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-001 (PCB-001)	0.0214500003494	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-042/059 (PCB-042/059)	0.031500000041	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-043/049 (PCB-043/049)	0.0614999979734	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-044 (PCB-044)	0.08550000377	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-045 (PCB-045)	0.0285999989137	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-046 (PCB-046)	0.0150500005111	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-047 (PCB-047)	0.0304000009783	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-056/060 (PCB-056/060)	0.0236000004224	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-061/070 (PCB-061/070)	0.0350999995135	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-066/076 (PCB-066/076)	0.0254000001587	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-053 (PCB-053)	0.0249999994412	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-051 (PCB-051)	0.0136500003282	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-052/069 (PCB-052/069)	0.0685000000522	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-41/64/71/72 (PCB-41/64/71/72)	0.0645000021905	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)

					(68C)					
07/31/2017	PCB-084/092 (PCB-084/092)	0.012450000504	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-087/117/125 (PCB-087/117/125)	0.00554999976885	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-088/091 (PCB-088/091)	0.00735000008717	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-090/101 (PCB-090/101)	0.0143499998376	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-095/098/102 (PCB-095/098/102)	0.0258999993093	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-099 (PCB-099)	0.00684999977238	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-097 (PCB-097)	0.00569999974687	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-106/118 (PCB-106/118)	0.00875000027008	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	PCB-110 (PCB-110)	0.0147999997716	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Field Blank Evaluation results	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)

TOTAL PCB

ANALYSIS_DT	COLUMN_NUMBER_CODE	DT_STAMP	LAB_ANL_METH_CODE	LOG_ENTRY_TYPE	QUALIFIER	RESULT_VALUE	SAMPLE_PARTITION_CODE	SYS_SAMPLE_CODE	TEST_TYPE_CODE	UNIT
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)

			(68C)							
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	1.12000000477	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-001	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.344000011683	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-002	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
			Polychlorinated Biphenyls							

07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	(PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	10.1000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-003	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	8.96000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-004	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	8.96000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-004	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	8.96000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-004	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	8.96000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-004	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	8.96000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-004	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	8.96000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-004	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	8.96000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-004	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	8.96000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-004	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	8.96000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-004	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	8.96000003815	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-004	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)

07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	0.731999993324	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-005	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	12.3999996185	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-006	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)

			(68C)							
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)
07/31/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	6.67999982834	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-007	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	16	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-008	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	16	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-008	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	16	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-008	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	16	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-008	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	16	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-008	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	16	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-008	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	16	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-008	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	16	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-008	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	16	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-008	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
			Polychlorinated Biphenyls							

08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	(PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
08/01/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	14.1999998093	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-009	Initial Test (INT)	ng/L (NGL)
08/02/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	17	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-010	Initial Test (INT)	ng/L (NGL)
08/02/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	17	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-010	Initial Test (INT)	ng/L (NGL)
08/02/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	17	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-010	Initial Test (INT)	ng/L (NGL)
08/02/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	17	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-010	Initial Test (INT)	ng/L (NGL)
08/02/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	17	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-010	Initial Test (INT)	ng/L (NGL)
08/02/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	17	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-010	Initial Test (INT)	ng/L (NGL)
08/02/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	17	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-010	Initial Test (INT)	ng/L (NGL)
08/02/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	17	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-010	Initial Test (INT)	ng/L (NGL)
08/02/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	17	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-010	Initial Test (INT)	ng/L (NGL)
08/02/2017	Analysis Not GC Based (NAP)	10/12/2017	Polychlorinated Biphenyls (PCBs) by Method 1668C (68C)	Recalculate congener based total PCBs	J	17	Sample Partition Not Applicable (NAP)	COC170718120918VISTA-010	Initial Test (INT)	ng/L (NGL)

SURROGATE VERIFICATION LOG

No records found.

PERCENT SOLIDS VERIFICATION

No records found.

MATRIX SPIKE LOG

No records found.

Sample Delivery Group: 10388892

15/Mar/2018

EVAL METHOD BLANKS LOG
No records found.

LAB CONTROL LOG
No records found.

LAB DUPLICATE LOG
No records found.

AIR PUMP RPD
No records found.

HOLDING TIME VERIFICATION LOG
No records found.

EVAL FIELD BLANKS LOG
No records found.

TOTAL PCB
No records found.

SURROGATE VERIFICATION LOG
No records found.

PERCENT SOLIDS VERIFICATION
No records found.

MATRIX SPIKE LOG
No records found.

Sample Delivery Group: 10390069
15/Mar/2018

EVAL METHOD BLANKS LOG
No records found.

LAB CONTROL LOG
No records found.

LAB DUPLICATE LOG
No records found.

AIR PUMP RPD
No records found.

HOLDING TIME VERIFICATION LOG

ANALYSIS_DT	ANALYTE_NAME	CALC_HOLD_TIME	COLUMN_NUMBER_CODE	DT_STAMP	HOLDING_TIME_TYPE	LAB_ANL_METH_CODE	LOG_ENTRY_TYPE	MAX_HOLD_TIME	QUALIFIER	RESULT_UNIT_CODE	RESULT_VALUE	SAMPLE_PARTITION_CODE	SYS_SAMPLE_CODE	TEST_TYPE_CODE
05/30/2017	Total Suspended Solids (WQ001)	7.15666666667	Analysis Not GC Based (NAP)	06/07/2017	analysis	Standard Method for TSS (SM 2540D) (EP1)	Holding Time evaluation results	7	J		3.59999990463	Sample Partition Not Applicable (NAP)	COC170524113802PACE-004	Initial Test (INT)
05/30/2017	Total Suspended Solids (WQ001)	7.125	Analysis Not GC Based (NAP)	06/07/2017	analysis	Standard Method for TSS (SM 2540D) (EP1)	Holding Time evaluation results	7	J		2.40000009537	Sample Partition Not Applicable (NAP)	COC170524113802PACE-005	Initial Test (INT)
05/30/2017	Total Suspended Solids (WQ001)	7.25	Analysis Not GC Based (NAP)	06/07/2017	analysis	Standard Method for TSS (SM 2540D) (EP1)	Holding Time evaluation results	7	J		8.30000019073	Sample Partition Not Applicable (NAP)	COC170524113802PACE-006	Initial Test (INT)

in holding time by date

EVAL FIELD BLANKS LOG
No records found.

TOTAL PCB
No records found.

SURROGATE VERIFICATION LOG
No records found.

PERCENT SOLIDS VERIFICATION
No records found.

MATRIX SPIKE LOG
No records found.

Sample Delivery Group: 10390779
15/Mar/2018

EVAL METHOD BLANKS LOG
No records found.

LAB CONTROL LOG
No records found.

LAB DUPLICATE LOG

ANALYSIS_DT	ANALYTE_NAME	CALCULATE_DIFFERENCE	COLUMN_NUMBER_CODE	DIFFERENCE_LIMIT	DT_STAMP	DUPLICATE_RESULT_VALUE	DUPLICATE_SYS_SAMPLE_CODE	LAB_ANL_METH_CODE	LOG_ENTRY_TYPE	QUALIFIER	RESULT_VALUE	SAMPLE_PARTITION_CODE	SYS_SAMPLE_CODE	TEST_TYPE_CODE	UNIT
06/02/2017	Total Suspended Solids (WQ001)	21.0526364222	Analysis Not GC Based (NAP)	20	06/15/2017	6.30000019073	COC170531111504PACE-001LR	Standard Method for TSS (SM 2540D) (EP1)	Duplicate precision evaluation results	J	5.09999990463	Sample Partition Not Applicable (NAP)	COC170531111504PACE-001	Initial Test (INT)	mg/L (MGL)
06/02/2017	Total Suspended Solids (WQ001)	21.0526364222	Analysis Not GC Based (NAP)	20	06/15/2017	6.30000019073	COC170531111504PACE-001LR	Standard Method for TSS (SM 2540D) (EP1)	Duplicate precision evaluation results	J	6.30000019073	Sample Partition Not Applicable (NAP)	COC170531111504PACE-001LR	Initial Test (INT)	mg/L (MGL)
06/02/2017	Total Suspended Solids (WQ001)	21.0526364222	Analysis Not GC Based (NAP)	20	06/15/2017	6.30000019073	COC170531111504PACE-001LR	Standard Method for TSS (SM 2540D) (EP1)	Duplicate precision evaluation results	J	15.3000001907	Sample Partition Not Applicable (NAP)	COC170531111504PACE-002	Initial Test (INT)	mg/L (MGL)
06/02/2017	Total Suspended Solids (WQ001)	21.0526364222	Analysis Not GC Based (NAP)	20	06/15/2017	6.30000019073	COC170531111504PACE-001LR	Standard Method for TSS (SM 2540D) (EP1)	Duplicate precision evaluation results	J	17	Sample Partition Not Applicable (NAP)	COC170531111504PACE-003	Initial Test (INT)	mg/L (MGL)
06/02/2017	Total Suspended Solids (WQ001)	21.0526364222	Analysis Not GC Based (NAP)	20	06/15/2017	6.30000019073	COC170531111504PACE-001LR	Standard Method for TSS (SM 2540D) (EP1)	Duplicate precision evaluation results	J	89.5	Sample Partition Not Applicable (NAP)	COC170531111504PACE-01LCS	Initial Test (INT)	mg/L (MGL)
06/02/2017	Total Suspended Solids (WQ001)	21.0526364222	Analysis Not GC Based (NAP)	20	06/15/2017	6.30000019073	COC170531111504PACE-001LR	Standard Method for TSS (SM 2540D) (EP1)	Duplicate precision evaluation results	UJ		Sample Partition Not Applicable (NAP)	COC170531111504PACE-01MB	Initial Test (INT)	mg/L (MGL)

AIR PUMP RPD
No records found.

HOLDING TIME VERIFICATION LOG

ANALYSIS_DT	ANALYTE_NAME	CALC_HOLD_TIME	COLUMN_NUMBER_CODE	DT_STAMP	HOLDING_TIME_TYPE	LAB_ANL_METH_CODE	LOG_ENTRY_TYPE	MAX_HOLD_TIME	QUALIFIER	RESULT_UNIT_CODE	RESULT_VALUE	SAMPLE_PARTITION_CODE	SYS_SAMPLE_CODE	TEST_TYPE_CODE
06/02/2017	Total Suspended Solids (WQ001)	7.20833333333	Analysis Not GC Based (NAP)	06/15/2017	analysis	Standard Method for TSS (SM 2540D) (EP1)	Holding Time evaluation results	7	J		5.09999990463	Sample Partition Not Applicable (NAP)	COC170531111504PACE-001	Initial Test (INT)
06/02/2017	Total Suspended Solids (WQ001)	7.125	Analysis Not GC Based (NAP)	06/15/2017	analysis	Standard Method for TSS (SM 2540D) (EP1)	Holding Time evaluation results	7	J		15.3000001907	Sample Partition Not Applicable (NAP)	COC170531111504PACE-002	Initial Test (INT)

EVAL FIELD BLANKS LOG
No records found.

TOTAL PCB
No records found.

SURROGATE VERIFICATION LOG
No records found.

PERCENT SOLIDS VERIFICATION
No records found.

MATRIX SPIKE LOG
No records found.

In holding time
by date

SECTION 4

ORGANIC DATA SUPPORT DOCUMENTATION

ENVIRONMENTAL STANDARDS

ORGANIC ANALYSIS SUPPORT DOCUMENTATION

ESI project name:	GE Hudson River RAMP	Reviewed by:	THW
Sample Collection Dates:	5/15 – 5/31/17	Approved by:	MAM
Job Number:	20115678.H	Completion Date:	9/2017
Project Manager:	Meg Michell		
Laboratory:	Vista	Applicable Sample No's (✓)	Refer to Table 1 in the Quality Assurance Review

			Sample No.	Lab Control No.
Deliverable:	CLP (Full)	( )	WO 1700918	
	Level IV (Full)	(x)		
	Limited	( )		
	Other:			

The following table indicates criteria that were examined, the identified problems, and support documentation attachments

	Criteria Examined in Detail Check (√) if Yes or Footnote Letter for Comments Below					Problems Identified Check (√) if Yes or Footnote Letter for Comments Below					Support Documentation Attachments Check (√) if Yes or Footnote Letter for Comments Below				
	1668C					1668C					1668C				
Holding Times	x										x				
Blank Analysis: Target Cmpds	x										x				
Sys Montr Cmps/Surrogates	x										x				
Matrix Spike/Matrix Spike Duplicate															
Blank Spike	x										x				
Duplicate Analysis ( ) Field ( ) Lab															
Detection Limit/Sensitivity	x										x				
Qualitative Identification: Target Cmpds	x										x				
Qualitative Identification: TICs															
DFTPP & BFB Mass Tuning															
GC Instrument Performance	x										x				
Initial Calibrations	x										x				
Continuing Calibrations	x										x				
Quantitation of Results	x					x					x				
DDT/Endrin Breakdown															
Surrogate Retention Time Shifts															
Internal Standards Performance	x										x				
Resolution Check Standards															
Analytical Sequence	x										x				
Florisil Cartridge & GPC Calibration															
GC Column Agreement															
Condition Upon Receipt	x										x				
Percent Solids															
Others:															

Comments:

BLANK ANALYSIS RESULTS FOR ORGANIC PARAMETERS

Fraction (1)	Matrix (Aq., S)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (pg/L)	Qualification limit	
						5×	10×
PCB	Aq	MB	B7G0116-BLK1	PCB-47	2.94 (EMPC)	14.7	
				PCB-194	0.457 (EMPC)	2.285	
		FB	OWS-FDBL-T170524113005	see Form 1			

1 – V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

2 – MB = Method Blank; TB = Trip Blank; EB = Equipment Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: _____

Sample ID: OWS-BAFA-T170524112919

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:30

Sample Data
Matrix: Water
Sample Size: 0.962 L

Laboratory Data
Lab Sample: 1700918-01 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 17:29 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	7.81	5.20		
PCB-2	ND	5.20	0.984	U
PCB-3	0.883	5.20		J
PCB-4/10	30.8	10.4		
PCB-5/8	25.8	10.4		
PCB-6	5.90	5.20		
PCB-7/9	ND	10.4	3.20	U
PCB-11	6.69	5.20		
PCB-12/13	ND	10.4	4.18	U
PCB-14	ND	5.20	2.19	U
PCB-15	34.5	5.20		
PCB-16/32	54.6	10.4		
PCB-17	25.6	5.20		
PCB-18	58.3	5.20		
PCB-19	16.8	5.20		
PCB-20/21/33	48.5	15.6		
PCB-22	33.6	5.20		
PCB-23	ND	5.20	1.69	U
PCB-24/27	10.9	10.4		
PCB-25	7.08	5.20		
PCB-26	13.5	5.20		
PCB-28	78.7	5.20		
PCB-29	ND	5.20	1.63	U
PCB-30	ND	5.20	0.886	U
PCB-31	60.3	5.20		
PCB-34	ND	5.20	1.62	U
PCB-35	1.94	5.20		J
PCB-36	ND	5.20	1.71	U
PCB-37	36.6	5.20		
PCB-38	ND	5.20	1.77	U
PCB-39	ND	5.20	1.59	U
PCB-40	12.1	5.20		
PCB-41/64/71/72	54.4	20.8		
PCB-42/59	19.6	10.4		
PCB-43/49	35.9	10.4		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-44	51.1	5.20		
PCB-45	11.4	5.20		
PCB-46	ND	5.20	4.75	UM
PCB-47	18.6	5.20		
PCB-48/75	10.7	10.4		
PCB-50	ND	5.20	1.16	U
PCB-51	ND	5.20	3.63	UM
PCB-52/69	41.9	10.4		
PCB-53	11.0	5.20		
PCB-54	ND	5.20	0.926	U
PCB-55	1.17	5.20		J
PCB-56/60	35.5	10.4		
PCB-57	ND	5.20	0.785	U
PCB-58	ND	5.20	0.753	U
PCB-61/70	47.2	10.4		
PCB-62	ND	5.20	0.875	U
PCB-63	2.25	5.20		J
PCB-65	ND	5.20	0.925	U
PCB-66/76	45.8	10.4		
PCB-67	2.40	5.20		J
PCB-68	ND	5.20	0.743	U
PCB-73	ND	5.20	0.929	U
PCB-74	24.3	5.20		
PCB-77	5.46	5.20		
PCB-78	ND	5.20	0.716	U
PCB-79	ND	5.20	0.710	U
PCB-80	ND	5.20	0.640	U
PCB-81	ND	5.20	0.670	U
PCB-82	3.50	5.20		J
PCB-83	ND	5.20	0.899	U
PCB-84/92	7.51	10.4		J
PCB-85/116	3.39	10.4		J
PCB-86	ND	5.20	1.53	U
PCB-87/117/125	5.88	15.6		J
PCB-88/91	3.08	5.20		J

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-BAFA-T170524112919

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:30

Sample Data
Matrix: Water
Sample Size: 0.962 L

Laboratory Data
Lab Sample: 1700918-01 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 17:29 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	ND	5.20	1.37	U
PCB-90/101	14.1	10.4		
PCB-93	ND	5.20	1.48	U
PCB-94	ND	5.20	1.39	U
PCB-95/98/102	14.7	15.6		J
PCB-96	ND	5.20	1.09	U
PCB-97	ND	5.20	4.40	UM
PCB-99	7.35	5.20		
PCB-100	ND	5.20	1.20	U
PCB-103	ND	5.20	1.19	U
PCB-104	ND	5.20	0.963	U
PCB-105	9.06	5.20		
PCB-106/118	13.6	10.4		
PCB-107/109	ND	10.4	0.841	U
PCB-108/112	ND	10.4	1.07	U
PCB-110	15.3	5.20		
PCB-111/115	ND	10.4	0.822	U
PCB-113	ND	5.20	1.02	U
PCB-114	0.559	5.20		J
PCB-119	ND	5.20	0.817	U
PCB-120	ND	5.20	0.757	U
PCB-121	ND	5.20	0.923	U
PCB-122	ND	5.20	0.715	U
PCB-123	ND	5.20	0.777	U
PCB-124	ND	5.20	0.837	U
PCB-126	ND	5.20	0.689	U
PCB-127	ND	5.20	0.719	U
PCB-128/162	1.27	10.4		J
PCB-129	ND	5.20	1.02	U
PCB-130	ND	5.20	1.14	U
PCB-131/133	ND	10.4	1.02	U
PCB-132/161	1.97	10.4		J
PCB-134/143	ND	10.4	1.02	U
PCB-135	ND	5.20	1.34	U
PCB-136	ND	5.20	0.926	U

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-137	ND	5.20	0.920	U
PCB-138/163/164	7.33	15.6		J
PCB-139/149	5.55	10.4		J
PCB-140	ND	5.20	1.26	U
PCB-141	1.00	5.20		J
PCB-142	ND	5.20	1.06	U
PCB-144	ND	5.20	1.13	U
PCB-145	ND	5.20	0.933	U
PCB-146/165	1.18	10.4		J
PCB-147	ND	5.20	1.29	U
PCB-148	ND	5.20	1.23	U
PCB-150	ND	5.20	0.912	U
PCB-151	ND	5.20	1.29	U
PCB-152	ND	5.20	0.898	U
PCB-153	6.12	5.20		
PCB-154	ND	5.20	1.12	U
PCB-155	ND	5.20	0.852	U
PCB-156	0.903	5.20		J
PCB-157	ND	5.20	0.666	U
PCB-158/160	0.826	10.4		J
PCB-159	ND	5.20	0.634	U
PCB-166	ND	5.20	0.692	U
PCB-167	ND	5.20	0.651	U
PCB-168	ND	5.20	0.663	U
PCB-169	ND	5.20	0.705	U
PCB-170	ND	5.20	1.17	UM
PCB-171	ND	5.20	0.586	U
PCB-172	ND	5.20	0.611	U
PCB-173	ND	5.20	0.721	U
PCB-174	ND	5.20	0.863	UM
PCB-175	ND	5.20	0.620	U
PCB-176	ND	5.20	0.457	U
PCB-177	0.806	5.20		J
PCB-178	ND	5.20	0.631	U
PCB-179	ND	5.20	0.496	U

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-BAFA-T170524112919

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:30

Sample Data
Matrix: Water
Sample Size: 0.962 L

Laboratory Data
Lab Sample: 1700918-01 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 17:29 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	2.68	5.20		J
PCB-181	ND	5.20	0.602	U
PCB-182/187	1.89	10.4		J
PCB-183	0.718	5.20		J
PCB-184	ND	5.20	0.494	U
PCB-185	ND	5.20	0.607	U
PCB-186	ND	5.20	0.455	U
PCB-188	ND	5.20	0.454	U
PCB-189	ND	5.20	0.368	U
PCB-190	ND	5.20	0.428	U
PCB-191	ND	5.20	0.443	U
PCB-192	ND	5.20	0.471	U
PCB-193	ND	5.20	0.454	U
PCB-194	ND	5.20	0.751	UM
PCB-195	ND	5.20	0.689	U
PCB-196/203	ND	10.4	1.43	U
PCB-197	ND	5.20	0.859	U
PCB-198	ND	5.20	1.25	U
PCB-199	ND	5.20	1.36	U
PCB-200	ND	5.20	0.923	U
PCB-201	ND	5.20	0.908	U
PCB-202	ND	5.20	0.984	U
PCB-204	ND	5.20	0.965	U
PCB-205	ND	5.20	0.486	U
PCB-206	0.510	5.20		J
PCB-207	ND	5.20	0.337	U
PCB-208	ND	5.20	0.344	U
PCB-209	ND	5.20	0.369	U
Total monoCB	8.70			
Total diCB	104			
Total triCB	446			
Total tetraCB	430			
Total pentaCB	98.0			
Total hexaCB	26.1			
Total heptaCB	6.09			

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	ND		0.751	UM
Total nonaCB	0.510			
DecaCB	ND		0.369	U
Total PCB	1120			

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-BAFA-T170524112919

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:30

Sample Data
Matrix: Water
Sample Size: 0.962 L

Laboratory Data
Lab Sample: 1700918-01 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 17:29 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	70.9	5 -145	
	13C-PCB-3	69.4	5 -145	
	13C-PCB-4	78.9	5 -145	
	13C-PCB-11	77.0	5 -145	
	13C-PCB-9	81.7	5 -145	
	13C-PCB-19	82.4	5 -145	
	13C-PCB-28	83.2	5 -145	
	13C-PCB-32	87.1	5 -145	
	13C-PCB-37	90.5	5 -145	
	13C-PCB-47	83.9	5 -145	
	13C-PCB-52	81.2	5 -145	
	13C-PCB-54	75.4	5 -145	
	13C-PCB-70	88.3	5 -145	
	13C-PCB-77	92.3	10 -145	
	13C-PCB-80	92.1	10 -145	
	13C-PCB-81	93.7	10 -145	
	13C-PCB-95	81.4	10 -145	
	13C-PCB-97	87.4	10 -145	
	13C-PCB-101	84.6	10 -145	
	13C-PCB-104	77.3	10 -145	
	13C-PCB-105	75.8	10 -145	
	13C-PCB-114	76.9	10 -145	
	13C-PCB-118	92.4	10 -145	
	13C-PCB-123	92.0	10 -145	
	13C-PCB-126	80.0	10 -145	
	13C-PCB-127	76.8	10 -145	
	13C-PCB-138	87.9	10 -145	
	13C-PCB-141	84.6	10 -145	
	13C-PCB-153	85.5	10 -145	
	13C-PCB-155	103	10 -145	
	13C-PCB-156	89.2	10 -145	
	13C-PCB-157	92.8	10 -145	
	13C-PCB-159	89.6	10 -145	
	13C-PCB-167	89.8	10 -145	
	13C-PCB-169	91.9	10 -145	

	Labeled Standard	%R	LCL-UCL	Qualifiers
	13C-PCB-170	92.5	10 -145	
	13C-PCB-180	91.6	10 -145	
	13C-PCB-188	86.3	10 -145	
	13C-PCB-189	94.1	10 -145	
	13C-PCB-194	93.5	10 -145	
	13C-PCB-202	107	10 -145	
	13C-PCB-206	108	10 -145	
	13C-PCB-208	105	10 -145	
	13C-PCB-209	122	10 -145	
CRS	13C-PCB-79	99.6	10 -145	
	13C-PCB-178	98.8	10 -145	

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Client ID: OWS-BAFA-T170524112919 Filename: 170731E1 S:5 Acq:31-JUL-17 17:29:02 ConCal: ST170731E1-1

Lab ID: 1700918-01 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.962 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	4.23e+05	2.90	y	16:04	1.36	7.813		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	*	*	n	NotF	1.30	*		1710	2.5	0.984	*	0.983-0.993
Mono	PCB-3	5.09e+04	2.71	y	18:42	1.33	0.8834		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	1.38e+06	1.73	y	20:03	1.32	30.85		*	2.5	*	1.001	0.997-1.007
Di	PCB-7/9	*	*	n	NotF	1.00	*		20000	1.0	3.20	*	0.864-0.871
Di	PCB-6	3.37e+05	1.67	y	22:31	0.99	5.895		*	2.5	*	0.893	0.888-0.897
Di	PCB-5/8	1.54e+06	1.41	y	22:55	1.03	25.76		*	2.5	*	0.909	0.905-0.915
Di	PCB-14	*	*	n	NotF	1.16	*		5900	2.5	2.19	*	0.948-0.958
Di	PCB-11	3.93e+05	1.37	y	25:15	1.03	6.691		*	2.5	*	1.001	0.996-1.006
Di	PCB-12/13	*	*	n	NotF	1.03	*		24900	1.0	4.18	*	1.011-1.021
Di	PCB-15	2.30e+06	1.57	y	25:56	1.17	34.50		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	6.80e+05	1.06	y	24:13	1.52	16.77		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n	NotF	2.51	*		3190	2.5	0.886	*	1.033-1.043
Tri	PCB-18	2.82e+06	1.08	y	25:52	1.11	58.31		*	2.5	*	0.953	0.949-0.959
Tri	PCB-17	1.35e+06	1.03	y	26:03	1.21	25.56		*	2.5	*	0.960	0.955-0.965
Tri	PCB-24/27	7.62e+05	1.06	y	26:36	1.61	10.86		*	2.5	*	0.980	0.976-0.986
Tri	PCB-16/32	3.22e+06	1.06	y	27:07	1.35	54.56		*	2.5	*	0.999	0.995-1.005
Tri	PCB-34	*	*	n	NotF	0.98	*		2050	2.5	1.62	*	0.955-0.965
Tri	PCB-23	*	*	n	NotF	0.93	*		2050	2.5	1.69	*	0.958-0.968
Tri	PCB-29	*	*	n	NotF	0.97	*		2050	2.5	1.63	*	0.967-0.977
Tri	PCB-26	4.07e+05	1.06	y	28:30	0.96	13.47		*	2.5	*	0.980	0.975-0.985
Tri	PCB-25	1.94e+05	1.10	y	28:39	0.87	7.077		*	2.5	*	0.985	0.980-0.990
Tri	PCB-31	1.89e+06	0.98	y	29:00	1.00	60.33		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	2.31e+06	0.96	y	29:06	0.93	78.71		*	2.5	*	1.000	0.995-1.005
Tri	PCB-20/21/33	1.35e+06	1.02	y	29:45	0.89	48.51		*	2.5	*	1.023	1.017-1.027
Tri	PCB-22	9.81e+05	1.03	y	30:10	0.93	33.60		*	2.5	*	1.037	1.032-1.042
Tri	PCB-36	*	*	n	NotF	0.94	*		2050	2.5	1.71	*	0.929-0.939
Tri	PCB-39	*	*	n	NotF	1.01	*		2050	2.5	1.59	*	0.943-0.953
Tri	PCB-38	*	*	n	NotF	0.90	*		2050	2.5	1.77	*	0.966-0.976
Tri	PCB-35	5.65e+04	0.97	y	32:33	0.89	1.945		*	2.5	*	0.987	0.982-0.992
Tri	PCB-37	1.23e+06	0.95	y	32:59	1.03	36.64		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-54	*	*	n	NotF	1.17	*		2530	2.5	0.926	*	0.996-1.006
Tetra	PCB-50	*	*	n	NotF	0.94	*		2530	2.5	1.16	*	1.038-1.048
Tetra	PCB-53	5.25e+05	0.78	y	29:48	1.19	10.99		*	2.5	*	0.946	0.941-0.951
Tetra	PCB-51	1.83e+05	0.56	n	30:08	1.25	3.629	R	*	2.5	*	0.956	0.952-0.962
Tetra	PCB-45	4.92e+05	0.71	y	30:35	1.08	11.38		*	2.5	*	0.970	0.966-0.976
Tetra	PCB-46	1.93e+05	1.05	n	31:03	1.01	4.751	R	*	2.5	*	0.985	0.981-0.991

Integrations by:

Analyst: MJ

Date: 8/4/17

Reviewed by: [illegible]

Date: 8/5/17

Client ID: OWS-BAFA-T170524112919 Filename: 170731E1 S:5 Acq:31-JUL-17 17:29:02 ConCal: ST170731E1-1
Lab ID: 1700918-01 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.962 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	2.33e+06	0.82	y 31:31	1.39	41.88		*	2.5	*	1.000	0.996-1.006
Tetra	PCB-73	*	*	n NotF	1.51	*		2530	2.5	0.929	*	1.000-1.010
Tetra	PCB-43/49	1.73e+06	0.86	y 31:50	1.20	35.89		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	9.86e+05	0.71	y 32:02	1.19	18.60		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-48/75	6.59e+05	0.77	y 32:09	1.39	10.65		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n NotF	1.31	*		2530	2.5	0.925	*	1.007-1.017
Tetra	PCB-62	*	*	n NotF	1.38	*		2530	2.5	0.875	*	1.011-1.021
Tetra	PCB-44	2.18e+06	0.73	y 32:50	0.96	51.06		*	2.5	*	1.026	1.020-1.030
Tetra	PCB-42/59	1.16e+06	0.83	y 33:03	1.32	19.56		*	2.5	*	1.032	1.027-1.037
Tetra	PCB-41/64/71/72	3.35e+06	0.83	y 33:39	1.38	54.38		*	2.5	*	1.051	1.046-1.056
Tetra	PCB-68	*	*	n NotF	1.63	*		2530	2.5	0.743	*	1.054-1.064
Tetra	PCB-40	4.92e+05	0.81	y 34:06	0.91	12.11		*	2.5	*	1.065	1.061-1.071
Tetra	PCB-57	*	*	n NotF	1.23	*		2530	2.5	0.785	*	0.965-0.975
Tetra	PCB-67	1.70e+05	0.67	y 34:47	1.21	2.399		*	2.5	*	0.979	0.974-0.984
Tetra	PCB-58	*	*	n NotF	1.28	*		2530	2.5	0.753	*	0.977-0.987
Tetra	PCB-63	1.72e+05	0.81	y 35:03	1.30	2.254		*	2.5	*	0.986	0.981-0.991
Tetra	PCB-74	1.86e+06	0.81	y 35:20	1.31	24.29		*	2.5	*	0.994	0.990-1.000
Tetra	PCB-61/70	3.41e+06	0.76	y 35:32	1.23	47.18		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	3.45e+06	0.80	y 35:45	1.29	45.76		*	2.5	*	1.006	1.000-1.010
Tetra	PCB-80	*	*	n NotF	1.49	*		2530	2.5	0.640	*	0.996-1.006
Tetra	PCB-55	9.88e+04	0.67	y 36:17	1.36	1.168		*	2.5	*	1.009	1.004-1.014
Tetra	PCB-56/60	2.76e+06	0.77	y 36:46	1.25	35.48		*	2.5	*	1.023	1.018-1.028
Tetra	PCB-79	*	*	n NotF	1.34	*		2530	2.5	0.710	*	1.048-1.058
Tetra	PCB-78	*	*	n NotF	1.29	*		2530	2.5	0.716	*	0.982-0.992
Tetra	PCB-81	*	*	n NotF	1.38	*		2530	2.5	0.670	*	0.995-1.005
Tetra	PCB-77	4.62e+05	0.75	y 39:39	1.42	5.464		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	*	*	n NotF	1.47	*		1960	2.5	0.963	*	0.996-1.006
Penta	PCB-96	*	*	n NotF	1.29	*		1960	2.5	1.09	*	1.034-1.044
Penta	PCB-103	*	*	n NotF	1.19	*		1960	2.5	1.19	*	1.051-1.061
Penta	PCB-100	*	*	n NotF	1.18	*		1960	2.5	1.20	*	1.061-1.071
Penta	PCB-94	*	*	n NotF	1.25	*		1960	2.5	1.39	*	0.981-0.991
Penta	PCB-95/98/102	7.47e+05	1.63	y 35:50	1.40	14.67		*	2.5	*	1.000	0.994-1.004
Penta	PCB-93	*	*	n NotF	1.18	*		1960	2.5	1.48	*	0.998-1.008
Penta	PCB-88/91	1.48e+05	1.39	y 36:14	1.32	3.083		*	2.5	*	1.011	1.006-1.016
Penta	PCB-121	*	*	n NotF	1.89	*		1960	2.5	0.923	*	1.009-1.019
Penta	PCB-84/92	3.68e+05	1.75	y 37:09	1.30	7.511		*	2.5	*	0.990	0.985-0.995
Penta	PCB-89	*	*	n NotF	1.23	*		1960	2.5	1.37	*	0.990-1.000

Analyst: VM

Date: 8/4/17

Client ID: OWS-BAFA-T170524112919 Filename: 170731E1 S:5 Acq:31-JUL-17 17:29:02 ConCal: ST170731E1-1

Lab ID: 1700918-01 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.962 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	7.81e+05	1.53	y	37:32	1.47	14.07		*	2.5	*	1.000	0.995-1.005
Penta	PCB-113	*	*	n	NotF	1.65	*		1960	2.5	1.02	*	1.001-1.011
Penta	PCB-99	4.11e+05	1.58	y	37:51	1.48	7.350		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	*	*	n	NotF	2.25	*		1960	2.5	0.817	*	0.982-0.992
Penta	PCB-108/112	*	*	n	NotF	1.71	*		1960	2.5	1.07	*	0.986-0.996
Penta	PCB-83	*	*	n	NotF	2.05	*		1960	2.5	0.899	*	0.990-1.000
Penta	PCB-97	2.33e+05	1.84	n	38:50	1.56	4.395	R	*	2.5	*	1.000	0.995-1.005
Penta	PCB-86	*	*	n	NotF	1.20	*		1960	2.5	1.53	*	0.999-1.009
Penta	PCB-87/117/125	3.80e+05	1.75	y	39:07	1.91	5.877		*	2.5	*	1.008	1.002-1.012
Penta	PCB-111/115	*	*	n	NotF	2.24	*		1960	2.5	0.822	*	1.006-1.016
Penta	PCB-85/116	1.91e+05	1.48	y	39:22	1.66	3.394		*	2.5	*	1.014	1.010-1.020
Penta	PCB-120	*	*	n	NotF	2.43	*		1960	2.5	0.757	*	1.016-1.026
Penta	PCB-110	1.03e+06	1.59	y	39:46	1.98	15.33		*	2.5	*	1.025	1.019-1.029
Penta	PCB-82	1.52e+05	1.48	y	40:23	0.91	3.504		*	2.5	*	0.976	0.971-0.981
Penta	PCB-124	*	*	n	NotF	1.59	*		1960	2.5	0.837	*	0.988-0.998
Penta	PCB-107/109	*	*	n	NotF	1.58	*		1960	2.5	0.841	*	0.991-1.001
Penta	PCB-123	*	*	n	NotF	1.58	*		1960	2.5	0.777	*	0.996-1.006
Penta	PCB-106/118	1.08e+06	1.58	y	41:35	1.57	13.56		1960	2.5	0.782	1.001	0.996-1.006
Penta	PCB-114	3.11e+04	1.37	y	42:14	1.18	0.5586		*	2.5	*	1.001	0.995-1.005
Penta	PCB-122	*	*	n	NotF	1.07	*		1100	2.5	0.715	*	0.999-1.009
Penta	PCB-105	5.14e+05	1.69	y	43:05	1.23	9.059		*	2.5	*	1.000	0.995-1.005
Penta	PCB-127	*	*	n	NotF	1.03	*		1100	2.5	0.719	*	0.995-1.005
Penta	PCB-126	*	*	n	NotF	1.12	*		1100	2.5	0.689	*	0.995-1.005
Hexa	PCB-155	*	*	n	NotF	1.31	*		1740	2.5	0.852	*	0.966-1.006
Hexa	PCB-150	*	*	n	NotF	1.22	*		1740	2.5	0.912	*	1.030-1.040
Hexa	PCB-152	*	*	n	NotF	1.24	*		1740	2.5	0.898	*	1.042-1.052
Hexa	PCB-145	*	*	n	NotF	1.20	*		1740	2.5	0.933	*	1.054-1.064
Hexa	PCB-136	*	*	n	NotF	1.28	*		4600	1.0	0.926	*	1.063-1.073
Hexa	PCB-148	*	*	n	NotF	0.91	*		1740	2.5	1.23	*	1.066-1.076
Hexa	PCB-154	*	*	n	NotF	1.00	*		1740	2.5	1.12	*	1.079-1.089
Hexa	PCB-151	*	*	n	NotF	0.92	*		4600	1.0	1.29	*	1.097-1.107
Hexa	PCB-135	*	*	n	NotF	0.88	*		4600	1.0	1.34	*	1.101-1.113
Hexa	PCB-144	*	*	n	NotF	0.98	*		1740	2.5	1.13	*	1.105-1.116
Hexa	PCB-147	*	*	n	NotF	0.87	*		1740	2.5	1.29	*	1.108-1.120
Hexa	PCB-139/149	2.36e+05	1.08	y	41:31	0.98	5.548		*	2.5	*	1.120	1.115-1.127
Hexa	PCB-140	*	*	n	NotF	0.89	*		1740	2.5	1.26	*	1.120-1.132
Hexa	PCB-134/143	*	*	n	NotF	0.95	*		1990	2.5	1.02	*	0.970-0.980

Analyst: M

Date: 8/4/17

Client ID: OWS-BAFA-T170524112919 Filename: 170731E1 S:5 Acq:31-JUL-17 17:29:02 ConCal: ST170731E1-1

Lab ID: 1700918-01 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.962 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-131/133	*	*	n NotF¬	0.94	*		1990	2.5	1.02	*	0.977-0.987
Hexa	PCB-142	*	*	n NotF¬	0.91	*		1990	2.5	1.06	*	0.981-0.991
Hexa	PCB-146/165	8.06e+04	1.30	y 42:51	1.18	1.176		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	1.35e+05	1.12	y 43:06	1.17	1.971		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	4.32e+05	1.26	y 43:15	1.21	6.122		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-168	*	*	n NotF¬	1.46	*		1990	2.5	0.663	*	1.000-1.010
Hexa	PCB-141	6.31e+04	1.14	y 43:59	1.30	1.003		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-137	*	*	n NotF¬	1.32	*		1990	2.5	0.920	*	1.004-1.014
Hexa	PCB-130	*	*	n NotF¬	1.07	*		1990	2.5	1.14	*	1.007-1.017
Hexa	PCB-138/163/164	5.50e+05	1.28	y 44:50	1.43	7.327		*	2.5	*	1.001	0.996-1.006
Hexa	PCB-158/160	6.82e+04	1.25	y 45:04	1.57	0.8258		*	2.5	*	1.006	1.001-1.011
Hexa	PCB-129	*	*	n NotF¬	1.05	*		1990	2.5	1.02	*	1.007-1.017
Hexa	PCB-166	*	*	n NotF¬	1.31	*		1990	2.5	0.692	*	0.988-0.998
Hexa	PCB-159	*	*	n NotF¬	1.42	*		1990	2.5	0.634	*	0.995-1.005
Hexa	PCB-128/162	9.42e+04	1.32	y 46:22	1.15	1.269		*	2.5	*	1.006	1.002-1.012
Hexa	PCB-167	*	*	n NotF¬	1.32	*		1990	2.5	0.651	*	0.995-1.005
Hexa	PCB-156	8.06e+04	1.10	y 48:04	1.38	0.9028		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-157	*	*	n NotF¬	1.38	*		1990	2.5	0.666	*	0.995-1.005
Hexa	PCB-169	*	*	n NotF¬	1.27	*		1990	2.5	0.705	*	0.995-1.005
Hepta	PCB-188	*	*	n NotF¬	1.78	*		1820	2.5	0.454	*	0.996-1.006
Hepta	PCB-184	*	*	n NotF¬	1.63	*		1820	2.5	0.494	*	1.006-1.016
Hepta	PCB-179	*	*	n NotF¬	1.63	*		1820	2.5	0.496	*	1.024-1.034
Hepta	PCB-176	*	*	n NotF¬	1.77	*		1820	2.5	0.457	*	1.035-1.045
Hepta	PCB-186	*	*	n NotF¬	1.77	*		1820	2.5	0.455	*	1.049-1.059
Hepta	PCB-178	*	*	n NotF¬	1.28	*		1820	2.5	0.631	*	1.061-1.071
Hepta	PCB-175	*	*	n NotF¬	1.30	*		1820	2.5	0.620	*	1.069-1.079
Hepta	PCB-182/187	1.11e+05	0.97	y 46:10	1.41	1.886		*	2.5	*	1.077	1.073-1.083
Hepta	PCB-183	4.53e+04	1.06	y 46:29	1.51	0.7178		*	2.5	*	1.085	1.080-1.090
Hepta	PCB-185	*	*	n NotF¬	1.78	*		1820	2.5	0.607	*	0.951-0.961
Hepta	PCB-174	4.61e+04	0.89	n 47:30	1.70	0.8627	R	*	2.5	*	0.963	0.958-0.968
Hepta	PCB-181	*	*	n NotF¬	1.80	*		1820	2.5	0.602	*	0.960-0.970
Hepta	PCB-177	4.01e+04	0.92	y 47:46	1.59	0.8057		*	2.5	*	0.968	0.964-0.974
Hepta	PCB-171	*	*	n NotF¬	1.84	*		1820	2.5	0.586	*	0.969-0.979
Hepta	PCB-173	*	*	n NotF¬	1.50	*		1820	2.5	0.721	*	0.978-0.988
Hepta	PCB-172	*	*	n NotF¬	1.77	*		1820	2.5	0.611	*	0.987-0.997
Hepta	PCB-192	*	*	n NotF¬	2.29	*		1820	2.5	0.471	*	0.991-1.001
Hepta	PCB-180	1.53e+05	1.08	y 49:21	1.82	2.684		*	2.5	*	1.000	0.995-1.005

Analyst: MI

Date: 8/4/17

Client ID: OWS-BAFA-T170524112919 Filename: 170731E1 S:5 Acq:31-JUL-17 17:29:02 ConCal: ST170731E1-1

Lab ID: 1700918-01 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.962 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hepta	PCB-193	*	*	n NotF¬	2.38	*		1820	2.5	0.454	*	0.999-1.009
Hepta	PCB-191	*	*	n NotF¬	2.44	*		1820	2.5	0.443	*	1.005-1.015
Hepta	PCB-170	6.26e+04	1.21	n 50:57	1.96	1.166	R	*	2.5	*	1.000	0.995-1.005
Hepta	PCB-190	*	*	n NotF¬	2.72	*		1820	2.5	0.428	*	0.999-1.009
Hepta	PCB-189	*	*	n NotF¬	1.97	*		1820	2.5	0.368	*	0.995-1.005
Octa	PCB-202	*	*	n NotF¬	1.29	*		1870	2.5	0.984	*	0.995-1.005
Octa	PCB-201	*	*	n NotF¬	1.40	*		1870	2.5	0.908	*	1.005-1.015
Octa	PCB-204	*	*	n NotF¬	1.32	*		1870	2.5	0.965	*	1.009-1.019
Octa	PCB-197	*	*	n NotF¬	1.48	*		1870	2.5	0.859	*	1.015-1.025
Octa	PCB-200	*	*	n NotF¬	1.38	*		1870	2.5	0.923	*	1.034-1.044
Octa	PCB-198	*	*	n NotF¬	1.02	*		1870	2.5	1.25	*	1.063-1.073
Octa	PCB-199	*	*	n NotF¬	0.94	*		1870	2.5	1.36	*	1.065-1.075
Octa	PCB-196/203	*	*	n NotF¬	1.07	*		5600	1.0	1.43	*	1.071-1.081
Octa	PCB-195	*	*	n NotF¬	1.01	*		1240	2.5	0.689	*	0.979-0.989
Octa	PCB-194	2.40e+04	0.45	n 54:07	1.11	0.7507	R	*	2.5	*	1.001	0.995-1.005
Octa	PCB-205	*	*	n NotF¬	1.43	*		1240	2.5	0.486	*	1.000-1.010
Nona	PCB-208	*	*	n NotF¬	1.16	*		1260	2.5	0.344	*	0.995-1.005
Nona	PCB-207	*	*	n NotF¬	1.18	*		1260	2.5	0.337	*	1.001-1.011
Nona	PCB-206	2.06e+04	1.28	y 55:38	0.98	0.5098		*	2.5	*	1.000	0.995-1.005
Deca	PCB-209	*	*	n NotF¬	1.56	*		1100	2.5	0.369	*	0.995-1.005

Analyst: PM

Date: 8/4/17

Client ID: OWS-BAFA-T170524112919 Filename: 170731E1 S:5 Acq:31-JUL-17 17:29:02 ConCal: ST170731E1-1
Lab ID: 1700918-01 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.962 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	4.74e+05	2.90	y	16:04	1.33	8.69644	
Total Di-PCB	5.96e+06	1.73	y	20:03	1.05	103.694	
Total Tri-PCB	8.82e+06	1.06	y	24:13	1.54	166.056	
Total Tri-PCB	8.42e+06	1.06	y	28:30	0.94	280.273	Sum:446.329
Total Tetra-PCB	2.63e+07	0.78	y	29:48	1.25	430.493	
Total Penta-PCB	5.29e+06	1.63	y	35:50	1.47	88.3588	
Total Penta-PCB	5.45e+05	1.37	y	42:14	1.13	9.61745	Sum:97.9763
Total Hexa-PCB	2.36e+05	1.08	y	41:31	1.05	5.54810	
Total Hexa-PCB	1.50e+06	1.30	y	42:51	1.23	20.5960	Sum:26.1441
Total Hepta-PCB	3.49e+05	0.97	y	46:10	1.72	6.09422	
Total Octa-PCB	*	*	n	NotFnd	1.22	*	
Total Octa-PCB	*	*	n	NotFnd	1.18	*	Sum:0.00000
Total Nona-PCB	2.06e+04	1.28	y	55:38	1.12	0.509765	
Total Deca-PCB	*	*	n	NotFnd	1.56	*	

Total PCB Conc:1135.49115300

Integrations
by
Analyst: M
Date: 8/4/17

Client ID: OWS-BAFA-T170524112919 Filename: 170731E1 S:5 Acq:31-JUL-17 17:29:02 ConCal: ST170731E1-1
Lab ID: 1700918-01 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:0.9623 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-1	8.27e+07	3.09	y	0.70	16:03	0.619	0.617-0.623	1470	70.9
13C-PCB-3	9.04e+07	3.06	y	0.79	18:41	0.721	0.717-0.725	1440	69.4
13C-PCB-4	7.06e+07	1.58	y	0.54	20:01	0.772	0.769-0.777	1640	78.9
13C-PCB-9	1.21e+08	1.58	y	0.89	21:50	0.842	0.838-0.846	1700	81.7
13C-PCB-11	1.19e+08	1.55	y	0.93	25:13	0.973	0.968-0.978	1600	77.0
13C-PCB-19	5.56e+07	1.03	y	0.41	24:12	0.933	0.928-0.938	1710	82.4
13C-PCB-28	6.52e+07	1.03	y	1.04	29:06	1.004	0.999-1.009	1730	83.2
13C-PCB-32	9.07e+07	1.03	y	0.63	27:08	1.046	1.041-1.051	1810	87.1
13C-PCB-37	6.78e+07	1.07	y	1.00	32:58	1.137	1.132-1.144	1880	90.5
13C-PCB-47	9.28e+07	0.80	y	0.80	32:01	0.871	0.867-0.875	1740	83.9
13C-PCB-52	8.35e+07	0.82	y	0.74	31:31	0.857	0.853-0.861	1690	81.2
13C-PCB-54	9.79e+07	0.80	y	0.94	27:58	0.760	0.757-0.765	1570	75.4
13C-PCB-70	1.22e+08	0.81	y	0.99	35:32	0.966	0.961-0.971	1840	88.3
13C-PCB-77	1.24e+08	0.81	y	0.97	39:39	1.078	1.073-1.083	1920	92.3
13C-PCB-80	1.29e+08	0.83	y	1.01	35:57	0.978	0.973-0.983	1910	92.1
13C-PCB-81	1.31e+08	0.77	y	1.01	39:03	1.062	1.057-1.067	1950	93.7
13C-PCB-95	7.55e+07	1.57	y	0.80	35:49	0.913	0.908-0.918	1690	81.4
13C-PCB-97	7.04e+07	1.57	y	0.70	38:49	0.989	0.984-0.994	1820	87.4
13C-PCB-101	7.86e+07	1.61	y	0.81	37:31	0.956	0.951-0.961	1760	84.6
13C-PCB-104	8.97e+07	1.57	y	1.01	32:40	0.832	0.828-0.836	1610	77.3
13C-PCB-105	9.61e+07	1.56	y	1.18	43:04	0.929	0.924-0.934	1570	75.8
13C-PCB-114	9.81e+07	1.56	y	1.18	42:12	0.911	0.905-0.915	1600	76.9
13C-PCB-118	1.06e+08	1.56	y	0.99	41:34	1.059	1.054-1.064	1920	92.4
13C-PCB-123	9.94e+07	1.56	y	0.94	41:22	1.054	1.049-1.059	1910	92.0
13C-PCB-126	1.00e+08	1.55	y	1.17	45:18	0.977	0.972-0.982	1660	80.0
13C-PCB-127	1.04e+08	1.57	y	1.26	43:25	0.937	0.931-0.941	1600	76.8
13C-PCB-138	1.09e+08	1.27	y	1.15	44:48	0.967	0.961-0.971	1830	87.9
13C-PCB-141	1.01e+08	1.30	y	1.11	43:58	0.948	0.943-0.953	1760	84.6
13C-PCB-153	1.21e+08	1.28	y	1.32	43:14	0.933	0.927-0.937	1780	85.5
13C-PCB-155	9.01e+07	1.25	y	0.76	37:03	0.944	0.939-0.949	2130	103
13C-PCB-156	1.35e+08	1.26	y	1.40	48:03	1.037	1.032-1.042	1850	89.2
13C-PCB-157	1.39e+08	1.32	y	1.40	48:19	1.042	1.038-1.048	1930	92.8
13C-PCB-159	1.34e+08	1.28	y	1.39	46:06	0.994	0.989-0.999	1860	89.6
13C-PCB-167	1.36e+08	1.27	y	1.41	46:46	1.009	1.004-1.014	1870	89.8
13C-PCB-169	1.36e+08	1.27	y	1.38	50:32	1.090	1.085-1.095	1910	91.9
13C-PCB-170	5.69e+07	0.47	y	0.83	50:56	1.103	1.093-1.103	1920	92.5
13C-PCB-180	6.52e+07	0.47	y	0.96	49:20	1.068	1.059-1.069	1900	91.6
13C-PCB-188	8.66e+07	0.46	y	1.36	42:52	0.928	0.919-0.929	1790	86.3
13C-PCB-189	8.07e+07	0.46	y	1.16	52:32	1.138	1.125-1.137	1960	94.1
13C-PCB-194	5.99e+07	0.87	y	0.74	54:05	0.995	0.990-1.000	1940	93.5
13C-PCB-202	7.45e+07	0.91	y	0.95	48:16	1.045	1.036-1.046	2210	107
13C-PCB-206	8.56e+07	0.77	y	0.91	55:38	1.024	1.019-1.029	2250	108
13C-PCB-208	1.09e+08	0.78	y	1.19	53:21	0.981	0.977-0.987	2190	105
13C-PCB-209	8.49e+07	1.21	y	0.80	56:57	1.048	1.044-1.054	2540	122

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-79	1.41e+08	0.81	y	1.02	37:50	1.029	1.024-1.033	2070	99.6
13C-PCB-178	6.60e+07	0.45	y	0.90	45:39	0.985	0.980-0.989	2050	98.8

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-79	1.41e+08	0.81	y	1.01	37:50	0.969	0.963-0.973	2210	106
13C-PCB-178	6.60e+07	0.45	y	0.94	45:39	0.925	0.920-0.930	2240	108

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.66e+08	1.54	y	1.00	25:56	2080
13C-PCB-31	7.50e+07	1.04	y	1.00	28:59	2080
13C-PCB-60	1.38e+08	0.79	y	1.00	36:46	2080
13C-PCB-111	1.15e+08	1.60	y	1.00	39:15	2080
13C-PCB-128	1.08e+08	1.27	y	1.00	46:21	2080
13C-PCB-182	7.39e+07	0.46	y	1.00	46:11	2080
13C-PCB-205	8.71e+07	0.88	y	1.00	54:21	2080

Analyst: MJ

Date: 8/4/17

Sample ID: OWS-FDBL-T170524113005

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:20

Sample Data
Matrix: Water
Sample Size: 0.934 L

Laboratory Data
Lab Sample: 1700918-02
QC Batch: B7G0116
Date Analyzed : 31-Jul-17 18:34 Column: ZB-1
Date Received: 21-Jul-2017 9:12
Date Extracted: 25-Jul-2017 8:40

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	4.29	5.35		J
PCB-2	ND	5.35	1.02	U
PCB-3	ND	5.35	1.00	U
PCB-4/10	13.2	10.7		
PCB-5/8	15.5	10.7		
PCB-6	ND	6.59	6.59	U
PCB-7/9	ND	10.7	1.70	U
PCB-11	13.9	5.35		
PCB-12/13	ND	10.7	2.46	U
PCB-14	ND	5.35	1.96	U
PCB-15	8.05	5.35		
PCB-16/32	32.8	10.7		
PCB-17	16.2	5.35		
PCB-18	29.6	5.35		
PCB-19	9.33	5.35		
PCB-20/21/33	17.2	16.1		
PCB-22	11.8	5.35		
PCB-23	ND	5.35	1.77	U
PCB-24/27	6.41	10.7		J
PCB-25	ND	5.35	1.89	U
PCB-26	ND	5.35	3.72	UM
PCB-28	22.1	5.35		
PCB-29	ND	5.35	1.70	U
PCB-30	ND	5.35	1.29	U
PCB-31	16.7	5.35		
PCB-34	ND	5.35	1.69	U
PCB-35	ND	5.35	1.83	U
PCB-36	ND	5.35	1.74	U
PCB-37	4.88	5.35		J
PCB-38	ND	5.35	1.80	U
PCB-39	ND	5.35	1.62	U
PCB-40	ND	5.35	2.80	UM
PCB-41/64/71/72	12.9	21.4		J
PCB-42/59	6.30	10.7		J
PCB-43/49	12.3	10.7		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-44	17.1	5.35		
PCB-45	5.72	5.35		
PCB-46	3.01	5.35		J
PCB-47	6.08	5.35		
PCB-48/75	ND	10.7	3.39	UM
PCB-50	ND	5.35	1.32	U
PCB-51	2.73	5.35		J
PCB-52/69	13.7	10.7		
PCB-53	5.00	5.35		J
PCB-54	ND	5.35	1.05	U
PCB-55	ND	5.35	0.819	U
PCB-56/60	4.72	10.7		J
PCB-57	ND	5.35	0.885	U
PCB-58	ND	5.35	0.848	U
PCB-61/70	7.02	10.7		J
PCB-62	ND	5.35	0.969	U
PCB-63	ND	5.35	0.832	U
PCB-65	ND	5.35	1.03	U
PCB-66/76	5.08	10.7		J
PCB-67	ND	5.35	0.897	U
PCB-68	ND	5.35	0.824	U
PCB-73	ND	5.35	0.954	U
PCB-74	ND	5.35	2.86	UM
PCB-77	ND	5.35	0.773	U
PCB-78	ND	5.35	0.825	U
PCB-79	ND	5.35	0.834	U
PCB-80	ND	5.35	0.752	U
PCB-81	ND	5.35	0.772	U
PCB-82	ND	5.35	1.83	U
PCB-83	ND	5.35	1.14	U
PCB-84/92	2.49	10.7		J
PCB-85/116	ND	10.7	1.41	U
PCB-86	ND	5.35	1.95	U
PCB-87/117/125	1.11	16.1		J
PCB-88/91	1.47	5.35		J

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-FDBL-T170524113005

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:20

Sample Data
Matrix: Water
Sample Size: 0.934 L

Laboratory Data
Lab Sample: 1700918-02 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 18:34 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	ND	5.35	1.68	U
PCB-90/101	2.87	10.7		J
PCB-93	ND	5.35	1.80	U
PCB-94	ND	5.35	1.69	U
PCB-95/98/102	5.18	16.1		J
PCB-96	ND	5.35	1.32	U
PCB-97	1.14	5.35		J
PCB-99	1.37	5.35		J
PCB-100	ND	5.35	1.44	U
PCB-103	ND	5.35	1.43	U
PCB-104	ND	5.35	1.16	U
PCB-105	ND	5.35	1.50	U
PCB-106/118	1.75	10.7		J
PCB-107/109	ND	10.7	1.05	U
PCB-108/112	ND	10.7	1.36	U
PCB-110	2.96	5.35		J
PCB-111/115	ND	10.7	1.04	U
PCB-113	ND	5.35	1.25	U
PCB-114	ND	5.35	1.54	U
PCB-119	ND	5.35	1.04	U
PCB-120	ND	5.35	0.961	U
PCB-121	ND	5.35	1.12	U
PCB-122	ND	5.35	1.69	U
PCB-123	ND	5.35	1.05	U
PCB-124	ND	5.35	1.04	U
PCB-126	ND	5.35	1.56	U
PCB-127	ND	5.35	1.66	U
PCB-128/162	ND	10.7	0.800	U
PCB-129	ND	5.35	1.05	U
PCB-130	ND	5.35	1.14	U
PCB-131/133	ND	10.7	1.09	U
PCB-132/161	ND	10.7	0.875	U
PCB-134/143	ND	10.7	1.08	U
PCB-135	ND	5.35	1.53	U
PCB-136	ND	5.35	1.05	U

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-137	ND	5.35	0.921	U
PCB-138/163/164	ND	16.1	0.853	UM
PCB-139/149	ND	10.7	1.73	U
PCB-140	ND	5.35	1.51	U
PCB-141	ND	5.35	0.939	U
PCB-142	ND	5.35	1.12	U
PCB-144	ND	5.35	1.37	U
PCB-145	ND	5.35	1.12	U
PCB-146/165	ND	10.7	0.874	U
PCB-147	ND	5.35	1.56	U
PCB-148	ND	5.35	1.49	U
PCB-150	ND	5.35	1.10	U
PCB-151	ND	5.35	1.47	U
PCB-152	ND	5.35	1.08	U
PCB-153	ND	5.35	0.850	U
PCB-154	ND	5.35	1.35	U
PCB-155	ND	5.35	1.03	U
PCB-156	ND	5.35	0.691	U
PCB-157	ND	5.35	0.697	U
PCB-158/160	ND	10.7	0.704	U
PCB-159	ND	5.35	0.647	U
PCB-166	ND	5.35	0.705	U
PCB-167	ND	5.35	0.708	U
PCB-168	ND	5.35	0.705	U
PCB-169	ND	5.35	0.716	U
PCB-170	ND	5.35	0.592	U
PCB-171	ND	5.35	0.602	U
PCB-172	ND	5.35	0.628	U
PCB-173	ND	5.35	0.742	U
PCB-174	ND	5.35	0.652	U
PCB-175	ND	5.35	0.608	U
PCB-176	ND	5.35	0.448	U
PCB-177	ND	5.35	0.700	U
PCB-178	ND	5.35	0.619	U
PCB-179	ND	5.35	0.486	U

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-FDBL-T170524113005

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:20

Sample Data
Matrix: Water
Sample Size: 0.934 L

Laboratory Data
Lab Sample: 1700918-02 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 18:34 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	ND	5.35	0.610	U
PCB-181	ND	5.35	0.619	U
PCB-182/187	ND	10.7	0.563	U
PCB-183	ND	5.35	0.523	U
PCB-184	ND	5.35	0.485	U
PCB-185	ND	5.35	0.624	U
PCB-186	ND	5.35	0.446	U
PCB-188	ND	5.35	0.445	U
PCB-189	ND	5.35	0.363	U
PCB-190	ND	5.35	0.425	U
PCB-191	ND	5.35	0.455	U
PCB-192	ND	5.35	0.485	U
PCB-193	ND	5.35	0.467	U
PCB-194	ND	5.35	0.839	U
PCB-195	ND	5.35	0.922	U
PCB-196/203	ND	10.7	1.36	U
PCB-197	ND	5.35	0.979	U
PCB-198	ND	5.35	1.43	U
PCB-199	ND	5.35	1.55	U
PCB-200	ND	5.35	1.05	U
PCB-201	ND	5.35	1.03	U
PCB-202	ND	5.35	1.12	U
PCB-204	ND	5.35	1.10	U
PCB-205	ND	5.35	0.650	U
PCB-206	ND	5.35	0.745	U
PCB-207	ND	5.35	0.471	U
PCB-208	ND	5.35	0.480	U
PCB-209	ND	5.35	0.453	U
Total monoCB	4.29			
Total diCB	50.7			
Total triCB	167			
Total tetraCB	102			
Total pentaCB	20.3			
Total hexaCB	ND		0.853	UM
Total heptaCB	ND		0.742	U

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	ND		1.55	U
Total nonaCB	ND		0.745	U
DecaCB	ND		0.453	U
Total PCB	344			

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-FDBL-T170524113005

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:20

Sample Data
Matrix: Water
Sample Size: 0.934 L

Laboratory Data
Lab Sample: 1700918-02 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 18:34 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	77.9	5 -145	
	13C-PCB-3	74.8	5 -145	
	13C-PCB-4	85.5	5 -145	
	13C-PCB-11	77.7	5 -145	
	13C-PCB-9	74.1	5 -145	
	13C-PCB-19	77.8	5 -145	
	13C-PCB-28	91.3	5 -145	
	13C-PCB-32	79.2	5 -145	
	13C-PCB-37	99.5	5 -145	
	13C-PCB-47	84.9	5 -145	
	13C-PCB-52	82.1	5 -145	
	13C-PCB-54	73.7	5 -145	
	13C-PCB-70	84.4	5 -145	
	13C-PCB-77	91.0	10 -145	
	13C-PCB-80	86.8	10 -145	
	13C-PCB-81	88.5	10 -145	
	13C-PCB-95	81.5	10 -145	
	13C-PCB-97	87.6	10 -145	
	13C-PCB-101	85.0	10 -145	
	13C-PCB-104	78.1	10 -145	
	13C-PCB-105	70.6	10 -145	
	13C-PCB-114	73.4	10 -145	
	13C-PCB-118	90.8	10 -145	
	13C-PCB-123	91.8	10 -145	
	13C-PCB-126	76.5	10 -145	
	13C-PCB-127	73.0	10 -145	
	13C-PCB-138	88.4	10 -145	
	13C-PCB-141	86.1	10 -145	
	13C-PCB-153	86.9	10 -145	
	13C-PCB-155	102	10 -145	
	13C-PCB-156	88.8	10 -145	
	13C-PCB-157	92.5	10 -145	
	13C-PCB-159	90.9	10 -145	
	13C-PCB-167	88.9	10 -145	
	13C-PCB-169	93.3	10 -145	

	Labeled Standard	%R	LCL-UCL	Qualifiers
	13C-PCB-170	95.6	10 -145	
	13C-PCB-180	94.0	10 -145	
	13C-PCB-188	91.0	10 -145	
	13C-PCB-189	99.2	10 -145	
	13C-PCB-194	83.8	10 -145	
	13C-PCB-202	103	10 -145	
	13C-PCB-206	104	10 -145	
	13C-PCB-208	104	10 -145	
	13C-PCB-209	116	10 -145	
CRS	13C-PCB-79	97.0	10 -145	
	13C-PCB-178	98.1	10 -145	

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Client ID: OWS-FDBL-T170524113005 Filename: 170731E1 S:6 Acq:31-JUL-17 18:34:11 ConCal: ST170731E1-1

Lab ID: 1700918-02 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.934 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	1.94e+05	3.29	y	16:03	1.36	4.291		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	*	*	n	NotFn	1.30	*		3600	1.0	1.02	*	0.983-0.993
Mono	PCB-3	*	*	n	NotFn	1.33	*		3600	1.0	1.00	*	0.996-1.006
Di	PCB-4/10	4.89e+05	1.45	y	20:02	1.32	13.24		*	2.5	*	1.000	0.997-1.007
Di	PCB-7/9	*	*	n	NotFn	1.00	*		7400	1.0	1.70	*	0.864-0.871
Di	PCB-6	*	*	n	NotFn	0.99	*		28300	1.0	6.59	*	0.888-0.897
Di	PCB-5/8	6.41e+05	1.55	y	22:55	1.03	15.54		*	2.5	*	0.909	0.905-0.915
Di	PCB-14	*	*	n	NotFn	1.16	*		4120	2.5	1.96	*	0.948-0.958
Di	PCB-11	6.25e+05	1.45	y	25:14	1.03	13.86		*	2.5	*	1.000	0.996-1.006
Di	PCB-12/13	*	*	n	NotFn	1.03	*		11400	1.0	2.46	*	1.011-1.021
Di	PCB-15	4.12e+05	1.38	y	25:56	1.17	8.047		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	2.71e+05	1.17	y	24:13	1.52	9.328		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n	NotFn	2.51	*		3190	2.5	1.29	*	1.033-1.043
Tri	PCB-18	9.88e+05	0.99	y	25:52	1.11	29.58		*	2.5	*	0.953	0.949-0.959
Tri	PCB-17	5.90e+05	1.04	y	26:02	1.21	16.18		*	2.5	*	0.960	0.955-0.965
Tri	PCB-24/27	3.11e+05	0.96	y	26:36	1.61	6.413		*	2.5	*	0.980	0.976-0.986
Tri	PCB-16/32	1.34e+06	1.00	y	27:07	1.35	32.77		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	*	*	n	NotFn	0.98	*		1580	2.5	1.69	*	0.955-0.965
Tri	PCB-23	*	*	n	NotFn	0.93	*		1580	2.5	1.77	*	0.958-0.968
Tri	PCB-29	*	*	n	NotFn	0.97	*		1580	2.5	1.70	*	0.967-0.977
Tri	PCB-26	8.37e+04	1.36	n	28:28	0.96	3.721	R	*	2.5	*	0.979	0.975-0.985
Tri	PCB-25	*	*	n	NotFn	0.87	*		1580	2.5	1.89	*	0.980-0.990
Tri	PCB-31	3.90e+05	0.99	y	29:00	1.00	16.73		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	4.82e+05	0.89	y	29:07	0.93	22.12		*	2.5	*	1.001	0.995-1.005
Tri	PCB-20/21/33	3.55e+05	0.98	y	29:45	0.89	17.16		*	2.5	*	1.023	1.017-1.027
Tri	PCB-22	2.55e+05	0.94	y	30:10	0.93	11.76		*	2.5	*	1.037	1.032-1.042
Tri	PCB-36	*	*	n	NotFn	0.94	*		1580	2.5	1.74	*	0.929-0.939
Tri	PCB-39	*	*	n	NotFn	1.01	*		1580	2.5	1.62	*	0.943-0.953
Tri	PCB-38	*	*	n	NotFn	0.90	*		1580	2.5	1.80	*	0.966-0.976
Tri	PCB-35	*	*	n	NotFn	0.89	*		1580	2.5	1.83	*	0.982-0.992
Tri	PCB-37	1.23e+05	1.12	y	33:00	1.03	4.880		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-54	*	*	n	NotFn	1.17	*		2060	2.5	1.05	*	0.996-1.006
Tetra	PCB-50	*	*	n	NotFn	0.94	*		2060	2.5	1.32	*	1.038-1.048
Tetra	PCB-53	1.76e+05	0.85	y	29:47	1.19	5.005		*	2.5	*	0.945	0.941-0.951
Tetra	PCB-51	1.01e+05	0.69	y	30:08	1.25	2.726		*	2.5	*	0.956	0.952-0.962
Tetra	PCB-45	1.82e+05	0.77	y	30:34	1.08	5.722		*	2.5	*	0.970	0.966-0.976
Tetra	PCB-46	8.95e+04	0.82	y	31:05	1.01	3.005		*	2.5	*	0.986	0.981-0.991

Integrations by:

Analyst: MJ

Date: 8/4/17

Reviewed by: [signature] Date: 8/7/17

Client ID: OWS-FDBL-T170524113005 Filename: 170731E1 S:6 Acq:31-JUL-17 18:34:11 ConCal: ST170731E1-1

Lab ID: 1700918-02 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.934 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	5.59e+05	0.67	y	31:32	1.39	13.65		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-73	*	*	n	NotF	1.51	*		2060	2.5	0.954	*	1.000-1.010
Tetra	PCB-43/49	4.35e+05	0.68	y	31:49	1.20	12.29		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	2.37e+05	0.88	y	32:02	1.19	6.077		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-48/75	1.54e+05	0.58	n	32:08	1.39	3.395	R	*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n	NotF	1.31	*		2060	2.5	1.03	*	1.007-1.017
Tetra	PCB-62	*	*	n	NotF	1.38	*		2060	2.5	0.969	*	1.011-1.021
Tetra	PCB-44	5.39e+05	0.78	y	32:49	0.96	17.14		*	2.5	*	1.025	1.020-1.030
Tetra	PCB-42/59	2.74e+05	0.67	y	33:03	1.32	6.302		*	2.5	*	1.032	1.027-1.037
Tetra	PCB-41/64/71/72	5.83e+05	0.82	y	33:38	1.38	12.90		*	2.5	*	1.050	1.046-1.056
Tetra	PCB-68	*	*	n	NotF	1.63	*		2060	2.5	0.824	*	1.054-1.064
Tetra	PCB-40	8.35e+04	0.98	n	34:05	0.91	2.797	R	*	2.5	*	1.065	1.061-1.071
Tetra	PCB-57	*	*	n	NotF	1.23	*		2060	2.5	0.885	*	0.965-0.975
Tetra	PCB-67	*	*	n	NotF	1.21	*		2060	2.5	0.897	*	0.974-0.984
Tetra	PCB-58	*	*	n	NotF	1.28	*		2060	2.5	0.848	*	0.977-0.987
Tetra	PCB-63	*	*	n	NotF	1.30	*		2060	2.5	0.832	*	0.981-0.991
Tetra	PCB-74	1.52e+05	1.02	n	35:20	1.31	2.864	R	*	2.5	*	0.994	0.990-1.000
Tetra	PCB-61/70	3.52e+05	0.77	y	35:33	1.23	7.017		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-76/66	2.66e+05	0.80	y	35:45	1.29	5.079		*	2.5	*	1.006	1.000-1.010
Tetra	PCB-80	*	*	n	NotF	1.49	*		2060	2.5	0.752	*	0.996-1.006
Tetra	PCB-55	*	*	n	NotF	1.36	*		2060	2.5	0.819	*	1.004-1.014
Tetra	PCB-56/60	2.51e+05	0.72	y	36:47	1.25	4.716		*	2.5	*	1.023	1.018-1.028
Tetra	PCB-79	*	*	n	NotF	1.34	*		2060	2.5	0.834	*	1.048-1.058
Tetra	PCB-78	*	*	n	NotF	1.29	*		2060	2.5	0.825	*	0.982-0.992
Tetra	PCB-81	*	*	n	NotF	1.38	*		2060	2.5	0.772	*	0.995-1.005
Tetra	PCB-77	*	*	n	NotF	1.42	*		2060	2.5	0.773	*	0.995-1.005
Penta	PCB-104	*	*	n	NotF	1.47	*		1880	2.5	1.16	*	0.996-1.006
Penta	PCB-96	*	*	n	NotF	1.29	*		1880	2.5	1.32	*	1.034-1.044
Penta	PCB-103	*	*	n	NotF	1.19	*		1880	2.5	1.43	*	1.051-1.061
Penta	PCB-100	*	*	n	NotF	1.18	*		1880	2.5	1.44	*	1.061-1.071
Penta	PCB-94	*	*	n	NotF	1.25	*		1880	2.5	1.69	*	0.981-0.991
Penta	PCB-95/98/102	1.98e+05	1.63	y	35:50	1.40	5.177		*	2.5	*	1.000	0.994-1.004
Penta	PCB-93	*	*	n	NotF	1.18	*		1880	2.5	1.80	*	0.998-1.008
Penta	PCB-88/91	5.29e+04	1.65	y	36:14	1.32	1.467		*	2.5	*	1.011	1.006-1.016
Penta	PCB-121	*	*	n	NotF	1.89	*		1880	2.5	1.12	*	1.009-1.019
Penta	PCB-84/92	9.21e+04	1.50	y	37:08	1.30	2.487		*	2.5	*	0.990	0.985-0.995
Penta	PCB-89	*	*	n	NotF	1.23	*		1880	2.5	1.68	*	0.990-1.000

Analyst: MI

Date: 8/4/17

Client ID: OWS-FDBL-T170524113005 Filename: 170731E1 S:6 Acq:31-JUL-17 18:34:11 ConCal: ST170731E1-1

Lab ID: 1700918-02 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.934 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	1.20e+05	1.78	y	37:32	1.47	2.866		*	2.5	*	1.000	0.995-1.005
Penta	PCB-113	*	*	n	NotFn	1.65	*		1880	2.5	1.25	*	1.001-1.011
Penta	PCB-99	5.80e+04	1.34	y	37:52	1.48	1.372		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	*	*	n	NotFn	2.25	*		1880	2.5	1.04	*	0.982-0.992
Penta	PCB-108/112	*	*	n	NotFn	1.71	*		1880	2.5	1.36	*	0.986-0.996
Penta	PCB-83	*	*	n	NotFn	2.05	*		1880	2.5	1.14	*	0.990-1.000
Penta	PCB-97	4.57e+04	1.41	y	38:50	1.56	1.145		*	2.5	*	1.001	0.995-1.005
Penta	PCB-86	*	*	n	NotFn	1.20	*		1880	2.5	1.95	*	0.999-1.009
Penta	PCB-87/117/125	5.38e+04	1.43	y	39:07	1.91	1.105		*	2.5	*	1.008	1.002-1.012
Penta	PCB-111/115	*	*	n	NotFn	2.24	*		1880	2.5	1.04	*	1.006-1.016
Penta	PCB-85/116	*	*	n	NotFn	1.66	*		1880	2.5	1.41	*	1.010-1.020
Penta	PCB-120	*	*	n	NotFn	2.43	*		1880	2.5	0.961	*	1.016-1.026
Penta	PCB-110	1.50e+05	1.41	y	39:46	1.98	2.962		*	2.5	*	1.025	1.019-1.029
Penta	PCB-82	*	*	n	NotFn	0.91	*		1880	2.5	1.83	*	0.971-0.981
Penta	PCB-124	*	*	n	NotFn	1.59	*		1880	2.5	1.04	*	0.988-0.998
Penta	PCB-107/109	*	*	n	NotFn	1.58	*		1880	2.5	1.05	*	0.991-1.001
Penta	PCB-123	*	*	n	NotFn	1.58	*		1880	2.5	1.05	*	0.996-1.006
Penta	PCB-106/118	1.03e+05	1.55	y	41:34	1.57	1.752		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	*	*	n	NotFn	1.18	*		1870	2.5	1.54	*	0.995-1.005
Penta	PCB-122	*	*	n	NotFn	1.07	*		1870	2.5	1.69	*	0.999-1.009
Penta	PCB-105	*	*	n	NotFn	1.23	*		1870	2.5	1.50	*	0.995-1.005
Penta	PCB-127	*	*	n	NotFn	1.03	*		1870	2.5	1.66	*	0.995-1.005
Penta	PCB-126	*	*	n	NotFn	1.12	*		1870	2.5	1.56	*	0.995-1.005
Hexa	PCB-155	*	*	n	NotFn	1.31	*		1610	2.5	1.03	*	0.966-1.006
Hexa	PCB-150	*	*	n	NotFn	1.22	*		1610	2.5	1.10	*	1.030-1.040
Hexa	PCB-152	*	*	n	NotFn	1.24	*		1610	2.5	1.08	*	1.042-1.052
Hexa	PCB-145	*	*	n	NotFn	1.20	*		1610	2.5	1.12	*	1.054-1.064
Hexa	PCB-136	*	*	n	NotFn	1.28	*		1610	2.5	1.05	*	1.063-1.073
Hexa	PCB-148	*	*	n	NotFn	0.91	*		1610	2.5	1.49	*	1.066-1.076
Hexa	PCB-154	*	*	n	NotFn	1.00	*		1610	2.5	1.35	*	1.079-1.089
Hexa	PCB-151	*	*	n	NotFn	0.92	*		1610	2.5	1.47	*	1.097-1.107
Hexa	PCB-135	*	*	n	NotFn	0.88	*		1610	2.5	1.53	*	1.101-1.113
Hexa	PCB-144	*	*	n	NotFn	0.98	*		1610	2.5	1.37	*	1.105-1.116
Hexa	PCB-147	*	*	n	NotFn	0.87	*		1610	2.5	1.56	*	1.108-1.120
Hexa	PCB-139/149	*	*	n	NotFn	0.98	*		5090	1.0	1.73	*	1.115-1.127
Hexa	PCB-140	*	*	n	NotFn	0.89	*		1610	2.5	1.51	*	1.120-1.132
Hexa	PCB-134/143	*	*	n	NotFn	0.95	*		1610	2.5	1.08	*	0.970-0.980

Analyst: MI

Date: 8/4/17

Client ID: OWS-FDBL-T170524113005 Filename: 170731E1 S:6 Acq:31-JUL-17 18:34:11 ConCal: ST170731E1-1

Lab ID: 1700918-02 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.934 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-131/133	*	*	n	NotFn	0.94	*		1610	2.5	1.09	*	0.977-0.987
Hexa	PCB-142	*	*	n	NotFn	0.91	*		1610	2.5	1.12	*	0.981-0.991
Hexa	PCB-146/165	*	*	n	NotFn	1.18	*		1610	2.5	0.874	*	0.986-0.996
Hexa	PCB-132/161	*	*	n	NotFn	1.17	*		1610	2.5	0.875	*	0.992-1.002
Hexa	PCB-153	*	*	n	NotFn	1.21	*		1610	2.5	0.850	*	0.995-1.005
Hexa	PCB-168	*	*	n	NotFn	1.46	*		1610	2.5	0.705	*	1.000-1.010
Hexa	PCB-141	*	*	n	NotFn	1.30	*		1610	2.5	0.939	*	0.996-1.006
Hexa	PCB-137	*	*	n	NotFn	1.32	*		1610	2.5	0.921	*	1.004-1.014
Hexa	PCB-130	*	*	n	NotFn	1.07	*		1610	2.5	1.14	*	1.007-1.017
Hexa	PCB-138/163/164	4.81e+04	0.86	n	44:49	1.43	0.8526	R	*	2.5	*	1.000	0.996-1.006
Hexa	PCB-158/160	*	*	n	NotFn	1.57	*		1610	2.5	0.704	*	1.001-1.011
Hexa	PCB-129	*	*	n	NotFn	1.05	*		1610	2.5	1.05	*	1.007-1.017
Hexa	PCB-166	*	*	n	NotFn	1.31	*		1610	2.5	0.705	*	0.988-0.998
Hexa	PCB-159	*	*	n	NotFn	1.42	*		1610	2.5	0.647	*	0.995-1.005
Hexa	PCB-128/162	*	*	n	NotFn	1.15	*		1610	2.5	0.800	*	1.002-1.012
Hexa	PCB-167	*	*	n	NotFn	1.32	*		1610	2.5	0.708	*	0.995-1.005
Hexa	PCB-156	*	*	n	NotFn	1.38	*		1610	2.5	0.691	*	0.995-1.005
Hexa	PCB-157	*	*	n	NotFn	1.38	*		1610	2.5	0.697	*	0.995-1.005
Hexa	PCB-169	*	*	n	NotFn	1.27	*		1610	2.5	0.716	*	0.995-1.005
Hepta	PCB-188	*	*	n	NotFn	1.78	*		1440	2.5	0.445	*	0.996-1.006
Hepta	PCB-184	*	*	n	NotFn	1.63	*		1440	2.5	0.485	*	1.006-1.016
Hepta	PCB-179	*	*	n	NotFn	1.63	*		1440	2.5	0.486	*	1.024-1.034
Hepta	PCB-176	*	*	n	NotFn	1.77	*		1440	2.5	0.448	*	1.035-1.045
Hepta	PCB-186	*	*	n	NotFn	1.77	*		1440	2.5	0.446	*	1.049-1.059
Hepta	PCB-178	*	*	n	NotFn	1.28	*		1440	2.5	0.619	*	1.061-1.071
Hepta	PCB-175	*	*	n	NotFn	1.30	*		1440	2.5	0.608	*	1.069-1.079
Hepta	PCB-182/187	*	*	n	NotFn	1.41	*		1440	2.5	0.563	*	1.073-1.083
Hepta	PCB-183	*	*	n	NotFn	1.51	*		1440	2.5	0.523	*	1.080-1.090
Hepta	PCB-185	*	*	n	NotFn	1.78	*		1440	2.5	0.624	*	0.951-0.961
Hepta	PCB-174	*	*	n	NotFn	1.70	*		1440	2.5	0.652	*	0.958-0.968
Hepta	PCB-181	*	*	n	NotFn	1.80	*		1440	2.5	0.619	*	0.960-0.970
Hepta	PCB-177	*	*	n	NotFn	1.59	*		1440	2.5	0.700	*	0.964-0.974
Hepta	PCB-171	*	*	n	NotFn	1.84	*		1440	2.5	0.602	*	0.969-0.979
Hepta	PCB-173	*	*	n	NotFn	1.50	*		1440	2.5	0.742	*	0.978-0.988
Hepta	PCB-172	*	*	n	NotFn	1.77	*		1440	2.5	0.628	*	0.987-0.997
Hepta	PCB-192	*	*	n	NotFn	2.29	*		1440	2.5	0.485	*	0.991-1.001
Hepta	PCB-180	*	*	n	NotFn	1.82	*		1440	2.5	0.610	*	0.995-1.005

Analyst: MJ

Date: 8/4/17

Client ID: OWS-FDBL-T170524113005 Filename: 170731E1 S:6 Acq:31-JUL-17 18:34:11 ConCal: ST170731E1-1
Lab ID: 1700918-02 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.934 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hepta	PCB-193	*	*	n NotF	2.38	*		1440	2.5	0.467	*	0.999-1.009
Hepta	PCB-191	*	*	n NotF	2.44	*		1440	2.5	0.455	*	1.005-1.015
Hepta	PCB-170	*	*	n NotF	1.96	*		1440	2.5	0.592	*	0.995-1.005
Hepta	PCB-190	*	*	n NotF	2.72	*		1440	2.5	0.425	*	0.999-1.009
Hepta	PCB-189	*	*	n NotF	1.97	*		1440	2.5	0.363	*	0.995-1.005
Octa	PCB-202	*	*	n NotF	1.29	*		1580	2.5	1.12	*	0.995-1.005
Octa	PCB-201	*	*	n NotF	1.40	*		1580	2.5	1.03	*	1.005-1.015
Octa	PCB-204	*	*	n NotF	1.32	*		1580	2.5	1.10	*	1.009-1.019
Octa	PCB-197	*	*	n NotF	1.48	*		1580	2.5	0.979	*	1.015-1.025
Octa	PCB-200	*	*	n NotF	1.38	*		1580	2.5	1.05	*	1.034-1.044
Octa	PCB-198	*	*	n NotF	1.02	*		1580	2.5	1.43	*	1.063-1.073
Octa	PCB-199	*	*	n NotF	0.94	*		1580	2.5	1.55	*	1.065-1.075
Octa	PCB-196/203	*	*	n NotF	1.07	*		1580	2.5	1.36	*	1.071-1.081
Octa	PCB-195	*	*	n NotF	1.01	*		1170	2.5	0.922	*	0.979-0.989
Octa	PCB-194	*	*	n NotF	1.11	*		1170	2.5	0.839	*	0.995-1.005
Octa	PCB-205	*	*	n NotF	1.43	*		1170	2.5	0.650	*	1.000-1.010
Nona	PCB-208	*	*	n NotF	1.16	*		1390	2.5	0.480	*	0.995-1.005
Nona	PCB-207	*	*	n NotF	1.18	*		1390	2.5	0.471	*	1.001-1.011
Nona	PCB-206	*	*	n NotF	0.98	*		1390	2.5	0.745	*	0.995-1.005
Deca	PCB-209	*	*	n NotF	1.56	*		1010	2.5	0.453	*	0.995-1.005

Analyst: M

Date: 8/4/17

Client ID: OWS-FDBL-T170524113005 Filename: 170731E1 S:6 Acq:31-JUL-17 18:34:11 ConCal: ST170731E1-1
Lab ID: 1700918-02 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.934 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	1.94e+05	3.29	y	16:03	1.33	4.29117	
Total Di-PCB	2.17e+06	1.45	y	20:02	1.05	50.6816	
Total Tri-PCB	3.50e+06	1.17	y	24:13	1.54	94.2653	
Total Tri-PCB	1.60e+06	0.99	y	29:00	0.94	72.6485	Sum:166.914
Total Tetra-PCB	4.04e+06	0.85	y	29:47	1.25	101.621	
Total Penta-PCB	8.74e+05	1.63	y	35:50	1.47	20.3332	
Total Penta-PCB	*	*	n	NotFnd	1.13	*	Sum:20.3332
Total Hexa-PCB	*	*	n	NotFnd	1.05	*	
Total Hexa-PCB	*	*	n	NotFnd	1.23	*	Sum:0.00000
Total Hepta-PCB	*	*	n	NotFnd	1.72	*	
Total Octa-PCB	*	*	n	NotFnd	1.22	*	
Total Octa-PCB	*	*	n	NotFnd	1.18	*	Sum:0.00000
Total Nona-PCB	*	*	n	NotFnd	1.12	*	
Total Deca-PCB	*	*	n	NotFnd	1.56	*	

Total PCB Conc:357.469131000

Integrations by Analyst: MJ

Date: 8/4/17

Client ID: OWS-FDBL-T170524113005 Filename: 170731E1 S:6 Acq:31-JUL-17 18:34:11 ConCal: ST170731E1-1

Lab ID: 1700918-02 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:0.9345 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-1	7.11e+07	3.08	y	0.70	16:02	0.619	0.617-0.623	1670	77.9
13C-PCB-3	7.62e+07	3.13	y	0.79	18:41	0.720	0.717-0.725	1600	74.8
13C-PCB-4	5.98e+07	1.57	y	0.54	20:01	0.772	0.769-0.777	1830	85.5
13C-PCB-9	8.55e+07	1.55	y	0.89	21:50	0.842	0.838-0.846	1590	74.1
13C-PCB-11	9.39e+07	1.55	y	0.93	25:13	0.973	0.968-0.978	1660	77.7
13C-PCB-19	4.11e+07	1.04	y	0.41	24:12	0.933	0.928-0.938	1660	77.8
13C-PCB-28	5.00e+07	0.98	y	1.04	29:05	1.004	0.999-1.009	1950	91.3
13C-PCB-32	6.46e+07	1.01	y	0.63	27:08	1.046	1.041-1.051	1700	79.2
13C-PCB-37	5.21e+07	1.05	y	1.00	32:58	1.138	1.132-1.144	2130	99.5
13C-PCB-47	7.02e+07	0.80	y	0.80	32:01	0.871	0.867-0.875	1820	84.9
13C-PCB-52	6.32e+07	0.79	y	0.74	31:31	0.857	0.853-0.861	1760	82.1
13C-PCB-54	7.15e+07	0.80	y	0.94	27:57	0.760	0.757-0.765	1580	73.7
13C-PCB-70	8.70e+07	0.81	y	0.99	35:32	0.967	0.961-0.971	1810	84.4
13C-PCB-77	9.14e+07	0.81	y	0.97	39:38	1.078	1.073-1.083	1950	91.0
13C-PCB-80	9.08e+07	0.83	y	1.01	35:57	0.978	0.973-0.983	1860	86.8
13C-PCB-81	9.28e+07	0.80	y	1.01	39:03	1.062	1.057-1.067	1890	88.5
13C-PCB-95	5.85e+07	1.58	y	0.80	35:50	0.913	0.908-0.918	1750	81.5
13C-PCB-97	5.46e+07	1.58	y	0.70	38:48	0.989	0.984-0.994	1870	87.6
13C-PCB-101	6.11e+07	1.60	y	0.81	37:31	0.956	0.951-0.961	1820	85.0
13C-PCB-104	7.01e+07	1.56	y	1.01	32:40	0.832	0.828-0.836	1670	78.1
13C-PCB-105	6.89e+07	1.54	y	1.18	43:04	0.929	0.924-0.934	1510	70.6
13C-PCB-114	7.20e+07	1.57	y	1.18	42:13	0.911	0.905-0.915	1570	73.4
13C-PCB-118	8.04e+07	1.61	y	0.99	41:33	1.059	1.054-1.064	1940	90.8
13C-PCB-123	7.67e+07	1.58	y	0.94	41:22	1.054	1.049-1.059	1970	91.8
13C-PCB-126	7.39e+07	1.54	y	1.17	45:18	0.977	0.972-0.982	1640	76.5
13C-PCB-127	7.62e+07	1.59	y	1.26	43:25	0.937	0.931-0.941	1560	73.0
13C-PCB-138	8.45e+07	1.25	y	1.15	44:48	0.967	0.961-0.971	1890	88.4
13C-PCB-141	7.87e+07	1.26	y	1.11	43:58	0.949	0.943-0.953	1840	86.1
13C-PCB-153	9.49e+07	1.26	y	1.32	43:14	0.933	0.927-0.937	1860	86.9
13C-PCB-155	6.95e+07	1.29	y	0.76	37:04	0.944	0.939-0.949	2190	102
13C-PCB-156	1.03e+08	1.26	y	1.40	48:03	1.037	1.032-1.042	1900	88.8
13C-PCB-157	1.07e+08	1.30	y	1.40	48:19	1.042	1.038-1.048	1980	92.5
13C-PCB-159	1.05e+08	1.28	y	1.39	46:05	0.994	0.989-0.999	1940	90.9
13C-PCB-167	1.04e+08	1.28	y	1.41	46:46	1.009	1.004-1.014	1900	88.9
13C-PCB-169	1.06e+08	1.25	y	1.38	50:32	1.090	1.085-1.095	2000	93.3
13C-PCB-170	4.46e+07	0.45	y	0.83	50:56	1.103	1.093-1.103	2050	95.6
13C-PCB-180	5.08e+07	0.46	y	0.96	49:20	1.068	1.059-1.069	2010	94.0
13C-PCB-188	6.93e+07	0.46	y	1.36	42:51	0.928	0.919-0.929	1950	91.0
13C-PCB-189	6.45e+07	0.45	y	1.16	52:32	1.137	1.125-1.137	2120	99.2
13C-PCB-194	4.19e+07	0.86	y	0.74	54:05	0.995	0.990-1.000	1790	83.8
13C-PCB-202	5.48e+07	0.90	y	0.95	48:16	1.045	1.036-1.046	2210	103
13C-PCB-206	6.39e+07	0.79	y	0.91	55:38	1.024	1.019-1.029	2220	104
13C-PCB-208	8.43e+07	0.78	y	1.19	53:20	0.981	0.977-0.987	2230	104
13C-PCB-209	6.28e+07	1.21	y	0.80	56:57	1.048	1.044-1.054	2480	116

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-79	1.03e+08	0.79	y	1.02	37:50	1.029	1.024-1.033	2080	97.0
13C-PCB-178	4.97e+07	0.46	y	0.90	45:39	0.985	0.980-0.989	2100	98.1

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-79	1.03e+08	0.79	y	1.01	37:50	0.969	0.963-0.973	2340	110
13C-PCB-178	4.97e+07	0.46	y	0.94	45:39	0.925	0.920-0.930	2230	104

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.30e+08	1.56	y	1.00	25:56	2140
13C-PCB-31	5.24e+07	1.03	y	1.00	28:59	2140
13C-PCB-60	1.04e+08	0.79	y	1.00	36:46	2140
13C-PCB-111	8.92e+07	1.57	y	1.00	39:15	2140
13C-PCB-128	8.28e+07	1.26	y	1.00	46:21	2140
13C-PCB-182	5.61e+07	0.47	y	1.00	46:11	2140
13C-PCB-205	6.80e+07	0.86	y	1.00	54:21	2140

Analyst: MI

Date: 8/4/17

Sample ID: OWS-LHAL-T170531110644

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 26-May-2017 10:27

Sample Data
Matrix: Water
Sample Size: 0.992 L

Laboratory Data
Lab Sample: 1700918-03 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 19:39 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	228	5.04		
PCB-2	2.34	5.04		J
PCB-3	27.7	5.04		
PCB-4/10	3200	10.1		
PCB-5/8	134	10.1		
PCB-6	47.1	5.04		
PCB-7/9	14.7	10.1		
PCB-11	20.6	5.04		
PCB-12/13	28.7	10.1		
PCB-14	ND	5.04	1.98	U
PCB-15	167	5.04		
PCB-16/32	340	10.1		
PCB-17	229	5.04		
PCB-18	327	5.04		
PCB-19	945	5.04		
PCB-20/21/33	80.2	15.1		
PCB-22	59.7	5.04		
PCB-23	ND	5.04	2.53	U
PCB-24/27	303	10.1		
PCB-25	35.7	5.04		
PCB-26	117	5.04		
PCB-28	219	5.04		
PCB-29	ND	5.04	2.43	U
PCB-30	ND	5.04	1.19	U
PCB-31	247	5.04		
PCB-34	ND	7.18	7.18	UM
PCB-35	3.34	5.04		J
PCB-36	ND	5.04	2.47	U
PCB-37	53.2	5.04		
PCB-38	11.5	5.04		
PCB-39	ND	5.04	1.36	UM
PCB-40	48.3	5.04		
PCB-41/64/71/72	245	20.2		
PCB-42/59	85.0	10.1		
PCB-43/49	257	10.1		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-44	202	5.04		
PCB-45	56.8	5.04		
PCB-46	24.0	5.04		
PCB-47	145	5.04		
PCB-48/75	36.0	10.1		
PCB-50	3.47	5.04		J
PCB-51	31.2	5.04		
PCB-52/69	325	10.1		
PCB-53	132	5.04		
PCB-54	12.5	5.04		
PCB-55	3.87	5.04		J
PCB-56/60	101	10.1		
PCB-57	2.92	5.04		J
PCB-58	ND	5.04	0.711	UM
PCB-61/70	139	10.1		
PCB-62	ND	5.04	1.16	U
PCB-63	12.5	5.04		
PCB-65	ND	5.04	1.23	U
PCB-66/76	138	10.1		
PCB-67	7.45	5.04		
PCB-68	6.73	5.04		
PCB-73	5.71	5.04		
PCB-74	76.1	5.04		
PCB-77	13.8	5.04		
PCB-78	ND	5.04	0.927	U
PCB-79	ND	5.04	0.885	U
PCB-80	ND	5.04	0.797	U
PCB-81	ND	5.04	0.715	UM
PCB-82	17.5	5.04		
PCB-83	ND	5.04	1.13	U
PCB-84/92	67.6	10.1		
PCB-85/116	22.3	10.1		
PCB-86	ND	5.04	1.93	U
PCB-87/117/125	44.0	15.1		
PCB-88/91	33.5	5.04		

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-LHAL-T170531110644

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 26-May-2017 10:27

Sample Data
Matrix: Water
Sample Size: 0.992 L

Laboratory Data
Lab Sample: 1700918-03 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 19:39 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	2.91	5.04		J
PCB-90/101	95.3	10.1		
PCB-93	ND	5.04	1.82	U
PCB-94	5.69	5.04		
PCB-95/98/102	128	15.1		
PCB-96	4.86	5.04		J
PCB-97	32.9	5.04		
PCB-99	51.7	5.04		
PCB-100	ND	5.04	2.83	UM
PCB-103	3.53	5.04		J
PCB-104	ND	5.04	1.24	U
PCB-105	40.8	5.04		
PCB-106/118	70.3	10.1		
PCB-107/109	7.35	10.1		J
PCB-108/112	9.52	10.1		J
PCB-110	121	5.04		
PCB-111/115	2.29	10.1		J
PCB-113	0.869	5.04		J
PCB-114	ND	5.04	2.38	UM
PCB-119	3.47	5.04		J
PCB-120	ND	5.04	0.953	U
PCB-121	ND	5.04	1.13	U
PCB-122	1.62	5.04		J
PCB-123	1.88	5.04		J
PCB-124	3.17	5.04		J
PCB-126	ND	5.04	1.57	U
PCB-127	ND	5.04	1.52	U
PCB-128/162	10.2	10.1		
PCB-129	ND	5.04	2.84	UM
PCB-130	5.49	5.04		
PCB-131/133	3.64	10.1		J
PCB-132/161	17.7	10.1		
PCB-134/143	5.68	10.1		J
PCB-135	11.8	5.04		
PCB-136	10.7	5.04		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-137	2.99	5.04		J
PCB-138/163/164	66.3	15.1		
PCB-139/149	51.5	10.1		
PCB-140	ND	5.04	1.19	U
PCB-141	8.30	5.04		
PCB-142	ND	5.04	1.13	U
PCB-144	2.62	5.04		J
PCB-145	ND	5.04	0.883	U
PCB-146/165	10.6	10.1		
PCB-147	4.13	5.04		J
PCB-148	ND	5.04	1.17	U
PCB-150	ND	5.04	0.864	U
PCB-151	19.4	5.04		
PCB-152	ND	5.04	0.850	U
PCB-153	49.5	5.04		
PCB-154	1.95	5.04		J
PCB-155	ND	5.04	0.807	U
PCB-156	6.13	5.04		
PCB-157	1.47	5.04		J
PCB-158/160	5.79	10.1		J
PCB-159	ND	5.04	0.652	U
PCB-166	ND	5.04	0.710	U
PCB-167	2.43	5.04		J
PCB-168	ND	5.04	0.711	U
PCB-169	ND	5.04	0.750	U
PCB-170	8.40	5.04		
PCB-171	2.53	5.04		J
PCB-172	1.49	5.04		J
PCB-173	ND	5.04	0.777	U
PCB-174	9.46	5.04		
PCB-175	ND	5.04	0.659	U
PCB-176	1.73	5.04		J
PCB-177	7.09	5.04		
PCB-178	4.77	5.04		J
PCB-179	ND	5.07	5.07	UM

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-LHAL-T170531110644

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 26-May-2017 10:27

Sample Data
Matrix: Water
Sample Size: 0.992 L

Laboratory Data
Lab Sample: 1700918-03 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 19:39 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	19.0	5.04		
PCB-181	ND	5.04	0.648	U
PCB-182/187	14.5	10.1		
PCB-183	4.38	5.04		J
PCB-184	ND	5.04	0.525	U
PCB-185	ND	5.04	0.654	U
PCB-186	ND	5.04	0.483	U
PCB-188	ND	5.04	0.482	U
PCB-189	ND	5.04	0.437	U
PCB-190	1.90	5.04		J
PCB-191	ND	5.04	0.477	U
PCB-192	ND	5.04	0.508	U
PCB-193	1.30	5.04		J
PCB-194	ND	5.04	3.67	UM
PCB-195	1.68	5.04		J
PCB-196/203	7.02	10.1		J
PCB-197	ND	5.04	0.921	U
PCB-198	ND	5.04	1.34	U
PCB-199	9.17	5.04		
PCB-200	1.00	5.04		J
PCB-201	ND	5.04	0.701	UM
PCB-202	ND	5.04	1.89	UM
PCB-204	ND	5.04	1.03	U
PCB-205	ND	5.04	0.717	U
PCB-206	4.14	5.04		J
PCB-207	ND	5.04	0.256	U
PCB-208	ND	5.04	1.54	UM
PCB-209	2.74	5.04		J
Total monoCB	258			
Total diCB	3620			
Total triCB	2970			
Total tetraCB	2110			
Total pentaCB	772			
Total hexaCB	298			
Total heptaCB	76.5			

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	18.9			
Total nonaCB	4.14			
DecaCB	2.74			
Total PCB	10100			

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-LHAL-T170531110644

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 26-May-2017 10:27

Sample Data
Matrix: Water
Sample Size: 0.992 L

Laboratory Data
Lab Sample: 1700918-03 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 19:39 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	57.3	5 -145	
	13C-PCB-3	58.4	5 -145	
	13C-PCB-4	71.9	5 -145	
	13C-PCB-11	71.4	5 -145	
	13C-PCB-9	74.9	5 -145	
	13C-PCB-19	63.0	5 -145	
	13C-PCB-28	79.6	5 -145	
	13C-PCB-32	74.0	5 -145	
	13C-PCB-37	90.7	5 -145	
	13C-PCB-47	82.9	5 -145	
	13C-PCB-52	83.4	5 -145	
	13C-PCB-54	72.6	5 -145	
	13C-PCB-70	91.2	5 -145	
	13C-PCB-77	94.5	10 -145	
	13C-PCB-80	93.7	10 -145	
	13C-PCB-81	93.3	10 -145	
	13C-PCB-95	82.0	10 -145	
	13C-PCB-97	88.9	10 -145	
	13C-PCB-101	86.5	10 -145	
	13C-PCB-104	77.2	10 -145	
	13C-PCB-105	73.7	10 -145	
	13C-PCB-114	69.5	10 -145	
	13C-PCB-118	92.5	10 -145	
	13C-PCB-123	93.1	10 -145	
	13C-PCB-126	69.5	10 -145	
	13C-PCB-127	71.9	10 -145	
	13C-PCB-138	90.2	10 -145	
	13C-PCB-141	89.5	10 -145	
	13C-PCB-153	88.4	10 -145	
	13C-PCB-155	102	10 -145	
	13C-PCB-156	92.1	10 -145	
	13C-PCB-157	94.2	10 -145	
	13C-PCB-159	92.9	10 -145	
	13C-PCB-167	91.8	10 -145	
	13C-PCB-169	92.3	10 -145	
	13C-PCB-170	94.5	10 -145	
	13C-PCB-180	95.1	10 -145	
	13C-PCB-188	90.5	10 -145	
	13C-PCB-189	91.9	10 -145	
	13C-PCB-194	100	10 -145	
	13C-PCB-202	94.3	10 -145	
	13C-PCB-206	131	10 -145	
	13C-PCB-208	134	10 -145	
	13C-PCB-209	157	10 -145	H
CRS	13C-PCB-79	100	10 -145	
	13C-PCB-178	101	10 -145	

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Client ID: OWS-LHAL-T170531110644 Filename: 170731E1 S:7 Acq:31-JUL-17 19:39:17 ConCal: ST170731E1-1

Lab ID: 1700918-03 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.992 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	9.18e+06	2.99	y	16:03	1.36	228.1		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	1.03e+05	3.20	y	18:27	1.30	2.337		*	2.5	*	0.988	0.983-0.993
Mono	PCB-3	1.24e+06	3.05	y	18:41	1.33	27.70		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	1.20e+08	1.59	y	20:03	1.32	3204		*	2.5	*	1.002	0.997-1.007
Di	PCB-7/9	7.19e+05	1.35	y	21:51	1.00	14.69		*	2.5	*	0.866	0.864-0.871
Di	PCB-6	2.27e+06	1.69	y	22:31	0.99	47.06		*	2.5	*	0.893	0.888-0.897
Di	PCB-5/8	6.77e+06	1.64	y	22:54	1.03	134.2		*	2.5	*	0.908	0.905-0.915
Di	PCB-14	*	*	n	NotF	1.16	*		4700	2.5	1.98	*	0.948-0.958
Di	PCB-11	1.03e+06	1.55	y	25:14	1.03	20.60		*	2.5	*	1.001	0.996-1.006
Di	PCB-12/13	1.44e+06	1.46	y	25:36	1.03	28.67		*	2.5	*	1.015	1.011-1.021
Di	PCB-15	9.47e+06	1.56	y	25:56	1.17	166.6		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	2.70e+07	1.02	y	24:12	1.52	945.0		*	2.5	*	1.000	0.996-1.006
Tri	PCB-30	*	*	n	NotF	2.51	*		2970	2.5	1.19	*	1.033-1.043
Tri	PCB-18	1.23e+07	1.04	y	25:52	1.11	326.7		*	2.5	*	0.954	0.949-0.959
Tri	PCB-17	9.44e+06	1.04	y	26:02	1.21	229.0		*	2.5	*	0.960	0.955-0.965
Tri	PCB-24/27	1.66e+07	1.01	y	26:36	1.61	303.3		*	2.5	*	0.981	0.976-0.986
Tri	PCB-16/32	1.56e+07	1.05	y	27:08	1.35	339.6		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	1.41e+05	1.35	n	27:56	0.98	7.184	R	*	2.5	*	0.960	0.955-0.965
Tri	PCB-23	*	*	n	NotF	0.93	*		2020	2.5	2.53	*	0.958-0.968
Tri	PCB-29	*	*	n	NotF	0.97	*		2020	2.5	2.43	*	0.967-0.977
Tri	PCB-26	2.27e+06	0.92	y	28:29	0.96	116.8		*	2.5	*	0.979	0.975-0.985
Tri	PCB-25	6.26e+05	0.90	y	28:38	0.87	35.67		*	2.5	*	0.984	0.980-0.990
Tri	PCB-31	4.97e+06	0.94	y	29:00	1.00	247.2		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	4.12e+06	0.93	y	29:06	0.93	219.1		*	2.5	*	1.000	0.995-1.005
Tri	PCB-20/21/33	1.43e+06	1.03	y	29:45	0.89	80.21		*	2.5	*	1.023	1.017-1.027
Tri	PCB-22	1.12e+06	0.92	y	30:09	0.93	59.68		*	2.5	*	1.036	1.032-1.042
Tri	PCB-36	*	*	n	NotF	0.94	*		2020	2.5	2.47	*	0.929-0.939
Tri	PCB-39	2.99e+04	1.33	n	31:15	1.01	1.356	R	*	2.5	*	0.948	0.943-0.953
Tri	PCB-38	2.27e+05	1.20	y	32:02	0.90	11.50		*	2.5	*	0.972	0.966-0.976
Tri	PCB-35	6.52e+04	1.16	y	32:32	0.89	3.335		*	2.5	*	0.987	0.982-0.992
Tri	PCB-37	1.20e+06	1.02	y	32:59	1.03	53.20		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-54	5.33e+05	0.66	y	27:59	1.17	12.46		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-50	1.19e+05	0.81	y	29:08	0.94	3.473		*	2.5	*	1.042	1.038-1.048
Tetra	PCB-53	5.21e+06	0.75	y	29:48	1.19	131.7		*	2.5	*	0.946	0.941-0.951
Tetra	PCB-51	1.30e+06	0.74	y	30:08	1.25	31.17		*	2.5	*	0.956	0.952-0.962
Tetra	PCB-45	2.03e+06	0.80	y	30:33	1.08	56.85		*	2.5	*	0.970	0.966-0.976
Tetra	PCB-46	8.06e+05	0.68	y	31:04	1.01	24.04		*	2.5	*	0.986	0.981-0.991

Integrations by:

Analyst: MJ

Date: 8/4/17

Reviewed by: [illegible]

Date: 8/5/17

Client ID: OWS-LHAL-T170531110644 Filename: 170731E1 S:7 Acq:31-JUL-17 19:39:17 ConCal: ST170731E1-1

Lab ID: 1700918-03 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.992 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	1.50e+07	0.75	y 31:31	1.39	325.1		*	2.5	*	1.000	0.996-1.006
Tetra	PCB-73	2.86e+05	0.76	y 31:40	1.51	5.714		*	2.5	*	1.005	1.000-1.010
Tetra	PCB-43/49	1.03e+07	0.80	y 31:49	1.20	257.5		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	6.13e+06	0.79	y 32:02	1.19	145.2		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-48/75	1.77e+06	0.79	y 32:09	1.39	36.03		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n NotP	1.31	*		2720	2.5	1.23	*	1.007-1.017
Tetra	PCB-62	*	*	n NotP	1.38	*		2720	2.5	1.16	*	1.011-1.021
Tetra	PCB-44	6.88e+06	0.79	y 32:49	0.96	201.9		*	2.5	*	1.025	1.020-1.030
Tetra	PCB-42/59	4.00e+06	0.75	y 33:03	1.32	85.04		*	2.5	*	1.032	1.027-1.037
Tetra	PCB-41/64/71/72	1.20e+07	0.78	y 33:38	1.38	245.1		*	2.5	*	1.051	1.046-1.056
Tetra	PCB-68	3.89e+05	0.72	y 33:53	1.63	6.725		*	2.5	*	1.059	1.054-1.064
Tetra	PCB-40	1.56e+06	0.77	y 34:06	0.91	48.34		*	2.5	*	1.065	1.061-1.071
Tetra	PCB-57	1.75e+05	0.87	y 34:28	1.23	2.921		*	2.5	*	0.970	0.965-0.975
Tetra	PCB-67	4.39e+05	0.70	y 34:47	1.21	7.452		*	2.5	*	0.979	0.974-0.984
Tetra	PCB-58	4.43e+04	0.56	n 34:53	1.28	0.7114	R	*	2.5	*	0.982	0.977-0.987
Tetra	PCB-63	7.95e+05	0.78	y 35:02	1.30	12.51		*	2.5	*	0.986	0.981-0.991
Tetra	PCB-74	4.86e+06	0.77	y 35:19	1.31	76.13		*	2.5	*	0.994	0.990-1.000
Tetra	PCB-61/70	8.37e+06	0.81	y 35:33	1.23	139.3		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	8.63e+06	0.76	y 35:44	1.29	137.6		*	2.5	*	1.006	1.000-1.010
Tetra	PCB-80	*	*	n NotP	1.49	*		2720	2.5	0.797	*	0.996-1.006
Tetra	PCB-55	2.68e+05	0.84	y 36:16	1.36	3.870		*	2.5	*	1.009	1.004-1.014
Tetra	PCB-56/60	6.42e+06	0.80	y 36:46	1.25	100.8		*	2.5	*	1.023	1.018-1.028
Tetra	PCB-79	*	*	n NotP	1.34	*		2720	2.5	0.885	*	1.048-1.058
Tetra	PCB-78	*	*	n NotP	1.29	*		2720	2.5	0.927	*	0.982-0.992
Tetra	PCB-81	5.01e+04	0.79	y 39:02	1.38	0.7150		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-77	9.59e+05	0.84	y 39:40	1.42	13.76		*	2.5	*	1.001	0.995-1.005
Penta	PCB-104	*	*	n NotP	1.47	*		2220	2.5	1.24	*	0.996-1.006
Penta	PCB-96	2.35e+05	1.60	y 33:57	1.29	4.857		*	2.5	*	1.040	1.034-1.044
Penta	PCB-103	1.57e+05	1.78	y 34:28	1.19	3.533		*	2.5	*	1.056	1.051-1.061
Penta	PCB-100	1.25e+05	1.25	n 34:50	1.18	2.833	R	*	2.5	*	1.067	1.061-1.071
Penta	PCB-94	2.27e+05	1.58	y 35:18	1.25	5.686		*	2.5	*	0.985	0.981-0.991
Penta	PCB-95/98/102	5.73e+06	1.60	y 35:50	1.40	128.4		*	2.5	*	1.000	0.994-1.004
Penta	PCB-93	*	*	n NotP	1.18	*		2220	2.5	1.82	*	0.998-1.008
Penta	PCB-88/91	1.41e+06	1.53	y 36:14	1.32	33.47		*	2.5	*	1.011	1.006-1.016
Penta	PCB-121	*	*	n NotP	1.89	*		2220	2.5	1.13	*	1.009-1.019
Penta	PCB-84/92	2.95e+06	1.60	y 37:09	1.30	67.58		*	2.5	*	0.990	0.985-0.995
Penta	PCB-89	1.20e+05	1.48	y 37:20	1.23	2.905		*	2.5	*	0.995	0.990-1.000

Analyst: MI

Date: 8/4/17

Client ID: OWS-LHAL-T170531110644 Filename: 170731E1 S:7 Acq:31-JUL-17 19:39:17 ConCal: ST170731E1-1

Lab ID: 1700918-03 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.992 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	4.70e+06	1.58	y	37:31	1.47	95.31		*	2.5	*	1.000	0.995-1.005
Penta	PCB-113	4.83e+04	1.58	y	37:45	1.65	0.8695		*	2.5	*	1.006	1.001-1.011
Penta	PCB-99	2.57e+06	1.56	y	37:52	1.48	51.68		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	2.34e+05	1.53	y	38:19	2.25	3.467		*	2.5	*	0.987	0.982-0.992
Penta	PCB-108/112	4.89e+05	1.40	y	38:29	1.71	9.523		*	2.5	*	0.992	0.986-0.996
Penta	PCB-83	*	*	n	NotF	2.05	*		2220	2.5	1.13	*	0.990-1.000
Penta	PCB-97	1.54e+06	1.58	y	38:50	1.56	32.91		*	2.5	*	1.001	0.995-1.005
Penta	PCB-86	*	*	n	NotF	1.20	*		2220	2.5	1.93	*	0.999-1.009
Penta	PCB-87/117/125	2.52e+06	1.49	y	39:07	1.91	43.98		*	2.5	*	1.008	1.002-1.012
Penta	PCB-111/115	1.54e+05	1.69	y	39:15	2.24	2.290		*	2.5	*	1.011	1.006-1.016
Penta	PCB-85/116	1.11e+06	1.59	y	39:22	1.66	22.31		*	2.5	*	1.014	1.010-1.020
Penta	PCB-120	*	*	n	NotF	2.43	*		2220	2.5	0.953	*	1.016-1.026
Penta	PCB-110	7.16e+06	1.59	y	39:47	1.98	120.8		*	2.5	*	1.025	1.019-1.029
Penta	PCB-82	6.69e+05	1.72	y	40:23	0.91	17.55		*	2.5	*	0.976	0.971-0.981
Penta	PCB-124	2.12e+05	1.64	y	41:04	1.59	3.169		*	2.5	*	0.993	0.988-0.998
Penta	PCB-107/109	4.90e+05	1.52	y	41:14	1.58	7.348		*	2.5	*	0.997	0.991-1.001
Penta	PCB-123	1.25e+05	1.76	y	41:23	1.58	1.877		*	2.5	*	1.000	0.996-1.006
Penta	PCB-106/118	4.89e+06	1.56	y	41:34	1.57	70.30		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	9.85e+04	2.64	n	42:13	1.18	2.378	R	*	2.5	*	1.000	0.995-1.005
Penta	PCB-122	6.09e+04	1.59	y	42:21	1.07	1.621		*	2.5	*	1.004	0.999-1.009
Penta	PCB-105	1.85e+06	1.56	y	43:05	1.23	40.76		*	2.5	*	1.000	0.995-1.005
Penta	PCB-127	*	*	n	NotF	1.03	*		1860	2.5	1.52	*	0.995-1.005
Penta	PCB-126	*	*	n	NotF	1.12	*		1860	2.5	1.57	*	0.995-1.005
Hexa	PCB-155	*	*	n	NotF	1.31	*		1400	2.5	0.807	*	0.966-1.006
Hexa	PCB-150	*	*	n	NotF	1.22	*		1400	2.5	0.864	*	1.030-1.040
Hexa	PCB-152	*	*	n	NotF	1.24	*		1400	2.5	0.850	*	1.042-1.052
Hexa	PCB-145	*	*	n	NotF	1.20	*		1400	2.5	0.883	*	1.054-1.064
Hexa	PCB-136	5.10e+05	1.13	y	39:34	1.28	10.67		*	2.5	*	1.068	1.063-1.073
Hexa	PCB-148	*	*	n	NotF	0.91	*		1400	2.5	1.17	*	1.066-1.076
Hexa	PCB-154	7.29e+04	1.12	y	40:10	1.00	1.955		*	2.5	*	1.084	1.079-1.089
Hexa	PCB-151	6.65e+05	1.30	y	40:48	0.92	19.41		*	2.5	*	1.101	1.097-1.107
Hexa	PCB-135	3.89e+05	1.35	y	41:02	0.88	11.78		*	2.5	*	1.108	1.101-1.113
Hexa	PCB-144	9.66e+04	1.19	y	41:08	0.98	2.622		*	2.5	*	1.110	1.105-1.116
Hexa	PCB-147	1.34e+05	1.13	y	41:16	0.87	4.125		*	2.5	*	1.114	1.108-1.120
Hexa	PCB-139/149	1.89e+06	1.28	y	41:31	0.98	51.47		*	2.5	*	1.121	1.115-1.127
Hexa	PCB-140	*	*	n	NotF	0.89	*		1400	2.5	1.19	*	1.120-1.132
Hexa	PCB-134/143	2.68e+05	1.12	y	42:10	0.95	5.684		*	2.5	*	0.976	0.970-0.980

Analyst: MJ

Date: 8/4/17

Client ID: OWS-LHAL-T170531110644 Filename: 170731E1 S:7 Acq:31-JUL-17 19:39:17 ConCal: ST170731E1-1

Lab ID: 1700918-03 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.992 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-131/133	1.70e+05	1.06	y 42:27	0.94	3.638		*	2.5	*	0.982	0.977-0.987
Hexa	PCB-142	*	*	n NotF¶	0.91	*		1800	2.5	1.13	*	0.981-0.991
Hexa	PCB-146/165	6.16e+05	1.38	y 42:50	1.18	10.56		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	1.03e+06	1.35	y 43:06	1.17	17.75		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	2.97e+06	1.25	y 43:15	1.21	49.48		*	2.5	*	1.001	0.995-1.005
Hexa	PCB-168	*	*	n NotF¶	1.46	*		1800	2.5	0.711	*	1.000-1.010
Hexa	PCB-141	4.54e+05	1.32	y 43:59	1.30	8.300		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-137	1.67e+05	1.21	y 44:22	1.32	2.990		*	2.5	*	1.009	1.004-1.014
Hexa	PCB-130	2.47e+05	1.32	y 44:27	1.07	5.491		*	2.5	*	1.011	1.007-1.017
Hexa	PCB-138/163/164	4.20e+06	1.28	y 44:49	1.43	66.28		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-158/160	4.04e+05	1.19	y 45:03	1.57	5.791		*	2.5	*	1.005	1.001-1.011
Hexa	PCB-129	1.32e+05	1.52	n 45:18	1.05	2.838	R	*	2.5	*	1.011	1.007-1.017
Hexa	PCB-166	*	*	n NotF¶	1.31	*		1800	2.5	0.710	*	0.988-0.998
Hexa	PCB-159	*	*	n NotF¶	1.42	*		1800	2.5	0.652	*	0.995-1.005
Hexa	PCB-128/162	6.48e+05	1.25	y 46:22	1.15	10.24		*	2.5	*	1.006	1.002-1.012
Hexa	PCB-167	1.77e+05	1.10	y 46:46	1.32	2.428		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-156	4.65e+05	1.19	y 48:04	1.38	6.131		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-157	1.13e+05	1.35	y 48:20	1.38	1.467		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-169	*	*	n NotF¶	1.27	*		1800	2.5	0.750	*	0.995-1.005
Hepta	PCB-188	*	*	n NotF¶	1.78	*		1800	2.5	0.482	*	0.996-1.006
Hepta	PCB-184	*	*	n NotF¶	1.63	*		1800	2.5	0.525	*	1.006-1.016
Hepta	PCB-179	2.97e+05	1.28	n 44:05	1.63	5.067	R	*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	1.10e+05	1.06	y 44:33	1.77	1.727		*	2.5	*	1.039	1.035-1.045
Hepta	PCB-186	*	*	n NotF¶	1.77	*		1800	2.5	0.483	*	1.049-1.059
Hepta	PCB-178	2.20e+05	1.07	y 45:40	1.28	4.768		*	2.5	*	1.066	1.061-1.071
Hepta	PCB-175	*	*	n NotF¶	1.30	*		1800	2.5	0.659	*	1.069-1.079
Hepta	PCB-182/187	7.33e+05	1.05	y 46:10	1.41	14.45		*	2.5	*	1.077	1.073-1.083
Hepta	PCB-183	2.39e+05	1.12	y 46:29	1.51	4.383		*	2.5	*	1.085	1.080-1.090
Hepta	PCB-185	*	*	n NotF¶	1.78	*		1800	2.5	0.654	*	0.951-0.961
Hepta	PCB-174	4.33e+05	1.08	y 47:30	1.70	9.457		*	2.5	*	0.963	0.958-0.968
Hepta	PCB-181	*	*	n NotF¶	1.80	*		1800	2.5	0.648	*	0.960-0.970
Hepta	PCB-177	3.02e+05	0.96	y 47:47	1.59	7.085		*	2.5	*	0.969	0.964-0.974
Hepta	PCB-171	1.26e+05	1.09	y 48:04	1.84	2.533		*	2.5	*	0.974	0.969-0.979
Hepta	PCB-173	*	*	n NotF¶	1.50	*		1800	2.5	0.777	*	0.978-0.988
Hepta	PCB-172	7.08e+04	0.92	y 48:57	1.77	1.489		*	2.5	*	0.992	0.987-0.997
Hepta	PCB-192	*	*	n NotF¶	2.29	*		1800	2.5	0.508	*	0.991-1.001
Hepta	PCB-180	9.29e+05	1.10	y 49:21	1.82	18.98		*	2.5	*	1.000	0.995-1.005

Analyst: M

Date: 8/4/17

Client ID: OWS-LHAL-T170531110644 Filename: 170731E1 S:7 Acq:31-JUL-17 19:39:17 ConCal: ST170731E1-1

Lab ID: 1700918-03 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.992 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hepta	PCB-193	8.29e+04	0.96	y	49:33	2.38	1.295		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-191	*	*	n	NotFnd	2.44	*		1800	2.5	0.477	*	1.005-1.015
Hepta	PCB-170	3.80e+05	1.07	y	50:56	1.96	8.396		*	2.5	*	1.000	0.995-1.005
Hepta	PCB-190	1.20e+05	1.18	y	51:08	2.72	1.905		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-189	*	*	n	NotFnd	1.97	*		1800	2.5	0.437	*	0.995-1.005
Octa	PCB-202	6.40e+04	0.59	n	48:16	1.29	1.886	R	*	2.5	*	1.000	0.995-1.005
Octa	PCB-201	2.58e+04	1.47	n	48:45	1.40	0.7009	R	*	2.5	*	1.010	1.005-1.015
Octa	PCB-204	*	*	n	NotFnd	1.32	*		1520	2.5	1.03	*	1.009-1.019
Octa	PCB-197	*	*	n	NotFnd	1.48	*		1520	2.5	0.921	*	1.015-1.025
Octa	PCB-200	3.63e+04	0.87	y	50:07	1.38	1.002		*	2.5	*	1.038	1.034-1.044
Octa	PCB-198	*	*	n	NotFnd	1.02	*		1520	2.5	1.34	*	1.063-1.073
Octa	PCB-199	2.25e+05	0.78	y	51:42	0.94	9.166		*	2.5	*	1.071	1.065-1.075
Octa	PCB-196/203	1.96e+05	0.91	y	52:00	1.07	7.016		*	2.5	*	1.077	1.071-1.081
Octa	PCB-195	3.40e+04	0.87	y	53:12	1.01	1.678		*	2.5	*	0.984	0.979-0.989
Octa	PCB-194	8.15e+04	0.68	n	54:06	1.11	3.667	R	*	2.5	*	1.000	0.995-1.005
Octa	PCB-205	*	*	n	NotFnd	1.43	*		1320	2.5	0.717	*	1.000-1.010
Nona	PCB-208	7.70e+04	1.75	n	53:21	1.16	1.544	R	*	2.5	*	1.000	0.995-1.005
Nona	PCB-207	*	*	n	NotFnd	1.18	*		2050	1.0	0.256	*	1.001-1.011
Nona	PCB-206	1.31e+05	1.52	y	55:39	0.98	4.139		*	2.5	*	1.000	0.995-1.005
Deca	PCB-209	1.46e+05	1.23	y	56:58	1.56	2.738		*	2.5	*	1.000	0.995-1.005

Analyst: MJ

Date: 8/4/17

Client ID: OWS-LHAL-T170531110644 Filename: 170731E1 S:7 Acq:31-JUL-17 19:39:17 ConCal: ST170731E1-1
Lab ID: 1700918-03 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.992 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	1.05e+07	2.99	y	16:03	1.33	258.144	
Total Di-PCB	1.42e+08	1.59	y	20:03	1.05	3615.94	
Total Tri-PCB	8.10e+07	1.02	y	24:12	1.54	2143.67	
Total Tri-PCB	1.60e+07	0.92	y	28:29	0.94	826.711	Sum:2970.38
Total Tetra-PCB	9.93e+07	0.66	y	27:59	1.25	2111.33	
Total Penta-PCB	3.77e+07	1.60	y	33:57	1.47	729.828	
Total Penta-PCB	1.91e+06	1.59	y	42:21	1.13	42.3836	Sum:772.212
Total Hexa-PCB	3.76e+06	1.13	y	39:34	1.05	102.032	
Total Hexa-PCB	1.19e+07	1.12	y	42:10	1.23	196.221	Sum:298.252
Total Hepta-PCB	3.75e+06	1.06	y	44:33	1.72	76.4732	
Total Octa-PCB	4.57e+05	0.87	y	50:07	1.22	17.1843	
Total Octa-PCB	3.40e+04	0.87	y	53:12	1.18	1.67762	Sum:18.8619
Total Nona-PCB	1.31e+05	1.52	y	55:39	1.12	4.13889	
Total Deca-PCB	1.46e+05	1.23	y	56:58	1.56	2.73767	

Total PCB Conc:10158.6350740

Integrations
by
Analyst: MJ
Date: 8/4/17

Client ID: OWS-LHAL-T170531110644 Filename: 170731E1 S:7 Acq:31-JUL-17 19:39:17 ConCal: ST170731E1-1
Lab ID: 1700918-03 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:0.9925 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-1	5.96e+07	3.12 y	0.70	16:02	0.618	0.617-0.623	1160	57.3
13C-PCB-3	6.77e+07	3.13 y	0.79	18:40	0.720	0.717-0.725	1180	58.4
13C-PCB-4	5.73e+07	1.56 y	0.54	20:01	0.772	0.769-0.777	1450	71.9
13C-PCB-9	9.85e+07	1.55 y	0.89	21:49	0.842	0.838-0.846	1510	74.9
13C-PCB-11	9.82e+07	1.56 y	0.93	25:13	0.973	0.968-0.978	1440	71.4
13C-PCB-19	3.79e+07	1.01 y	0.41	24:11	0.933	0.928-0.938	1270	63.0
13C-PCB-28	4.06e+07	1.01 y	1.04	29:05	1.004	0.999-1.009	1600	79.6
13C-PCB-32	6.87e+07	1.03 y	0.63	27:08	1.046	1.041-1.051	1490	74.0
13C-PCB-37	4.42e+07	1.05 y	1.00	32:58	1.138	1.132-1.144	1830	90.7
13C-PCB-47	7.16e+07	0.80 y	0.80	32:01	0.871	0.867-0.875	1670	82.9
13C-PCB-52	6.70e+07	0.78 y	0.74	31:31	0.857	0.853-0.861	1680	83.4
13C-PCB-54	7.36e+07	0.80 y	0.94	27:57	0.760	0.757-0.765	1460	72.6
13C-PCB-70	9.82e+07	0.79 y	0.99	35:32	0.967	0.961-0.971	1840	91.2
13C-PCB-77	9.91e+07	0.82 y	0.97	39:39	1.078	1.073-1.083	1900	94.5
13C-PCB-80	1.02e+08	0.81 y	1.01	35:57	0.978	0.973-0.983	1890	93.7
13C-PCB-81	1.02e+08	0.79 y	1.01	39:03	1.062	1.057-1.067	1880	93.3
13C-PCB-95	6.41e+07	1.56 y	0.80	35:50	0.913	0.908-0.918	1650	82.0
13C-PCB-97	6.04e+07	1.60 y	0.70	38:49	0.989	0.984-0.994	1790	88.9
13C-PCB-101	6.77e+07	1.59 y	0.81	37:31	0.956	0.951-0.961	1740	86.5
13C-PCB-104	7.54e+07	1.60 y	1.01	32:39	0.832	0.828-0.836	1550	77.2
13C-PCB-105	7.45e+07	1.59 y	1.18	43:04	0.929	0.924-0.934	1480	73.7
13C-PCB-114	7.06e+07	1.56 y	1.18	42:12	0.911	0.905-0.915	1400	69.5
13C-PCB-118	8.92e+07	1.63 y	0.99	41:33	1.059	1.054-1.064	1860	92.5
13C-PCB-123	8.48e+07	1.60 y	0.94	41:22	1.054	1.049-1.059	1880	93.1
13C-PCB-126	6.96e+07	1.56 y	1.17	45:18	0.978	0.972-0.982	1400	69.5
13C-PCB-127	7.79e+07	1.57 y	1.26	43:25	0.937	0.931-0.941	1450	71.9
13C-PCB-138	8.94e+07	1.29 y	1.15	44:48	0.967	0.961-0.971	1820	90.2
13C-PCB-141	8.49e+07	1.27 y	1.11	43:58	0.949	0.943-0.953	1800	89.5
13C-PCB-153	9.99e+07	1.27 y	1.32	43:13	0.933	0.927-0.937	1780	88.4
13C-PCB-155	7.54e+07	1.31 y	0.76	37:03	0.944	0.939-0.949	2060	102
13C-PCB-156	1.11e+08	1.28 y	1.40	48:03	1.037	1.032-1.042	1860	92.1
13C-PCB-157	1.13e+08	1.30 y	1.40	48:19	1.043	1.038-1.048	1900	94.2
13C-PCB-159	1.11e+08	1.27 y	1.39	46:05	0.994	0.989-0.999	1870	92.9
13C-PCB-167	1.11e+08	1.26 y	1.41	46:46	1.009	1.004-1.014	1850	91.8
13C-PCB-169	1.09e+08	1.27 y	1.38	50:32	1.090	1.085-1.095	1860	92.3
13C-PCB-170	4.66e+07	0.48 y	0.83	50:56	1.103	1.093-1.103	1900	94.5
13C-PCB-180	5.42e+07	0.45 y	0.96	49:20	1.068	1.059-1.069	1920	95.1
13C-PCB-188	7.27e+07	0.45 y	1.36	42:51	0.928	0.919-0.929	1820	90.5
13C-PCB-189	6.31e+07	0.46 y	1.16	52:32	1.137	1.125-1.137	1850	91.9
13C-PCB-194	4.04e+07	0.83 y	0.74	54:05	0.995	0.990-1.000	2020	100
13C-PCB-202	5.29e+07	0.89 y	0.95	48:16	1.045	1.036-1.046	1900	94.3
13C-PCB-206	6.50e+07	0.77 y	0.91	55:38	1.024	1.019-1.029	2640	131
13C-PCB-208	8.69e+07	0.77 y	1.19	53:21	0.982	0.977-0.987	2690	134
13C-PCB-209	6.87e+07	1.19 y	0.80	56:57	1.048	1.044-1.054	3170	157

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-79	1.11e+08	0.80 y	1.02	37:49	1.029	1.024-1.033	2030	100
13C-PCB-178	5.41e+07	0.45 y	0.90	45:39	0.985	0.980-0.989	2040	101

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-79	1.11e+08	0.80 y	1.01	37:49	0.969	0.963-0.973	2170	108
13C-PCB-178	5.41e+07	0.45 y	0.94	45:39	0.925	0.920-0.930	2150	106

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.48e+08	1.56	y	1.00	25:55	2020
13C-PCB-31	4.88e+07	1.00	y	1.00	28:59	2020
13C-PCB-60	1.08e+08	0.79	y	1.00	36:46	2020
13C-PCB-111	9.72e+07	1.57	y	1.00	39:15	2020
13C-PCB-128	8.58e+07	1.28	y	1.00	46:21	2020
13C-PCB-182	5.92e+07	0.47	y	1.00	46:11	2020
13C-PCB-205	5.48e+07	0.86	y	1.00	54:21	2020

Analyst: MN

Date: 8/4/17

Sample ID: OWS-LHPO-T170531110915

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 26-May-2017 12:15

Sample Data
Matrix: Water
Sample Size: 0.979 L

Laboratory Data
Lab Sample: 1700918-04 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 20:44 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	141	5.11		
PCB-2	5.87	5.11		
PCB-3	32.7	5.11		
PCB-4/10	1200	10.2		
PCB-5/8	225	10.2		
PCB-6	93.4	5.11		
PCB-7/9	ND	10.2	4.66	U
PCB-11	22.9	5.11		
PCB-12/13	63.7	10.2		
PCB-14	ND	5.11	3.58	U
PCB-15	368	5.11		
PCB-16/32	428	10.2		
PCB-17	429	5.11		
PCB-18	629	5.11		
PCB-19	454	5.11		
PCB-20/21/33	61.9	15.3		
PCB-22	53.8	5.11		
PCB-23	ND	5.11	2.10	U
PCB-24/27	227	10.2		
PCB-25	70.1	5.11		
PCB-26	149	5.11		
PCB-28	333	5.11		
PCB-29	ND	5.11	2.01	U
PCB-30	ND	5.11	0.657	U
PCB-31	393	5.11		
PCB-34	5.43	5.11		
PCB-35	4.18	5.11		J
PCB-36	ND	5.11	1.82	U
PCB-37	79.3	5.11		
PCB-38	ND	14.6	14.6	UM
PCB-39	ND	5.11	1.70	U
PCB-40	47.2	5.11		
PCB-41/64/71/72	235	20.4		
PCB-42/59	79.0	10.2		
PCB-43/49	380	10.2		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-44	179	5.11		
PCB-45	55.3	5.11		
PCB-46	33.3	5.11		
PCB-47	188	5.11		
PCB-48/75	31.6	10.2		
PCB-50	3.98	5.11		J
PCB-51	33.8	5.11		
PCB-52/69	328	10.2		
PCB-53	114	5.11		
PCB-54	7.15	5.11		
PCB-55	3.57	5.11		J
PCB-56/60	74.0	10.2		
PCB-57	3.48	5.11		J
PCB-58	ND	5.11	1.06	UM
PCB-61/70	133	10.2		
PCB-62	ND	5.11	0.612	U
PCB-63	13.8	5.11		
PCB-65	ND	5.11	0.647	U
PCB-66/76	130	10.2		
PCB-67	7.45	5.11		
PCB-68	6.10	5.11		
PCB-73	ND	5.11	4.42	UM
PCB-74	65.7	5.11		
PCB-77	20.2	5.11		
PCB-78	ND	5.11	0.474	U
PCB-79	ND	5.11	2.08	UM
PCB-80	ND	5.11	0.427	U
PCB-81	ND	5.11	0.442	U
PCB-82	11.0	5.11		
PCB-83	ND	5.11	0.544	U
PCB-84/92	78.3	10.2		
PCB-85/116	17.4	10.2		
PCB-86	ND	5.11	0.929	U
PCB-87/117/125	30.8	15.3		
PCB-88/91	41.5	5.11		

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-LHPO-T170531110915

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 26-May-2017 12:15

Sample Data
Matrix: Water
Sample Size: 0.979 L

Laboratory Data
Lab Sample: 1700918-04 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 20:44 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	2.17	5.11		J
PCB-90/101	112	10.2		
PCB-93	ND	5.11	0.884	U
PCB-94	5.04	5.11		J
PCB-95/98/102	140	15.3		
PCB-96	4.63	5.11		J
PCB-97	31.2	5.11		
PCB-99	65.6	5.11		
PCB-100	3.93	5.11		J
PCB-103	5.07	5.11		J
PCB-104	ND	5.11	0.604	U
PCB-105	30.0	5.11		
PCB-106/118	79.8	10.2		
PCB-107/109	9.21	10.2		J
PCB-108/112	11.0	10.2		
PCB-110	128	5.11		
PCB-111/115	1.55	10.2		J
PCB-113	1.43	5.11		J
PCB-114	ND	5.11	1.88	UM
PCB-119	6.10	5.11		
PCB-120	1.26	5.11		J
PCB-121	ND	5.11	0.551	U
PCB-122	ND	5.11	0.763	U
PCB-123	1.84	5.11		J
PCB-124	2.76	5.11		J
PCB-126	ND	5.11	0.762	U
PCB-127	ND	5.11	0.745	U
PCB-128/162	10.6	10.2		
PCB-129	ND	5.11	1.99	UM
PCB-130	6.69	5.11		
PCB-131/133	3.89	10.2		J
PCB-132/161	19.9	10.2		
PCB-134/143	5.96	10.2		J
PCB-135	15.0	5.11		
PCB-136	13.2	5.11		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-137	2.91	5.11		J
PCB-138/163/164	71.3	15.3		
PCB-139/149	68.6	10.2		
PCB-140	ND	5.11	0.943	U
PCB-141	8.60	5.11		
PCB-142	ND	5.11	0.678	U
PCB-144	ND	5.11	1.50	UM
PCB-145	ND	5.11	0.703	U
PCB-146/165	14.4	10.2		
PCB-147	5.15	5.11		
PCB-148	ND	5.11	0.926	U
PCB-150	ND	5.11	0.688	U
PCB-151	21.0	5.11		
PCB-152	ND	5.11	0.677	U
PCB-153	63.6	5.11		
PCB-154	ND	5.11	2.79	UM
PCB-155	ND	5.11	0.643	U
PCB-156	5.78	5.11		
PCB-157	1.42	5.11		J
PCB-158/160	6.30	10.2		J
PCB-159	0.602	5.11		J
PCB-166	ND	5.11	0.436	U
PCB-167	2.70	5.11		J
PCB-168	ND	5.11	0.424	U
PCB-169	ND	5.11	0.447	U
PCB-170	9.62	5.11		
PCB-171	2.88	5.11		J
PCB-172	2.09	5.11		J
PCB-173	ND	5.11	0.435	U
PCB-174	10.8	5.11		
PCB-175	0.630	5.11		J
PCB-176	1.32	5.11		J
PCB-177	7.15	5.11		
PCB-178	4.89	5.11		J
PCB-179	7.28	5.11		

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-LHPO-T170531110915

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 26-May-2017 12:15

Sample Data
Matrix: Water
Sample Size: 0.979 L

Laboratory Data
Lab Sample: 1700918-04 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 20:44 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	22.3	5.11		
PCB-181	ND	5.11	0.363	U
PCB-182/187	20.2	10.2		
PCB-183	6.45	5.11		
PCB-184	ND	5.11	0.321	U
PCB-185	1.40	5.11		J
PCB-186	ND	5.11	0.295	U
PCB-188	ND	5.11	0.294	U
PCB-189	0.478	5.11		J
PCB-190	1.67	5.11		J
PCB-191	ND	5.11	0.267	U
PCB-192	ND	5.11	0.285	U
PCB-193	1.20	5.11		J
PCB-194	6.11	5.11		
PCB-195	1.67	5.11		J
PCB-196/203	9.14	10.2		J
PCB-197	ND	5.11	0.696	U
PCB-198	ND	5.11	1.01	U
PCB-199	12.6	5.11		
PCB-200	1.23	5.11		J
PCB-201	1.26	5.11		J
PCB-202	ND	5.11	2.90	UM
PCB-204	ND	5.11	0.780	U
PCB-205	ND	5.11	0.777	UM
PCB-206	8.92	5.11		
PCB-207	ND	5.11	0.745	UM
PCB-208	3.57	5.11		J
PCB-209	6.05	5.11		
Total monoCB	179			
Total diCB	1970			
Total triCB	3320			
Total tetraCB	2170			
Total pentaCB	822			
Total hexaCB	348			
Total heptaCB	100			

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	32.1			
Total nonaCB	12.5			
DecaCB	6.05			
Total PCB	8960			

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-LHPO-T170531110915

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 26-May-2017 12:15

Sample Data
Matrix: Water
Sample Size: 0.979 L

Laboratory Data
Lab Sample: 1700918-04 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 20:44 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	44.5	5 -145	
	13C-PCB-3	48.9	5 -145	
	13C-PCB-4	60.6	5 -145	
	13C-PCB-11	69.6	5 -145	
	13C-PCB-9	61.2	5 -145	
	13C-PCB-19	56.8	5 -145	
	13C-PCB-28	68.4	5 -145	
	13C-PCB-32	64.7	5 -145	
	13C-PCB-37	91.2	5 -145	
	13C-PCB-47	80.6	5 -145	
	13C-PCB-52	76.0	5 -145	
	13C-PCB-54	60.9	5 -145	
	13C-PCB-70	86.3	5 -145	
	13C-PCB-77	95.5	10 -145	
	13C-PCB-80	90.4	10 -145	
	13C-PCB-81	92.8	10 -145	
	13C-PCB-95	82.6	10 -145	
	13C-PCB-97	91.0	10 -145	
	13C-PCB-101	89.1	10 -145	
	13C-PCB-104	77.5	10 -145	
	13C-PCB-105	69.0	10 -145	
	13C-PCB-114	70.1	10 -145	
	13C-PCB-118	95.0	10 -145	
	13C-PCB-123	96.6	10 -145	
	13C-PCB-126	71.7	10 -145	
	13C-PCB-127	73.1	10 -145	
	13C-PCB-138	93.1	10 -145	
	13C-PCB-141	90.1	10 -145	
	13C-PCB-153	91.2	10 -145	
	13C-PCB-155	102	10 -145	
	13C-PCB-156	95.4	10 -145	
	13C-PCB-157	97.5	10 -145	
	13C-PCB-159	94.9	10 -145	
	13C-PCB-167	95.8	10 -145	
	13C-PCB-169	98.2	10 -145	

	Labeled Standard	%R	LCL-UCL	Qualifiers
	13C-PCB-170	104	10 -145	
	13C-PCB-180	102	10 -145	
	13C-PCB-188	91.5	10 -145	
	13C-PCB-189	104	10 -145	
	13C-PCB-194	99.9	10 -145	
	13C-PCB-202	98.3	10 -145	
	13C-PCB-206	125	10 -145	
	13C-PCB-208	125	10 -145	
	13C-PCB-209	157	10 -145	H
CRS	13C-PCB-79	101	10 -145	
	13C-PCB-178	103	10 -145	

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Client ID: OWS-LHPO-T170531110915 Filename: 170731E1 S:8 Acq:31-JUL-17 20:44:26 ConCal: ST170731E1-1
Lab ID: 1700918-04 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.979 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	3.67e+06	2.98	y 16:02	1.36	141		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	1.80e+05	3.29	y 18:27	1.30	5.87		*	2.5	*	0.988	0.983-0.993
Mono	PCB-3	1.02e+06	2.92	y 18:41	1.33	32.7		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	3.17e+07	1.61	y 20:03	1.32	1200		*	2.5	*	1.002	0.997-1.007
Di	PCB-7/9	*	*	n NotF¶	1.00	*		6780	2.5	4.66	*	0.864-0.871
Di	PCB-6	3.07e+06	1.55	y 22:31	0.99	93.4		*	2.5	*	0.893	0.888-0.897
Di	PCB-5/8	7.76e+06	1.63	y 22:54	1.03	225		*	2.5	*	0.908	0.905-0.915
Di	PCB-14	*	*	n NotF¶	1.16	*		6780	2.5	3.58	*	0.948-0.958
Di	PCB-11	9.33e+05	1.34	y 25:14	1.03	22.9		*	2.5	*	1.001	0.996-1.006
Di	PCB-12/13	2.60e+06	1.68	y 25:35	1.03	63.7		*	2.5	*	1.015	1.011-1.021
Di	PCB-15	1.70e+07	1.54	y 25:56	1.17	368		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	9.74e+06	1.02	y 24:12	1.52	454		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n NotF¶	2.51	*		1200	2.5	0.657	*	1.033-1.043
Tri	PCB-18	1.73e+07	1.02	y 25:51	1.11	629		*	2.5	*	0.953	0.949-0.959
Tri	PCB-17	1.29e+07	1.05	y 26:02	1.21	429		*	2.5	*	0.960	0.955-0.965
Tri	PCB-24/27	9.10e+06	1.01	y 26:36	1.61	227		*	2.5	*	0.981	0.976-0.986
Tri	PCB-16/32	1.44e+07	1.04	y 27:08	1.35	428		*	2.5	*	1.001	0.995-1.005
Tri	PCB-34	7.40e+04	0.97	y 27:55	0.98	5.43		*	2.5	*	0.960	0.955-0.965
Tri	PCB-23	*	*	n NotF¶	0.93	*		1290	2.5	2.10	*	0.958-0.968
Tri	PCB-29	*	*	n NotF¶	0.97	*		1290	2.5	2.01	*	0.967-0.977
Tri	PCB-26	2.00e+06	0.89	y 28:28	0.96	149		*	2.5	*	0.979	0.975-0.985
Tri	PCB-25	8.52e+05	0.92	y 28:39	0.87	70.1		*	2.5	*	0.985	0.980-0.990
Tri	PCB-31	5.47e+06	0.92	y 28:59	1.00	393		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	4.34e+06	0.89	y 29:06	0.93	333		*	2.5	*	1.001	0.995-1.005
Tri	PCB-20/21/33	7.64e+05	1.05	y 29:45	0.89	61.9		*	2.5	*	1.023	1.017-1.027
Tri	PCB-22	6.97e+05	0.95	y 30:10	0.93	53.8		*	2.5	*	1.037	1.032-1.042
Tri	PCB-36	*	*	n NotF¶	0.94	*		1290	2.5	1.82	*	0.929-0.939
Tri	PCB-39	*	*	n NotF¶	1.01	*		1290	2.5	1.70	*	0.943-0.953
Tri	PCB-38	2.33e+05	1.22	n 32:01	0.90	14.6		*	2.5	*	0.971	0.966-0.976
Tri	PCB-35	6.61e+04	1.09	y 32:33	0.89	4.18		*	2.5	*	0.987	0.982-0.992
Tri	PCB-37	1.45e+06	0.93	y 32:59	1.03	79.3		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-54	2.24e+05	0.83	y 27:58	1.17	7.15		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-50	9.97e+04	0.76	y 29:08	0.94	3.98		*	2.5	*	1.042	1.038-1.048
Tetra	PCB-53	3.58e+06	0.77	y 29:47	1.19	114		*	2.5	*	0.946	0.941-0.951
Tetra	PCB-51	1.12e+06	0.75	y 30:07	1.25	33.8		*	2.5	*	0.956	0.952-0.962
Tetra	PCB-45	1.58e+06	0.75	y 30:33	1.08	55.3		*	2.5	*	0.970	0.966-0.976
Tetra	PCB-46	8.89e+05	0.68	y 31:03	1.01	33.3		*	2.5	*	0.986	0.981-0.991

Integrations by:
Analyst: DB
Date: 8/4/17

Reviewed by: [illegible] Date: 8/6/17

Client ID: OWS-LHPO-T170531110915 Filename: 170731E1 S:8 Acq:31-JUL-17 20:44:26 ConCal: ST170731E1-1

Lab ID: 1700918-04 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.979 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	1.20e+07	0.77	y	31:31	1.39	328		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-73	1.76e+05	1.06	n	31:39	1.51	4.42		*	2.5	*	1.005	1.000-1.010
Tetra	PCB-43/49	1.20e+07	0.77	y	31:50	1.20	380		*	2.5	*	1.011	1.005-1.015
Tetra	PCB-47	6.75e+06	0.74	y	32:01	1.19	188		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-48/75	1.32e+06	0.77	y	32:09	1.39	31.6		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n	NotF	1.31	*		1230	2.5	0.647	*	1.007-1.017
Tetra	PCB-62	*	*	n	NotF	1.38	*		1230	2.5	0.612	*	1.011-1.021
Tetra	PCB-44	5.17e+06	0.75	y	32:49	0.96	179		*	2.5	*	1.025	1.020-1.030
Tetra	PCB-42/59	3.16e+06	0.77	y	33:02	1.32	79.0		*	2.5	*	1.032	1.027-1.037
Tetra	PCB-41/64/71/72	9.77e+06	0.74	y	33:38	1.38	235		*	2.5	*	1.050	1.046-1.056
Tetra	PCB-68	3.00e+05	0.74	y	33:53	1.63	6.10		*	2.5	*	1.058	1.054-1.064
Tetra	PCB-40	1.30e+06	0.76	y	34:06	0.91	47.2		*	2.5	*	1.065	1.061-1.071
Tetra	PCB-57	1.72e+05	0.75	y	34:28	1.23	3.48		*	2.5	*	0.970	0.965-0.975
Tetra	PCB-67	3.63e+05	0.69	y	34:47	1.21	7.45		*	2.5	*	0.979	0.974-0.984
Tetra	PCB-58	5.43e+04	0.96	n	34:53	1.28	1.06		*	2.5	*	0.982	0.977-0.987
Tetra	PCB-63	7.25e+05	0.79	y	35:03	1.30	13.8		*	2.5	*	0.986	0.981-0.991
Tetra	PCB-74	3.46e+06	0.80	y	35:20	1.31	65.7		*	2.5	*	0.994	0.990-1.000
Tetra	PCB-61/70	6.61e+06	0.75	y	35:32	1.23	133		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	6.73e+06	0.77	y	35:45	1.29	130		*	2.5	*	1.006	1.000-1.010
Tetra	PCB-80	*	*	n	NotF	1.49	*		1230	2.5	0.427	*	0.996-1.006
Tetra	PCB-55	2.08e+05	0.75	y	36:14	1.36	3.57		*	2.5	*	1.008	1.004-1.014
Tetra	PCB-56/60	3.97e+06	0.74	y	36:46	1.25	74.0		*	2.5	*	1.023	1.018-1.028
Tetra	PCB-79	1.20e+05	0.97	n	37:51	1.34	2.08		*	2.5	*	1.053	1.048-1.058
Tetra	PCB-78	*	*	n	NotF	1.29	*		1230	2.5	0.474	*	0.982-0.992
Tetra	PCB-81	*	*	n	NotF	1.38	*		1230	2.5	0.442	*	0.995-1.005
Tetra	PCB-77	1.24e+06	0.85	y	39:39	1.42	20.2		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	*	*	n	NotF	1.47	*		960	2.5	0.604	*	0.996-1.006
Penta	PCB-96	1.95e+05	1.64	y	33:56	1.29	4.63		*	2.5	*	1.039	1.034-1.044
Penta	PCB-103	1.96e+05	1.52	y	34:29	1.19	5.07		*	2.5	*	1.056	1.051-1.061
Penta	PCB-100	1.51e+05	1.74	y	34:50	1.18	3.93		*	2.5	*	1.067	1.061-1.071
Penta	PCB-94	1.75e+05	1.47	y	35:19	1.25	5.04		*	2.5	*	0.986	0.981-0.991
Penta	PCB-95/98/102	5.46e+06	1.60	y	35:50	1.40	140		*	2.5	*	1.000	0.994-1.004
Penta	PCB-93	*	*	n	NotF	1.18	*		960	2.5	0.884	*	0.998-1.008
Penta	PCB-88/91	1.52e+06	1.42	y	36:14	1.32	41.5		*	2.5	*	1.012	1.006-1.016
Penta	PCB-121	*	*	n	NotF	1.89	*		960	2.5	0.551	*	1.009-1.019
Penta	PCB-84/92	3.05e+06	1.59	y	37:09	1.30	78.3		*	2.5	*	0.991	0.985-0.995
Penta	PCB-89	7.97e+04	1.32	y	37:20	1.23	2.17		*	2.5	*	0.996	0.990-1.000

Analyst: DB

Date: 8/4/17

Client ID: OWS-LHPO-T170531110915 Filename: 170731E1 S:8 Acq:31-JUL-17 20:44:26 ConCal: ST170731E1-1

Lab ID: 1700918-04 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.979 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	4.93e+06	1.53	y 37:32	1.47	112		*	2.5	*	1.001	0.995-1.005
Penta	PCB-113	7.09e+04	1.41	y 37:45	1.65	1.43		*	2.5	*	1.007	1.001-1.011
Penta	PCB-99	2.91e+06	1.56	y 37:51	1.48	65.6		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	3.65e+05	1.54	y 38:19	2.25	6.10		*	2.5	*	0.987	0.982-0.992
Penta	PCB-108/112	5.01e+05	1.32	y 38:28	1.71	11.0		*	2.5	*	0.991	0.986-0.996
Penta	PCB-83	*	*	n NotF¶	2.05	*		960	2.5	0.544	*	0.990-1.000
Penta	PCB-97	1.29e+06	1.58	y 38:50	1.56	31.2		*	2.5	*	1.000	0.995-1.005
Penta	PCB-86	*	*	n NotF¶	1.20	*		960	2.5	0.929	*	0.999-1.009
Penta	PCB-87/117/125	1.56e+06	1.58	y 39:06	1.91	30.8		*	2.5	*	1.007	1.002-1.012
Penta	PCB-111/115	9.23e+04	1.34	y 39:15	2.24	1.55		*	2.5	*	1.011	1.006-1.016
Penta	PCB-85/116	7.66e+05	1.38	y 39:22	1.66	17.4		*	2.5	*	1.014	1.010-1.020
Penta	PCB-120	8.13e+04	1.63	y 39:37	2.43	1.26		*	2.5	*	1.021	1.016-1.026
Penta	PCB-110	6.73e+06	1.62	y 39:46	1.98	128		*	2.5	*	1.024	1.019-1.029
Penta	PCB-82	3.77e+05	1.48	y 40:23	0.91	11.0		*	2.5	*	0.976	0.971-0.981
Penta	PCB-124	1.66e+05	1.64	y 41:04	1.59	2.76		*	2.5	*	0.993	0.988-0.998
Penta	PCB-107/109	5.51e+05	1.60	y 41:13	1.58	9.21		*	2.5	*	0.996	0.991-1.001
Penta	PCB-123	1.10e+05	1.36	y 41:23	1.58	1.84		*	2.5	*	1.000	0.996-1.006
Penta	PCB-106/118	4.93e+06	1.55	y 41:34	1.57	79.8		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	7.20e+04	1.19	n 42:11	1.18	1.88		*	2.5	*	1.000	0.995-1.005
Penta	PCB-122	*	*	n NotF¶	1.07	*		879	2.5	0.763	*	0.999-1.009
Penta	PCB-105	1.17e+06	1.77	y 43:05	1.23	30.0		*	2.5	*	1.000	0.995-1.005
Penta	PCB-127	*	*	n NotF¶	1.03	*		879	2.5	0.745	*	0.995-1.005
Penta	PCB-126	*	*	n NotF¶	1.12	*		879	2.5	0.762	*	0.995-1.005
Hexa	PCB-155	*	*	n NotF¶	1.31	*		1030	2.5	0.643	*	0.966-1.006
Hexa	PCB-150	*	*	n NotF¶	1.22	*		1030	2.5	0.688	*	1.030-1.040
Hexa	PCB-152	*	*	n NotF¶	1.24	*		1030	2.5	0.677	*	1.042-1.052
Hexa	PCB-145	*	*	n NotF¶	1.20	*		1030	2.5	0.703	*	1.054-1.064
Hexa	PCB-136	5.48e+05	1.12	y 39:34	1.28	13.2		*	2.5	*	1.068	1.063-1.073
Hexa	PCB-148	*	*	n NotF¶	0.91	*		1030	2.5	0.926	*	1.066-1.076
Hexa	PCB-154	9.02e+04	0.97	n 40:11	1.00	2.79		*	2.5	*	1.085	1.079-1.089
Hexa	PCB-151	6.22e+05	1.20	y 40:48	0.92	21.0		*	2.5	*	1.101	1.097-1.107
Hexa	PCB-135	4.29e+05	1.23	y 41:02	0.88	15.0		*	2.5	*	1.108	1.101-1.113
Hexa	PCB-144	4.78e+04	1.72	n 41:09	0.98	1.50		*	2.5	*	1.111	1.105-1.116
Hexa	PCB-147	1.44e+05	1.10	y 41:15	0.87	5.15		*	2.5	*	1.113	1.108-1.120
Hexa	PCB-139/149	2.18e+06	1.21	y 41:30	0.98	68.6		*	2.5	*	1.120	1.115-1.127
Hexa	PCB-140	*	*	n NotF¶	0.89	*		1030	2.5	0.943	*	1.120-1.132
Hexa	PCB-134/143	2.65e+05	1.27	y 42:09	0.95	5.96		*	2.5	*	0.975	0.970-0.980

Analyst: DB

Date: 8/4/17

Client ID: OWS-LHPO-T170531110915 Filename: 170731E1 S:8 Acq:31-JUL-17 20:44:26 ConCal: ST170731E1-1

Lab ID: 1700918-04 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.979 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-131/133	1.72e+05	1.14	y 42:26	0.94	3.89		*	2.5	*	0.981	0.977-0.987
Hexa	PCB-142	*	*	n NotF¶	0.91	*		1070	2.5	0.678	*	0.981-0.991
Hexa	PCB-146/165	7.93e+05	1.25	y 42:51	1.18	14.4		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	1.10e+06	1.32	y 43:06	1.17	19.9		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	3.60e+06	1.27	y 43:15	1.21	63.6		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-168	*	*	n NotF¶	1.46	*		1070	2.5	0.424	*	1.000-1.010
Hexa	PCB-141	4.34e+05	1.07	y 43:59	1.30	8.60		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-137	1.50e+05	1.24	y 44:21	1.32	2.91		*	2.5	*	1.009	1.004-1.014
Hexa	PCB-130	2.78e+05	1.23	y 44:28	1.07	6.69		*	2.5	*	1.011	1.007-1.017
Hexa	PCB-138/163/164	4.27e+06	1.30	y 44:50	1.43	71.3		*	2.5	*	1.001	0.996-1.006
Hexa	PCB-158/160	4.15e+05	1.41	y 45:04	1.57	6.30		*	2.5	*	1.006	1.001-1.011
Hexa	PCB-129	8.77e+04	0.87	n 45:19	1.05	1.99		*	2.5	*	1.012	1.007-1.017
Hexa	PCB-166	*	*	n NotF¶	1.31	*		1070	2.5	0.436	*	0.988-0.998
Hexa	PCB-159	4.41e+04	1.31	y 46:10	1.42	0.602		*	2.5	*	1.002	0.995-1.005
Hexa	PCB-128/162	6.26e+05	1.23	y 46:21	1.15	10.6		*	2.5	*	1.006	1.002-1.012
Hexa	PCB-167	1.88e+05	1.08	y 46:47	1.32	2.70		*	2.5	*	1.001	0.995-1.005
Hexa	PCB-156	4.16e+05	1.36	y 48:04	1.38	5.78		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-157	1.04e+05	1.21	y 48:19	1.38	1.42		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-169	*	*	n NotF¶	1.27	*		1070	2.5	0.447	*	0.995-1.005
Hepta	PCB-188	*	*	n NotF¶	1.78	*		962	2.5	0.294	*	0.996-1.006
Hepta	PCB-184	*	*	n NotF¶	1.63	*		962	2.5	0.321	*	1.006-1.016
Hepta	PCB-179	3.91e+05	1.02	y 44:06	1.63	7.28		*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	7.68e+04	1.10	y 44:34	1.77	1.32		*	2.5	*	1.040	1.035-1.045
Hepta	PCB-186	*	*	n NotF¶	1.77	*		962	2.5	0.295	*	1.049-1.059
Hepta	PCB-178	2.06e+05	0.94	y 45:39	1.28	4.89		*	2.5	*	1.065	1.061-1.071
Hepta	PCB-175	2.71e+04	0.99	y 46:00	1.30	0.630		962	2.5	0.402	1.074	1.069-1.079
Hepta	PCB-182/187	9.38e+05	1.05	y 46:10	1.41	20.2		*	2.5	*	1.077	1.073-1.083
Hepta	PCB-183	3.22e+05	1.02	y 46:29	1.51	6.45		*	2.5	*	1.085	1.080-1.090
Hepta	PCB-185	6.54e+04	1.04	y 47:08	1.78	1.40		*	2.5	*	0.955	0.951-0.961
Hepta	PCB-174	4.83e+05	0.99	y 47:30	1.70	10.8		*	2.5	*	0.963	0.958-0.968
Hepta	PCB-181	*	*	n NotF¶	1.80	*		962	2.5	0.363	*	0.960-0.970
Hepta	PCB-177	2.97e+05	0.89	y 47:47	1.59	7.15		*	2.5	*	0.969	0.964-0.974
Hepta	PCB-171	1.39e+05	1.06	y 48:04	1.84	2.88		*	2.5	*	0.974	0.969-0.979
Hepta	PCB-173	*	*	n NotF¶	1.50	*		962	2.5	0.435	*	0.978-0.988
Hepta	PCB-172	9.71e+04	0.97	y 48:56	1.77	2.09		*	2.5	*	0.992	0.987-0.997
Hepta	PCB-192	*	*	n NotF¶	2.29	*		962	2.5	0.285	*	0.991-1.001
Hepta	PCB-180	1.07e+06	1.06	y 49:20	1.82	22.3		*	2.5	*	1.000	0.995-1.005

Analyst: DB

Date: 8/4/17

Client ID: OWS-LHPO-T170531110915 Filename: 170731E1 S:8 Acq:31-JUL-17 20:44:26 ConCal: ST170731E1-1
Lab ID: 1700918-04 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.979 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hepta	PCB-193	7.49e+04	1.15	y	49:33	2.38	1.20		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-191	*	*	n	NotF¶	2.44	*		962	2.5	0.267	*	1.005-1.015
Hepta	PCB-170	4.33e+05	1.09	y	50:56	1.96	9.62		*	2.5	*	1.000	0.995-1.005
Hepta	PCB-190	1.05e+05	1.08	y	51:07	2.72	1.67		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-189	3.01e+04	1.19	y	52:32	1.97	0.478		*	2.5	*	1.000	0.995-1.005
Octa	PCB-202	9.28e+04	1.31	n	48:16	1.29	2.90		*	2.5	*	1.000	0.995-1.005
Octa	PCB-201	4.37e+04	0.83	y	48:46	1.40	1.26		*	2.5	*	1.010	1.005-1.015
Octa	PCB-204	*	*	n	NotF¶	1.32	*		1140	2.5	0.780	*	1.009-1.019
Octa	PCB-197	*	*	n	NotF¶	1.48	*		1140	2.5	0.696	*	1.015-1.025
Octa	PCB-200	4.21e+04	0.93	y	50:08	1.38	1.23		*	2.5	*	1.039	1.034-1.044
Octa	PCB-198	*	*	n	NotF¶	1.02	*		1140	2.5	1.01	*	1.063-1.073
Octa	PCB-199	2.93e+05	0.83	y	51:41	0.94	12.6		*	2.5	*	1.071	1.065-1.075
Octa	PCB-196/203	2.41e+05	0.96	y	51:59	1.07	9.14		*	2.5	*	1.077	1.071-1.081
Octa	PCB-195	3.50e+04	0.80	y	53:13	1.01	1.67		*	2.5	*	0.984	0.979-0.989
Octa	PCB-194	1.40e+05	0.94	y	54:05	1.11	6.11		*	2.5	*	1.000	0.995-1.005
Octa	PCB-205	2.30e+04	1.32	n	54:21	1.43	0.777		*	2.5	*	1.005	1.000-1.010
Nona	PCB-208	1.73e+05	1.15	y	53:21	1.16	3.57		*	2.5	*	1.000	0.995-1.005
Nona	PCB-207	3.68e+04	1.62	n	53:41	1.18	0.745		*	2.5	*	1.006	1.001-1.011
Nona	PCB-206	2.80e+05	1.29	y	55:39	0.98	8.92		*	2.5	*	1.000	0.995-1.005
Deca	PCB-209	3.33e+05	1.27	y	56:58	1.56	6.05		*	2.5	*	1.000	0.995-1.005

Analyst: DB

Date: 8/4/17

Client ID: OWS-LHPO-T170531110915 Filename: 170731E1 S:8 Acq:31-JUL-17 20:44:26 ConCal: ST170731E1-1
Lab ID: 1700918-04 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.9793 EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	4.87e+06	2.98 y	16:02	1.33	179.254	
Total Di-PCB	6.37e+07	1.61 y	20:03	1.05	~~1991.80~~	1970 [illegible] 8/11/17
Total Tri-PCB	6.34e+07	1.02 y	24:12	1.54	2166.91	
Total Tri-PCB	1.57e+07	0.97 y	27:55	0.94	1150.14	Sum:3317.04
Total Tetra-PCB	8.28e+07	0.83 y	27:58	1.25	2171.72	
Total Penta-PCB	3.63e+07	1.64 y	33:56	1.47	792.148	
Total Penta-PCB	1.17e+06	1.77 y	43:05	1.13	29.9681	Sum:822.116
Total Hexa-PCB	3.92e+06	1.12 y	39:34	1.05	122.946	
Total Hexa-PCB	1.29e+07	1.27 y	42:09	1.23	224.667	Sum:347.613
Total Hepta-PCB	4.75e+06	1.02 y	44:06	1.72	100.397	
Total Octa-PCB	6.20e+05	0.83 y	48:46	1.22	24.2749	
Total Octa-PCB	1.75e+05	0.80 y	53:13	1.18	7.78020	Sum:32.0551
Total Nona-PCB	4.53e+05	1.15 y	53:21	1.12	12.4942	
Total Deca-PCB	3.33e+05	1.27 y	56:58	1.56	6.05451	

Total PCB Conc:8996.73602200

Integrations by Analyst: DB

Date: 8/4/17

Client ID: OWS-LHPO-T170531110915 Filename: 170731E1 S:8 Acq:31-JUL-17 20:44:26 ConCal: ST170731E1-1

Lab ID: 1700918-04 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:0.9793 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	3.91e+07	3.11 y	0.70	16:01	0.618	0.617	0.623	909	44.5
13C-PCB-3	4.80e+07	3.07 y	0.79	18:40	0.720	0.717	0.725	998	48.9
13C-PCB-4	4.08e+07	1.57 y	0.54	20:01	0.772	0.769	0.777	1240	60.6
13C-PCB-9	6.81e+07	1.57 y	0.89	21:49	0.842	0.838	0.846	1250	61.2
13C-PCB-11	8.10e+07	1.56 y	0.93	25:13	0.973	0.968	0.978	1420	69.6
13C-PCB-19	2.89e+07	1.04 y	0.41	24:11	0.933	0.928	0.938	1160	56.8
13C-PCB-28	2.85e+07	1.00 y	1.04	29:05	1.003	0.999	1.009	1400	68.4
13C-PCB-32	5.08e+07	1.02 y	0.63	27:07	1.046	1.041	1.051	1320	64.7
13C-PCB-37	3.63e+07	1.00 y	1.00	32:58	1.137	1.132	1.144	1860	91.2
13C-PCB-47	6.16e+07	0.79 y	0.80	32:01	0.871	0.867	0.875	1650	80.6
13C-PCB-52	5.41e+07	0.80 y	0.74	31:30	0.857	0.853	0.861	1550	76.0
13C-PCB-54	5.46e+07	0.81 y	0.94	27:57	0.760	0.757	0.765	1240	60.9
13C-PCB-70	8.21e+07	0.80 y	0.99	35:32	0.966	0.961	0.971	1760	86.3
13C-PCB-77	8.87e+07	0.80 y	0.97	39:39	1.078	1.073	1.083	1950	95.5
13C-PCB-80	8.74e+07	0.82 y	1.01	35:57	0.978	0.973	0.983	1850	90.4
13C-PCB-81	9.00e+07	0.81 y	1.01	39:03	1.062	1.057	1.067	1890	92.8
13C-PCB-95	5.67e+07	1.59 y	0.80	35:49	0.913	0.908	0.918	1690	82.6
13C-PCB-97	5.42e+07	1.60 y	0.70	38:49	0.989	0.984	0.994	1860	91.0
13C-PCB-101	6.12e+07	1.57 y	0.81	37:30	0.955	0.951	0.961	1820	89.1
13C-PCB-104	6.65e+07	1.57 y	1.01	32:39	0.832	0.828	0.836	1580	77.5
13C-PCB-105	6.48e+07	1.56 y	1.18	43:04	0.929	0.924	0.934	1410	69.0
13C-PCB-114	6.62e+07	1.54 y	1.18	42:12	0.910	0.905	0.915	1430	70.1
13C-PCB-118	8.04e+07	1.60 y	0.99	41:33	1.059	1.054	1.064	1940	95.0
13C-PCB-123	7.71e+07	1.58 y	0.94	41:22	1.054	1.049	1.059	1970	96.6
13C-PCB-126	6.67e+07	1.54 y	1.17	45:17	0.977	0.972	0.982	1470	71.7
13C-PCB-127	7.35e+07	1.55 y	1.26	43:24	0.936	0.931	0.941	1490	73.1
13C-PCB-138	8.57e+07	1.29 y	1.15	44:48	0.967	0.961	0.971	1900	93.1
13C-PCB-141	7.94e+07	1.28 y	1.11	43:58	0.949	0.943	0.953	1840	90.1
13C-PCB-153	9.57e+07	1.28 y	1.32	43:14	0.933	0.927	0.937	1860	91.2
13C-PCB-155	6.62e+07	1.27 y	0.76	37:03	0.944	0.939	0.949	2080	102
13C-PCB-156	1.07e+08	1.28 y	1.40	48:03	1.037	1.032	1.042	1950	95.4
13C-PCB-157	1.08e+08	1.29 y	1.40	48:19	1.042	1.038	1.048	1990	97.5
13C-PCB-159	1.05e+08	1.27 y	1.39	46:05	0.994	0.989	0.999	1940	94.9
13C-PCB-167	1.07e+08	1.26 y	1.41	46:45	1.009	1.004	1.014	1960	95.8
13C-PCB-169	1.08e+08	1.28 y	1.38	50:31	1.090	1.085	1.095	2010	98.2
13C-PCB-170	4.70e+07	0.46 y	0.83	50:55	1.102	1.093	1.103	2120	104
13C-PCB-180	5.36e+07	0.47 y	0.96	49:20	1.068	1.059	1.069	2090	102
13C-PCB-188	6.74e+07	0.48 y	1.36	42:51	0.928	0.919	0.929	1870	91.5
13C-PCB-189	6.55e+07	0.46 y	1.16	52:32	1.137	1.125	1.137	2120	104
13C-PCB-194	4.22e+07	0.86 y	0.74	54:05	0.995	0.990	1.000	2040	99.9
13C-PCB-202	5.05e+07	0.88 y	0.95	48:16	1.045	1.036	1.046	2010	98.3
13C-PCB-206	6.52e+07	0.75 y	0.91	55:38	1.024	1.019	1.029	2550	125
13C-PCB-208	8.56e+07	0.76 y	1.19	53:21	0.982	0.977	0.987	2560	125
13C-PCB-209	7.19e+07	1.22 y	0.80	56:57	1.048	1.044	1.054	3200	157

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	9.92e+07	0.79 y	1.02	37:50	1.029	1.024	1.033	2070	101
13C-PCB-178	5.05e+07	0.45 y	0.90	45:38	0.985	0.980	0.989	2100	103

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	9.92e+07	0.79 y	1.01	37:50	0.969	0.963	0.973	2230	109
13C-PCB-178	5.05e+07	0.45 y	0.94	45:38	0.925	0.920	0.930	2050	101

RS

Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	1.25e+08	1.55 y	1.00	25:55	2040
13C-PCB-31	3.98e+07	1.01 y	1.00	28:59	2040
13C-PCB-60	9.57e+07	0.80 y	1.00	36:46	2040
13C-PCB-111	8.53e+07	1.58 y	1.00	39:15	2040
13C-PCB-128	7.97e+07	1.26 y	1.00	46:21	2040
13C-PCB-182	5.43e+07	0.47 y	1.00	46:11	2040
13C-PCB-205	5.75e+07	0.88 y	1.00	54:21	2040

Analyst: DB

Date: 8/11/17

Sample ID: OWS-ROIS-T170524113548

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:58

Sample Data
Matrix: Water
Sample Size: 0.948 L

Laboratory Data
Lab Sample: 1700918-05 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 21:49 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	1.16	5.27		J
PCB-2	ND	5.27	0.833	U
PCB-3	ND	5.27	0.819	U
PCB-4/10	112	10.5		
PCB-5/8	ND	10.5	1.58	U
PCB-6	ND	5.27	1.65	U
PCB-7/9	ND	10.5	1.63	U
PCB-11	8.43	5.27		
PCB-12/13	ND	10.5	1.44	U
PCB-14	ND	5.27	1.27	U
PCB-15	13.7	5.27		
PCB-16/32	48.3	10.5		
PCB-17	19.0	5.27		
PCB-18	49.8	5.27		
PCB-19	52.6	5.27		
PCB-20/21/33	ND	15.8	1.72	U
PCB-22	3.80	5.27		J
PCB-23	ND	5.27	1.63	U
PCB-24/27	16.9	10.5		
PCB-25	ND	5.27	1.75	U
PCB-26	ND	5.27	3.35	UM
PCB-28	20.2	5.27		
PCB-29	ND	5.27	1.57	U
PCB-30	ND	5.27	0.567	U
PCB-31	10.5	5.27		
PCB-34	ND	5.27	1.56	U
PCB-35	ND	5.27	1.69	U
PCB-36	ND	5.27	1.61	U
PCB-37	5.48	5.27		
PCB-38	ND	5.27	1.67	U
PCB-39	ND	5.27	1.50	U
PCB-40	6.35	5.27		
PCB-41/64/71/72	36.3	21.1		
PCB-42/59	16.0	10.5		
PCB-43/49	35.7	10.5		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-44	37.4	5.27		
PCB-45	10.8	5.27		
PCB-46	ND	5.27	3.03	UM
PCB-47	ND	12.5	12.5	UM
PCB-48/75	5.56	10.5		J
PCB-50	ND	5.27	1.05	U
PCB-51	ND	5.27	2.77	UM
PCB-52/69	37.1	10.5		
PCB-53	10.1	5.27		
PCB-54	ND	5.27	0.841	U
PCB-55	ND	5.27	0.581	U
PCB-56/60	15.0	10.5		
PCB-57	ND	5.27	0.676	U
PCB-58	ND	5.27	0.648	U
PCB-61/70	14.7	10.5		
PCB-62	ND	5.27	0.733	U
PCB-63	1.33	5.27		J
PCB-65	ND	5.27	0.775	U
PCB-66/76	22.8	10.5		
PCB-67	ND	5.27	0.920	UM
PCB-68	ND	5.27	0.623	U
PCB-73	ND	5.27	0.782	U
PCB-74	12.1	5.27		
PCB-77	2.17	5.27		J
PCB-78	ND	5.27	0.603	U
PCB-79	ND	5.27	0.591	U
PCB-80	ND	5.27	0.533	U
PCB-81	ND	5.27	0.565	U
PCB-82	3.44	5.27		J
PCB-83	ND	5.27	0.730	U
PCB-84/92	ND	10.5	7.31	UM
PCB-85/116	ND	10.5	3.09	UM
PCB-86	ND	5.27	1.25	U
PCB-87/117/125	ND	15.8	7.07	UM
PCB-88/91	3.34	5.27		J

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-ROIS-T170524113548

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:58

Sample Data
Matrix: Water
Sample Size: 0.948 L

Laboratory Data
Lab Sample: 1700918-05 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 21:49 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	ND	5.27	1.11	U
PCB-90/101	15.4	10.5		
PCB-93	ND	5.27	1.13	U
PCB-94	ND	5.27	1.06	U
PCB-95/98/102	13.9	15.8		J
PCB-96	ND	5.27	0.848	U
PCB-97	5.86	5.27		
PCB-99	ND	7.32	7.32	UM
PCB-100	ND	5.27	0.929	U
PCB-103	ND	5.27	0.922	U
PCB-104	ND	5.27	0.746	U
PCB-105	6.83	5.27		
PCB-106/118	11.4	10.5		
PCB-107/109	ND	10.5	0.666	U
PCB-108/112	ND	10.5	0.872	U
PCB-110	17.8	5.27		
PCB-111/115	ND	10.5	0.668	U
PCB-113	ND	5.27	0.822	U
PCB-114	ND	5.27	0.975	U
PCB-119	ND	5.27	0.664	U
PCB-120	ND	5.27	0.615	U
PCB-121	ND	5.27	0.704	U
PCB-122	ND	5.27	1.07	U
PCB-123	ND	5.27	0.667	U
PCB-124	ND	5.27	0.663	U
PCB-126	ND	5.27	1.17	U
PCB-127	ND	5.27	1.11	U
PCB-128/162	1.26	10.5		J
PCB-129	ND	5.27	0.838	U
PCB-130	ND	5.27	0.905	U
PCB-131/133	ND	10.5	0.816	U
PCB-132/161	2.33	10.5		J
PCB-134/143	ND	10.5	0.809	U
PCB-135	1.58	5.27		J
PCB-136	1.31	5.27		J

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-137	ND	5.27	0.730	U
PCB-138/163/164	7.62	15.8		J
PCB-139/149	5.98	10.5		J
PCB-140	ND	5.27	1.22	U
PCB-141	ND	5.27	1.08	UM
PCB-142	ND	5.27	0.843	U
PCB-144	ND	5.27	1.10	U
PCB-145	ND	5.27	0.905	U
PCB-146/165	1.27	10.5		J
PCB-147	ND	5.27	1.25	U
PCB-148	ND	5.27	1.20	U
PCB-150	ND	5.27	0.883	U
PCB-151	ND	5.27	1.31	UM
PCB-152	ND	5.27	0.871	U
PCB-153	ND	5.64	5.64	UM
PCB-154	ND	5.27	1.09	U
PCB-155	1.13	5.27		J
PCB-156	0.575	5.27		J
PCB-157	ND	5.27	0.557	U
PCB-158/160	ND	10.5	0.830	UM
PCB-159	ND	5.27	0.538	U
PCB-166	ND	5.27	0.586	U
PCB-167	ND	5.27	0.548	U
PCB-168	ND	5.27	0.529	U
PCB-169	ND	5.27	0.587	U
PCB-170	0.930	5.27		J
PCB-171	ND	5.27	0.350	U
PCB-172	ND	5.27	0.365	U
PCB-173	ND	5.27	0.431	U
PCB-174	ND	5.27	0.713	UM
PCB-175	ND	5.27	0.367	U
PCB-176	ND	5.27	0.270	U
PCB-177	ND	5.27	0.630	UM
PCB-178	ND	5.27	0.373	U
PCB-179	0.445	5.27		J

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-ROIS-T170524113548

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:58

Sample Data
Matrix: Water
Sample Size: 0.948 L

Laboratory Data
Lab Sample: 1700918-05 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 21:49 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	2.34	5.27		J
PCB-181	ND	5.27	0.359	U
PCB-182/187	1.66	10.5		J
PCB-183	0.571	5.27		J
PCB-184	ND	5.27	0.713	UM
PCB-185	ND	5.27	0.362	U
PCB-186	ND	5.27	0.269	U
PCB-188	ND	5.27	0.268	U
PCB-189	ND	5.27	0.230	U
PCB-190	ND	5.27	0.266	U
PCB-191	ND	5.27	0.264	U
PCB-192	ND	5.27	0.281	U
PCB-193	ND	5.27	0.271	U
PCB-194	ND	5.27	0.926	U
PCB-195	ND	5.27	1.02	U
PCB-196/203	ND	10.5	0.822	U
PCB-197	ND	5.27	0.591	U
PCB-198	ND	5.27	0.862	U
PCB-199	ND	5.27	0.937	U
PCB-200	ND	5.27	0.635	U
PCB-201	ND	5.27	0.625	U
PCB-202	ND	5.27	0.678	U
PCB-204	ND	5.27	0.664	U
PCB-205	ND	5.27	0.716	U
PCB-206	ND	5.27	0.524	U
PCB-207	ND	5.27	0.329	U
PCB-208	ND	5.27	0.335	U
PCB-209	ND	5.27	0.473	U
Total monoCB	1.16			
Total diCB	134			
Total triCB	227			
Total tetraCB	264			
Total pentaCB	78.0			
Total hexaCB	23.1			
Total heptaCB	5.94			

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	ND		1.02	U
Total nonaCB	ND		0.524	U
DecaCB	ND		0.473	U
Total PCB	732			

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-ROIS-T170524113548

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 24-May-2017 9:58

Sample Data
Matrix: Water
Sample Size: 0.948 L

Laboratory Data
Lab Sample: 1700918-05 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 21:49 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	63.5	5 -145	
	13C-PCB-3	61.5	5 -145	
	13C-PCB-4	77.6	5 -145	
	13C-PCB-11	78.9	5 -145	
	13C-PCB-9	70.3	5 -145	
	13C-PCB-19	64.4	5 -145	
	13C-PCB-28	78.5	5 -145	
	13C-PCB-32	66.3	5 -145	
	13C-PCB-37	92.1	5 -145	
	13C-PCB-47	89.5	5 -145	
	13C-PCB-52	85.9	5 -145	
	13C-PCB-54	79.1	5 -145	
	13C-PCB-70	92.9	5 -145	
	13C-PCB-77	96.0	10 -145	
	13C-PCB-80	97.9	10 -145	
	13C-PCB-81	99.8	10 -145	
	13C-PCB-95	88.2	10 -145	
	13C-PCB-97	92.0	10 -145	
	13C-PCB-101	90.6	10 -145	
	13C-PCB-104	83.7	10 -145	
	13C-PCB-105	68.7	10 -145	
	13C-PCB-114	75.5	10 -145	
	13C-PCB-118	96.1	10 -145	
	13C-PCB-123	97.3	10 -145	
	13C-PCB-126	70.4	10 -145	
	13C-PCB-127	73.4	10 -145	
	13C-PCB-138	96.3	10 -145	
	13C-PCB-141	94.2	10 -145	
	13C-PCB-153	93.9	10 -145	
	13C-PCB-155	105	10 -145	
	13C-PCB-156	96.5	10 -145	
	13C-PCB-157	99.4	10 -145	
	13C-PCB-159	97.4	10 -145	
	13C-PCB-167	95.9	10 -145	
	13C-PCB-169	98.9	10 -145	
	13C-PCB-170	95.7	10 -145	
	13C-PCB-180	95.9	10 -145	
	13C-PCB-188	90.8	10 -145	
	13C-PCB-189	96.8	10 -145	
	13C-PCB-194	87.3	10 -145	
	13C-PCB-202	92.8	10 -145	
	13C-PCB-206	131	10 -145	
	13C-PCB-208	136	10 -145	
	13C-PCB-209	159	10 -145	H
CRS	13C-PCB-79	102	10 -145	
	13C-PCB-178	101	10 -145	

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Client ID: OWS-ROIS-T170524113548 Filename: 170731E1 S:9 Acq:31-JUL-17 21:49:33 ConCal: ST170731E1-1

Lab ID: 1700918-05 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.948 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	4.11e+04	3.43	y	16:04	1.36	1.16		*	2.5	*	1.001	0.996	1.006
Mono	PCB-2	*	*	n	NotF¶	1.30	*		926	2.5	0.833	*	0.983	0.993
Mono	PCB-3	*	*	n	NotF¶	1.33	*		926	2.5	0.819	*	0.996	1.006
Di	PCB-4/10	3.60e+06	1.45	y	20:03	1.32	112		*	2.5	*	1.001	0.997	1.007
Di	PCB-7/9	*	*	n	NotF¶	1.00	*		2600	2.5	1.63	*	0.864	0.871
Di	PCB-6	*	*	n	NotF¶	0.99	*		2600	2.5	1.65	*	0.888	0.897
Di	PCB-5/8	*	*	n	NotF¶	1.03	*		2600	2.5	1.58	*	0.905	0.915
Di	PCB-14	*	*	n	NotF¶	1.16	*		2600	2.5	1.27	*	0.948	0.958
Di	PCB-11	3.71e+05	1.55	y	25:14	1.03	8.43		*	2.5	*	1.001	0.996	1.006
Di	PCB-12/13	*	*	n	NotF¶	1.03	*		2600	2.5	1.44	*	1.011	1.021
Di	PCB-15	6.81e+05	1.76	y	25:56	1.17	13.7		*	2.5	*	1.028	1.023	1.033
Tri	PCB-19	1.22e+06	1.14	y	24:13	1.52	52.6		*	2.5	*	1.001	0.996	1.006
Tri	PCB-30	*	*	n	NotF¶	2.51	*		1150	2.5	0.567	*	1.033	1.043
Tri	PCB-18	1.34e+06	0.94	y	25:52	1.11	49.8		*	2.5	*	0.953	0.949	0.959
Tri	PCB-17	5.58e+05	0.95	y	26:03	1.21	19.0		*	2.5	*	0.960	0.955	0.965
Tri	PCB-24/27	6.61e+05	1.12	y	26:37	1.61	16.9		*	2.5	*	0.981	0.976	0.986
Tri	PCB-16/32	1.58e+06	1.09	y	27:09	1.35	48.3		*	2.5	*	1.001	0.995	1.005
Tri	PCB-34	*	*	n	NotF¶	0.98	*		893	2.5	1.56	*	0.955	0.965
Tri	PCB-23	*	*	n	NotF¶	0.93	*		893	2.5	1.63	*	0.958	0.968
Tri	PCB-29	*	*	n	NotF¶	0.97	*		893	2.5	1.57	*	0.967	0.977
Tri	PCB-26	4.33e+04	1.70	n	28:30	0.96	3.35		*	2.5	*	0.979	0.975	0.985
Tri	PCB-25	*	*	n	NotF¶	0.87	*		893	2.5	1.75	*	0.980	0.990
Tri	PCB-31	1.40e+05	1.09	y	29:00	1.00	10.5		*	2.5	*	0.997	0.992	1.002
Tri	PCB-28	2.53e+05	0.89	y	29:07	0.93	20.2		*	2.5	*	1.001	0.995	1.005
Tri	PCB-20/21/33	*	*	n	NotF¶	0.89	*		893	2.5	1.72	*	1.017	1.027
Tri	PCB-22	4.73e+04	0.96	y	30:10	0.93	3.80		*	2.5	*	1.037	1.032	1.042
Tri	PCB-36	*	*	n	NotF¶	0.94	*		893	2.5	1.61	*	0.929	0.939
Tri	PCB-39	*	*	n	NotF¶	1.01	*		893	2.5	1.50	*	0.943	0.953
Tri	PCB-38	*	*	n	NotF¶	0.90	*		893	2.5	1.67	*	0.966	0.976
Tri	PCB-35	*	*	n	NotF¶	0.89	*		893	2.5	1.69	*	0.982	0.992
Tri	PCB-37	8.51e+04	1.14	y	32:59	1.03	5.48		*	2.5	*	1.001	0.995	1.005
Tetra	PCB-54	*	*	n	NotF¶	1.17	*		1430	2.5	0.841	*	0.996	1.006
Tetra	PCB-50	*	*	n	NotF¶	0.94	*		1430	2.5	1.05	*	1.038	1.048
Tetra	PCB-53	3.14e+05	0.82	y	29:49	1.19	10.1		*	2.5	*	0.946	0.941	0.951
Tetra	PCB-51	9.08e+04	1.10	n	30:09	1.25	2.77		*	2.5	*	0.957	0.952	0.962
Tetra	PCB-45	3.04e+05	0.85	y	30:34	1.08	10.8		*	2.5	*	0.970	0.966	0.976
Tetra	PCB-46	7.98e+04	1.00	n	31:04	1.01	3.03		*	2.5	*	0.986	0.981	0.991

Integrations by:

Analyst: DB

Date: 8/3/17

Reviewed by: MK Date: 8/6/17

Client ID: OWS-ROIS-T170524113548 Filename: 170731E1 S:9 Acq:31-JUL-17 21:49:33 ConCal: ST170731E1-1

Lab ID: 1700918-05 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.948 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	1.35e+06	0.72	y	31:32	1.39	37.1		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-73	*	*	n	NotF	1.51	*		1430	2.5	0.782	*	1.000-1.010
Tetra	PCB-43/49	1.12e+06	0.71	y	31:50	1.20	35.7		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	4.35e+05	0.63	n	32:02	1.19	12.5		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-48/75	2.26e+05	0.87	y	32:09	1.39	5.56		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n	NotF	1.31	*		1430	2.5	0.775	*	1.007-1.017
Tetra	PCB-62	*	*	n	NotF	1.38	*		1430	2.5	0.733	*	1.011-1.021
Tetra	PCB-44	1.05e+06	0.72	y	32:49	0.96	37.4		*	2.5	*	1.025	1.020-1.030
Tetra	PCB-42/59	6.22e+05	0.69	y	33:03	1.32	16.0		*	2.5	*	1.032	1.027-1.037
Tetra	PCB-41/64/71/72	1.47e+06	0.80	y	33:39	1.38	36.3		*	2.5	*	1.051	1.046-1.056
Tetra	PCB-68	*	*	n	NotF	1.63	*		1430	2.5	0.623	*	1.054-1.064
Tetra	PCB-40	1.69e+05	0.74	y	34:07	0.91	6.35		*	2.5	*	1.066	1.061-1.071
Tetra	PCB-57	*	*	n	NotF	1.23	*		1430	2.5	0.676	*	0.965-0.975
Tetra	PCB-67	4.22e+04	0.95	n	34:47	1.21	0.920		*	2.5	*	0.978	0.974-0.984
Tetra	PCB-58	*	*	n	NotF	1.28	*		1430	2.5	0.648	*	0.977-0.987
Tetra	PCB-63	6.55e+04	0.73	y	35:02	1.30	1.33		*	2.5	*	0.985	0.981-0.991
Tetra	PCB-74	6.00e+05	0.82	y	35:20	1.31	12.1		*	2.5	*	0.994	0.990-1.000
Tetra	PCB-61/70	6.89e+05	0.83	y	35:33	1.23	14.7		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	1.11e+06	0.82	y	35:45	1.29	22.8		*	2.5	*	1.006	1.000-1.010
Tetra	PCB-80	*	*	n	NotF	1.49	*		1430	2.5	0.533	*	0.996-1.006
Tetra	PCB-55	*	*	n	NotF	1.36	*		1430	2.5	0.581	*	1.004-1.014
Tetra	PCB-56/60	7.61e+05	0.81	y	36:47	1.25	15.0		*	2.5	*	1.023	1.018-1.028
Tetra	PCB-79	*	*	n	NotF	1.34	*		1430	2.5	0.591	*	1.048-1.058
Tetra	PCB-78	*	*	n	NotF	1.29	*		1430	2.5	0.603	*	0.982-0.992
Tetra	PCB-81	*	*	n	NotF	1.38	*		1430	2.5	0.565	*	0.995-1.005
Tetra	PCB-77	1.17e+05	0.79	y	39:39	1.42	2.17		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	*	*	n	NotF	1.47	*		1150	2.5	0.746	*	0.996-1.006
Penta	PCB-96	*	*	n	NotF	1.29	*		1150	2.5	0.848	*	1.034-1.044
Penta	PCB-103	*	*	n	NotF	1.19	*		1150	2.5	0.922	*	1.051-1.061
Penta	PCB-100	*	*	n	NotF	1.18	*		1150	2.5	0.929	*	1.061-1.071
Penta	PCB-94	*	*	n	NotF	1.25	*		1150	2.5	1.06	*	0.981-0.991
Penta	PCB-95/98/102	5.14e+05	1.64	y	35:51	1.40	13.9		*	2.5	*	1.000	0.994-1.004
Penta	PCB-93	*	*	n	NotF	1.18	*		1150	2.5	1.13	*	0.998-1.008
Penta	PCB-88/91	1.16e+05	1.33	y	36:15	1.32	3.34		*	2.5	*	1.012	1.006-1.016
Penta	PCB-121	*	*	n	NotF	1.89	*		1150	2.5	0.704	*	1.009-1.019
Penta	PCB-84/92	2.57e+05	1.91	n	37:09	1.30	7.31		*	2.5	*	0.990	0.985-0.995
Penta	PCB-89	*	*	n	NotF	1.23	*		1150	2.5	1.11	*	0.990-1.000

Analyst: DB

Date: 8/3/17

Client ID: OWS-ROIS-T170524113548 Filename: 170731E1 S:9 Acq:31-JUL-17 21:49:33 ConCal: ST170731E1-1

Lab ID: 1700918-05 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.948 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	6.11e+05	1.54	y 37:32	1.47	15.4		*	2.5	*	1.000	0.995-1.005
Penta	PCB-113	*	*	n NotF¶	1.65	*		1150	2.5	0.822	*	1.001-1.011
Penta	PCB-99	2.94e+05	1.92	n 37:52	1.48	7.32		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	*	*	n NotF¶	2.25	*		1150	2.5	0.664	*	0.982-0.992
Penta	PCB-108/112	*	*	n NotF¶	1.71	*		1150	2.5	0.872	*	0.986-0.996
Penta	PCB-83	*	*	n NotF¶	2.05	*		1150	2.5	0.730	*	0.990-1.000
Penta	PCB-97	2.19e+05	1.61	y 38:51	1.56	5.86		*	2.5	*	1.001	0.995-1.005
Penta	PCB-86	*	*	n NotF¶	1.20	*		1150	2.5	1.25	*	0.999-1.009
Penta	PCB-87/117/125	3.22e+05	1.22	n 39:07	1.91	7.07		*	2.5	*	1.008	1.002-1.012
Penta	PCB-111/115	*	*	n NotF¶	2.24	*		1150	2.5	0.668	*	1.006-1.016
Penta	PCB-85/116	1.23e+05	0.97	n 39:22	1.66	3.09		*	2.5	*	1.014	1.010-1.020
Penta	PCB-120	*	*	n NotF¶	2.43	*		1150	2.5	0.615	*	1.016-1.026
Penta	PCB-110	8.42e+05	1.64	y 39:46	1.98	17.8		*	2.5	*	1.024	1.019-1.029
Penta	PCB-82	1.05e+05	1.77	y 40:24	0.91	3.44		*	2.5	*	0.976	0.971-0.981
Penta	PCB-124	*	*	n NotF¶	1.59	*		1150	2.5	0.663	*	0.988-0.998
Penta	PCB-107/109	*	*	n NotF¶	1.58	*		1150	2.5	0.666	*	0.991-1.001
Penta	PCB-123	*	*	n NotF¶	1.58	*		1150	2.5	0.667	*	0.996-1.006
Penta	PCB-106/118	6.36e+05	1.46	y 41:34	1.57	11.4		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	*	*	n NotF¶	1.18	*		1080	2.5	0.975	*	0.995-1.005
Penta	PCB-122	*	*	n NotF¶	1.07	*		1080	2.5	1.07	*	0.999-1.009
Penta	PCB-105	2.25e+05	1.38	y 43:05	1.23	6.83		*	2.5	*	1.000	0.995-1.005
Penta	PCB-127	*	*	n NotF¶	1.03	*		1080	2.5	1.11	*	0.995-1.005
Penta	PCB-126	*	*	n NotF¶	1.12	*		1080	2.5	1.17	*	0.995-1.005
Hexa	PCB-155	4.41e+04	1.15	y 37:06	1.31	1.13		*	2.5	*	1.001	0.966-1.006
Hexa	PCB-150	*	*	n NotF¶	1.22	*		1170	2.5	0.883	*	1.030-1.040
Hexa	PCB-152	*	*	n NotF¶	1.24	*		1170	2.5	0.871	*	1.042-1.052
Hexa	PCB-145	*	*	n NotF¶	1.20	*		1170	2.5	0.905	*	1.054-1.064
Hexa	PCB-136	4.95e+04	1.28	y 39:35	1.28	1.31		*	2.5	*	1.068	1.063-1.073
Hexa	PCB-148	*	*	n NotF¶	0.91	*		1170	2.5	1.20	*	1.066-1.076
Hexa	PCB-154	*	*	n NotF¶	1.00	*		1170	2.5	1.09	*	1.079-1.089
Hexa	PCB-151	3.56e+04	0.64	n 40:49	0.92	1.31		*	2.5	*	1.101	1.097-1.107
Hexa	PCB-135	4.14e+04	1.10	y 41:05	0.88	1.58		*	2.5	*	1.108	1.101-1.113
Hexa	PCB-144	*	*	n NotF¶	0.98	*		1170	2.5	1.10	*	1.105-1.116
Hexa	PCB-147	*	*	n NotF¶	0.87	*		1170	2.5	1.25	*	1.108-1.120
Hexa	PCB-139/149	1.74e+05	1.32	y 41:32	0.98	5.98		*	2.5	*	1.121	1.115-1.127
Hexa	PCB-140	*	*	n NotF¶	0.89	*		1170	2.5	1.22	*	1.120-1.132
Hexa	PCB-134/143	*	*	n NotF¶	0.95	*		1160	2.5	0.809	*	0.970-0.980

Analyst: DB

Date: 8/3/17

Client ID: OWS-ROIS-T170524113548 Filename: 170731E1 S:9 Acq:31-JUL-17 21:49:33 ConCal: ST170731E1-1

Lab ID: 1700918-05 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.948 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-131/133	*	*	n NotF	0.94	*		1160	2.5	0.816	*	0.977-0.987
Hexa	PCB-142	*	*	n NotF	0.91	*		1160	2.5	0.843	*	0.981-0.991
Hexa	PCB-146/165	6.13e+04	1.34	y 42:51	1.18	1.27		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	1.12e+05	1.40	y 43:06	1.17	2.33		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	2.79e+05	1.00	n 43:16	1.21	5.64		*	2.5	*	1.001	0.995-1.005
Hexa	PCB-168	*	*	n NotF	1.46	*		1160	2.5	0.529	*	1.000-1.010
Hexa	PCB-141	4.83e+04	0.74	n 43:59	1.30	1.08		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-137	*	*	n NotF	1.32	*		1160	2.5	0.730	*	1.004-1.014
Hexa	PCB-130	*	*	n NotF	1.07	*		1160	2.5	0.905	*	1.007-1.017
Hexa	PCB-138/163/164	4.00e+05	1.28	y 44:50	1.43	7.62		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-158/160	4.80e+04	0.96	n 45:03	1.57	0.830		*	2.5	*	1.005	1.001-1.011
Hexa	PCB-129	*	*	n NotF	1.05	*		1160	2.5	0.838	*	1.007-1.017
Hexa	PCB-166	*	*	n NotF	1.31	*		1160	2.5	0.586	*	0.988-0.998
Hexa	PCB-159	*	*	n NotF	1.42	*		1160	2.5	0.538	*	0.995-1.005
Hexa	PCB-128/162	6.52e+04	1.17	y 46:23	1.15	1.26		*	2.5	*	1.006	1.002-1.012
Hexa	PCB-167	*	*	n NotF	1.32	*		1160	2.5	0.548	*	0.995-1.005
Hexa	PCB-156	3.55e+04	1.22	y 48:05	1.38	0.575		*	2.5	*	1.001	0.995-1.005
Hexa	PCB-157	*	*	n NotF	1.38	*		1160	2.5	0.557	*	0.995-1.005
Hexa	PCB-169	*	*	n NotF	1.27	*		1160	2.5	0.587	*	0.995-1.005
Hepta	PCB-188	*	*	n NotF	1.78	*		778	2.5	0.268	*	0.996-1.006
Hepta	PCB-184	3.36e+04	1.64	n 43:19	1.63	0.713		*	2.5	*	1.010	1.006-1.016
Hepta	PCB-179	2.09e+04	1.08	y 44:06	1.63	0.445		*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	*	*	n NotF	1.77	*		778	2.5	0.270	*	1.035-1.045
Hepta	PCB-186	*	*	n NotF	1.77	*		778	2.5	0.269	*	1.049-1.059
Hepta	PCB-178	*	*	n NotF	1.28	*		778	2.5	0.373	*	1.061-1.071
Hepta	PCB-175	*	*	n NotF	1.30	*		778	2.5	0.367	*	1.069-1.079
Hepta	PCB-182/187	6.72e+04	1.16	y 46:10	1.41	1.66		*	2.5	*	1.077	1.073-1.083
Hepta	PCB-183	2.50e+04	1.19	y 46:31	1.51	0.571		*	2.5	*	1.085	1.080-1.090
Hepta	PCB-185	*	*	n NotF	1.78	*		778	2.5	0.362	*	0.951-0.961
Hepta	PCB-174	2.63e+04	0.83	n 47:32	1.70	0.713		*	2.5	*	0.963	0.958-0.968
Hepta	PCB-181	*	*	n NotF	1.80	*		778	2.5	0.359	*	0.960-0.970
Hepta	PCB-177	2.16e+04	0.74	n 47:48	1.59	0.630		*	2.5	*	0.969	0.964-0.974
Hepta	PCB-171	*	*	n NotF	1.84	*		778	2.5	0.350	*	0.969-0.979
Hepta	PCB-173	*	*	n NotF	1.50	*		778	2.5	0.431	*	0.978-0.988
Hepta	PCB-172	*	*	n NotF	1.77	*		778	2.5	0.365	*	0.987-0.997
Hepta	PCB-192	*	*	n NotF	2.29	*		778	2.5	0.281	*	0.991-1.001
Hepta	PCB-180	9.20e+04	0.99	y 49:22	1.82	2.34		*	2.5	*	1.000	0.995-1.005

Analyst: DB

Date: 8/3/17

Client ID: OWS-ROIS-T170524113548 Filename: 170731E1 S:9 Acq:31-JUL-17 21:49:33 ConCal: ST170731E1-1

Lab ID: 1700918-05 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.948 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hepta	PCB-193	*	*	n NotFound	2.38	*		778	2.5	0.271	*	0.999-1.009
Hepta	PCB-191	*	*	n NotFound	2.44	*		778	2.5	0.264	*	1.005-1.015
Hepta	PCB-170	3.40e+04	0.93	y 50:57	1.96	0.930		*	2.5	*	1.000	0.995-1.005
Hepta	PCB-190	*	*	n NotFound	2.72	*		778	2.5	0.266	*	0.999-1.009
Hepta	PCB-189	*	*	n NotFound	1.97	*		778	2.5	0.230	*	0.995-1.005
Octa	PCB-202	*	*	n NotFound	1.29	*		739	2.5	0.678	*	0.995-1.005
Octa	PCB-201	*	*	n NotFound	1.40	*		739	2.5	0.625	*	1.005-1.015
Octa	PCB-204	*	*	n NotFound	1.32	*		739	2.5	0.664	*	1.009-1.019
Octa	PCB-197	*	*	n NotFound	1.48	*		739	2.5	0.591	*	1.015-1.025
Octa	PCB-200	*	*	n NotFound	1.38	*		739	2.5	0.635	*	1.034-1.044
Octa	PCB-198	*	*	n NotFound	1.02	*		739	2.5	0.862	*	1.063-1.073
Octa	PCB-199	*	*	n NotFound	0.94	*		739	2.5	0.937	*	1.065-1.075
Octa	PCB-196/203	*	*	n NotFound	1.07	*		739	2.5	0.822	*	1.071-1.081
Octa	PCB-195	*	*	n NotFound	1.01	*		929	2.5	1.02	*	0.979-0.989
Octa	PCB-194	*	*	n NotFound	1.11	*		929	2.5	0.926	*	0.995-1.005
Octa	PCB-205	*	*	n NotFound	1.43	*		929	2.5	0.716	*	1.000-1.010
Nona	PCB-208	*	*	n NotFound	1.16	*		873	2.5	0.335	*	0.995-1.005
Nona	PCB-207	*	*	n NotFound	1.18	*		873	2.5	0.329	*	1.001-1.011
Nona	PCB-206	*	*	n NotFound	0.98	*		873	2.5	0.524	*	0.995-1.005
Deca	PCB-209	*	*	n NotFound	1.56	*		995	2.5	0.473	*	0.995-1.005

Analyst: DB

Date: 8/3/17

Client ID: OWS-ROIS-T170524113548 Filename: 170731E1 S:9 Acq:31-JUL-17 21:49:33 ConCal: ST170731E1-1
Lab ID: 1700918-05 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.9480 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	4.11e+04	3.43	y	16:04	1.33	1.15980	
Total Di-PCB	4.66e+06	1.45	y	20:03	1.05	134.059	
Total Tri-PCB	5.36e+06	1.14	y	24:13	1.54	186.609	
Total Tri-PCB	5.25e+05	1.09	y	29:00	0.94	39.9332	Sum:226.542
Total Tetra-PCB	9.97e+06	0.82	y	29:49	1.25	263.521	
Total Penta-PCB	3.04e+06	1.64	y	35:51	1.47	71.2013	
Total Penta-PCB	2.25e+05	1.38	y	43:05	1.13	6.83151	Sum:78.0328
Total Hexa-PCB	3.09e+05	1.15	y	37:06	1.05	9.99742	
Total Hexa-PCB	6.74e+05	1.34	y	42:51	1.23	13.0648	Sum:23.0622
Total Hepta-PCB	2.39e+05	1.08	y	44:06	1.72	5.94037	
Total Octa-PCB	*	*	n	NotFnd	1.22	*	
Total Octa-PCB	*	*	n	NotFnd	1.18	*	Sum:0.00000
Total Nona-PCB	*	*	n	NotFnd	1.12	*	
Total Deca-PCB	*	*	n	NotFnd	1.56	*	

Total PCB Conc:790.603596000

Integrations by Analyst: DB

Date: 8/3/17

Client ID: OWS-ROIS-T170524113548 Filename: 170731E1 S:9 Acq:31-JUL-17 21:49:33 ConCal: ST170731E1-1
Lab ID: 1700918-05 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:0.9480 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	5.49e+07	3.13 y	0.70	16:03	0.619	0.617	0.623	1340	63.5
13C-PCB-3	5.94e+07	3.15 y	0.79	18:41	0.720	0.717	0.725	1300	61.5
13C-PCB-4	5.14e+07	1.59 y	0.54	20:02	0.772	0.769	0.777	1640	77.6
13C-PCB-9	7.69e+07	1.55 y	0.89	21:50	0.842	0.838	0.846	1480	70.3
13C-PCB-11	9.03e+07	1.56 y	0.93	25:13	0.972	0.968	0.978	1660	78.9
13C-PCB-19	3.22e+07	1.04 y	0.41	24:12	0.933	0.928	0.938	1360	64.4
13C-PCB-28	2.83e+07	1.04 y	1.04	29:06	1.003	0.999	1.009	1660	78.5
13C-PCB-32	5.12e+07	1.03 y	0.63	27:08	1.046	1.041	1.051	1400	66.3
13C-PCB-37	3.17e+07	1.10 y	1.00	32:58	1.137	1.132	1.144	1940	92.1
13C-PCB-47	6.18e+07	0.77 y	0.80	32:01	0.870	0.867	0.875	1890	89.5
13C-PCB-52	5.52e+07	0.81 y	0.74	31:31	0.857	0.853	0.861	1810	85.9
13C-PCB-54	6.41e+07	0.80 y	0.94	27:58	0.760	0.757	0.765	1670	79.1
13C-PCB-70	7.99e+07	0.79 y	0.99	35:33	0.966	0.961	0.971	1960	92.9
13C-PCB-77	8.05e+07	0.79 y	0.97	39:39	1.078	1.073	1.083	2030	96.0
13C-PCB-80	8.56e+07	0.82 y	1.01	35:58	0.978	0.973	0.983	2070	97.9
13C-PCB-81	8.74e+07	0.77 y	1.01	39:03	1.062	1.057	1.067	2100	99.8
13C-PCB-95	5.56e+07	1.51 y	0.80	35:50	0.913	0.908	0.918	1860	88.2
13C-PCB-97	5.04e+07	1.58 y	0.70	38:49	0.989	0.984	0.994	1940	92.0
13C-PCB-101	5.72e+07	1.58 y	0.81	37:31	0.955	0.951	0.961	1910	90.6
13C-PCB-104	6.59e+07	1.55 y	1.01	32:40	0.832	0.828	0.836	1770	83.7
13C-PCB-105	5.65e+07	1.50 y	1.18	43:05	0.929	0.924	0.934	1450	68.7
13C-PCB-114	6.24e+07	1.55 y	1.18	42:13	0.910	0.905	0.915	1590	75.5
13C-PCB-118	7.47e+07	1.59 y	0.99	41:34	1.059	1.054	1.064	2030	96.1
13C-PCB-123	7.14e+07	1.56 y	0.94	41:23	1.054	1.049	1.059	2050	97.3
13C-PCB-126	5.73e+07	1.53 y	1.17	45:19	0.977	0.972	0.982	1480	70.4
13C-PCB-127	6.46e+07	1.49 y	1.26	43:25	0.936	0.931	0.941	1550	73.4
13C-PCB-138	7.76e+07	1.24 y	1.15	44:49	0.967	0.961	0.971	2030	96.3
13C-PCB-141	7.26e+07	1.28 y	1.11	43:58	0.948	0.943	0.953	1990	94.2
13C-PCB-153	8.64e+07	1.24 y	1.32	43:14	0.932	0.927	0.937	1980	93.9
13C-PCB-155	6.26e+07	1.28 y	0.76	37:04	0.944	0.939	0.949	2220	105
13C-PCB-156	9.45e+07	1.30 y	1.40	48:03	1.036	1.032	1.042	2040	96.5
13C-PCB-157	9.68e+07	1.31 y	1.40	48:20	1.042	1.038	1.048	2100	99.4
13C-PCB-159	9.45e+07	1.28 y	1.39	46:06	0.994	0.989	0.999	2060	97.4
13C-PCB-167	9.43e+07	1.27 y	1.41	46:47	1.009	1.004	1.014	2020	95.9
13C-PCB-169	9.49e+07	1.26 y	1.38	50:32	1.090	1.085	1.095	2090	98.9
13C-PCB-170	3.94e+07	0.46 y	0.83	50:56	1.103	1.093	1.103	2020	95.7
13C-PCB-180	4.57e+07	0.47 y	0.96	49:21	1.069	1.059	1.069	2020	95.9
13C-PCB-188	6.09e+07	0.45 y	1.36	42:52	0.928	0.919	0.929	1920	90.8
13C-PCB-189	5.55e+07	0.47 y	1.16	52:33	1.138	1.125	1.137	2040	96.8
13C PCB 194	3.03e+07	0.85 y	0.74	54:06	0.995	0.990	1.000	1840	87.3
13C-PCB-202	4.34e+07	0.93 y	0.95	48:16	1.045	1.036	1.046	1960	92.8
13C-PCB-206	5.63e+07	0.78 y	0.91	55:39	1.024	1.019	1.029	2760	131
13C-PCB-208	7.64e+07	0.77 y	1.19	53:21	0.981	0.977	0.987	2870	136
13C-PCB-209	6.00e+07	1.18 y	0.80	56:58	1.048	1.044	1.054	3360	159

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	9.06e+07	0.79 y	1.02	37:50	1.029	1.024	1.033	2160	102
13C-PCB-178	4.50e+07	0.46 y	0.90	45:39	0.985	0.980	0.989	2130	101

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	9.06e+07	0.79 y	1.01	37:50	0.969	0.963	0.973	2160	103
13C-PCB-178	4.50e+07	0.46 y	0.94	45:39	0.925	0.920	0.930	2220	105

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.23e+08	1.54	y	1.00	25:56	2110
13C-PCB-31	3.45e+07	1.03	y	1.00	29:00	2110
13C-PCB-60	8.65e+07	0.80	y	1.00	36:47	2110
13C-PCB-111	7.83e+07	1.60	y	1.00	39:16	2110
13C-PCB-128	6.98e+07	1.27	y	1.00	46:22	2110
13C-PCB-182	4.94e+07	0.45	y	1.00	46:11	2110
13C-PCB-205	4.73e+07	0.84	y	1.00	54:22	2110

Analyst: DB

Date: 8/11/17

Sample ID: OWS-SCHU-T170524112607

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 12:01

Sample Data
Matrix: Water
Sample Size: 0.974 L

Laboratory Data
Lab Sample: 1700918-06 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 22:54 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	232	5.13		
PCB-2	2.76	5.13		J
PCB-3	40.6	5.13		
PCB-4/10	4620	10.3		
PCB-5/8	123	10.3		
PCB-6	35.3	5.13		
PCB-7/9	10.2	10.3		J
PCB-11	12.2	5.13		
PCB-12/13	27.0	10.3		
PCB-14	ND	5.13	1.36	U
PCB-15	207	5.13		
PCB-16/32	392	10.3		
PCB-17	230	5.13		
PCB-18	325	5.13		
PCB-19	1940	5.13		
PCB-20/21/33	37.6	15.4		
PCB-22	32.6	5.13		
PCB-23	ND	5.13	3.07	U
PCB-24/27	549	10.3		
PCB-25	26.1	5.13		
PCB-26	94.2	5.13		
PCB-28	151	5.13		
PCB-29	ND	5.13	2.95	U
PCB-30	ND	5.13	0.794	U
PCB-31	141	5.13		
PCB-34	7.72	5.13		
PCB-35	ND	5.13	3.42	U
PCB-36	ND	5.13	3.25	U
PCB-37	40.0	5.13		
PCB-38	18.3	5.13		
PCB-39	ND	5.13	3.03	U
PCB-40	28.8	5.13		
PCB-41/64/71/72	200	20.5		
PCB-42/59	73.2	10.3		
PCB-43/49	274	10.3		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-44	148	5.13		
PCB-45	55.2	5.13		
PCB-46	17.9	5.13		
PCB-47	183	5.13		
PCB-48/75	28.3	10.3		
PCB-50	4.19	5.13		J
PCB-51	41.5	5.13		
PCB-52/69	319	10.3		
PCB-53	170	5.13		
PCB-54	23.5	5.13		
PCB-55	2.64	5.13		J
PCB-56/60	76.9	10.3		
PCB-57	3.76	5.13		J
PCB-58	ND	5.13	0.551	U
PCB-61/70	94.3	10.3		
PCB-62	ND	5.13	0.672	U
PCB-63	16.2	5.13		
PCB-65	ND	5.13	0.713	U
PCB-66/76	118	10.3		
PCB-67	7.15	5.13		
PCB-68	7.64	5.13		
PCB-73	10.6	5.13		
PCB-74	68.5	5.13		
PCB-77	12.6	5.13		
PCB-78	ND	5.13	0.550	U
PCB-79	1.92	5.13		J
PCB-80	ND	5.13	0.487	U
PCB-81	ND	5.13	0.744	UM
PCB-82	13.9	5.13		
PCB-83	ND	5.13	0.797	U
PCB-84/92	70.0	10.3		
PCB-85/116	21.7	10.3		
PCB-86	ND	5.13	1.36	U
PCB-87/117/125	39.1	15.4		
PCB-88/91	37.4	5.13		

RL - Reporting limit
DL - Sample specific estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-SCHU-T170524112607

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 12:01

Sample Data
Matrix: Water
Sample Size: 0.974 L

Laboratory Data
Lab Sample: 1700918-06 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 22:54 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	1.86	5.13		J
PCB-90/101	88.9	10.3		
PCB-93	ND	5.13	1.25	U
PCB-94	8.96	5.13		
PCB-95/98/102	116	15.4		
PCB-96	6.07	5.13		
PCB-97	29.1	5.13		
PCB-99	52.9	5.13		
PCB-100	5.74	5.13		
PCB-103	ND	5.22	5.22	UM
PCB-104	ND	5.13	0.847	U
PCB-105	31.5	5.13		
PCB-106/118	62.8	10.3		
PCB-107/109	6.41	10.3		J
PCB-108/112	ND	10.3	9.39	UM
PCB-110	109	5.13		
PCB-111/115	2.08	10.3		J
PCB-113	2.26	5.13		J
PCB-114	2.87	5.13		J
PCB-119	ND	5.13	3.99	UM
PCB-120	ND	5.13	0.671	U
PCB-121	ND	5.13	0.780	U
PCB-122	ND	5.13	1.35	U
PCB-123	1.37	5.13		J
PCB-124	3.19	5.13		J
PCB-126	ND	5.13	1.30	U
PCB-127	ND	5.13	1.30	U
PCB-128/162	8.91	10.3		J
PCB-129	2.87	5.13		J
PCB-130	ND	5.13	4.58	UM
PCB-131/133	4.58	10.3		J
PCB-132/161	17.2	10.3		
PCB-134/143	5.90	10.3		J
PCB-135	16.0	5.13		
PCB-136	11.6	5.13		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-137	2.80	5.13		J
PCB-138/163/164	65.6	15.4		
PCB-139/149	47.8	10.3		
PCB-140	ND	5.13	1.12	U
PCB-141	7.36	5.13		
PCB-142	ND	5.13	0.970	U
PCB-144	ND	5.13	1.02	U
PCB-145	ND	5.13	0.839	U
PCB-146/165	13.1	10.3		
PCB-147	5.25	5.13		
PCB-148	ND	5.13	1.11	U
PCB-150	ND	5.13	0.821	U
PCB-151	24.3	5.13		
PCB-152	ND	5.13	0.807	U
PCB-153	49.2	5.13		
PCB-154	3.21	5.13		J
PCB-155	ND	5.13	0.764	U
PCB-156	ND	5.13	5.05	UM
PCB-157	1.80	5.13		J
PCB-158/160	5.82	10.3		J
PCB-159	0.749	5.13		J
PCB-166	ND	5.13	0.612	U
PCB-167	1.94	5.13		J
PCB-168	ND	5.13	0.608	U
PCB-169	ND	5.13	0.603	U
PCB-170	10.5	5.13		
PCB-171	ND	5.13	1.95	UM
PCB-172	ND	5.13	1.67	UM
PCB-173	ND	5.13	0.535	U
PCB-174	ND	10.0	10.0	UM
PCB-175	ND	5.13	0.471	U
PCB-176	ND	5.13	1.50	UM
PCB-177	8.74	5.13		
PCB-178	6.81	5.13		
PCB-179	8.49	5.13		

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-SCHU-T170524112607

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 12:01

Sample Data
Matrix: Water
Sample Size: 0.974 L

Laboratory Data
Lab Sample: 1700918-06 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 22:54 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	26.1	5.13		
PCB-181	ND	5.13	0.446	U
PCB-182/187	23.2	10.3		
PCB-183	6.66	5.13		
PCB-184	ND	5.13	0.375	U
PCB-185	1.24	5.13		J
PCB-186	ND	5.13	0.345	U
PCB-188	ND	5.13	0.343	U
PCB-189	ND	5.13	0.276	U
PCB-190	2.68	5.13		J
PCB-191	ND	5.13	0.327	U
PCB-192	ND	5.13	0.349	U
PCB-193	ND	5.13	1.24	UM
PCB-194	8.27	5.13		
PCB-195	3.73	5.13		J
PCB-196/203	12.7	10.3		
PCB-197	ND	5.13	0.669	U
PCB-198	ND	5.13	0.975	U
PCB-199	14.3	5.13		
PCB-200	ND	5.13	0.718	U
PCB-201	2.13	5.13		J
PCB-202	3.85	5.13		J
PCB-204	ND	5.13	0.751	U
PCB-205	ND	5.13	0.763	U
PCB-206	7.62	5.13		
PCB-207	0.608	5.13		J
PCB-208	2.25	5.13		J
PCB-209	ND	5.13	1.56	UM
Total monoCB	276			
Total diCB	5030			
Total triCB	3980			
Total tetraCB	1990			
Total pentaCB	713			
Total hexaCB	296			
Total heptaCB	94.4			

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	45.0			
Total nonaCB	10.5			
DecaCB	ND		1.56	UM
Total PCB	12400			

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-SCHU-T170524112607

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 12:01

Sample Data
Matrix: Water
Sample Size: 0.974 L

Laboratory Data
Lab Sample: 1700918-06 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 22:54 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	55.2	5 -145	
	13C-PCB-3	53.6	5 -145	
	13C-PCB-4	65.3	5 -145	
	13C-PCB-11	67.9	5 -145	
	13C-PCB-9	59.8	5 -145	
	13C-PCB-19	49.6	5 -145	
	13C-PCB-28	78.5	5 -145	
	13C-PCB-32	57.8	5 -145	
	13C-PCB-37	89.4	5 -145	
	13C-PCB-47	76.4	5 -145	
	13C-PCB-52	72.1	5 -145	
	13C-PCB-54	63.4	5 -145	
	13C-PCB-70	83.6	5 -145	
	13C-PCB-77	85.9	10 -145	
	13C-PCB-80	83.9	10 -145	
	13C-PCB-81	84.1	10 -145	
	13C-PCB-95	81.4	10 -145	
	13C-PCB-97	85.7	10 -145	
	13C-PCB-101	83.9	10 -145	
	13C-PCB-104	77.0	10 -145	
	13C-PCB-105	60.9	10 -145	
	13C-PCB-114	61.3	10 -145	
	13C-PCB-118	88.9	10 -145	
	13C-PCB-123	90.1	10 -145	
	13C-PCB-126	63.3	10 -145	
	13C-PCB-127	63.5	10 -145	
	13C-PCB-138	83.8	10 -145	
	13C-PCB-141	83.0	10 -145	
	13C-PCB-153	81.4	10 -145	
	13C-PCB-155	96.0	10 -145	
	13C-PCB-156	87.4	10 -145	
	13C-PCB-157	90.2	10 -145	
	13C-PCB-159	87.1	10 -145	
	13C-PCB-167	87.6	10 -145	
	13C-PCB-169	93.3	10 -145	
	13C-PCB-170	93.7	10 -145	
	13C-PCB-180	91.1	10 -145	
	13C-PCB-188	83.7	10 -145	
	13C-PCB-189	96.2	10 -145	
	13C-PCB-194	82.5	10 -145	
	13C-PCB-202	83.7	10 -145	
	13C-PCB-206	131	10 -145	
	13C-PCB-208	129	10 -145	
	13C-PCB-209	160	10 -145	H
CRS	13C-PCB-79	91.2	10 -145	
	13C-PCB-178	95.9	10 -145	

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Client ID: OWS-SCHU-TJ70524112607 Filename: 170731E1 S:10 Acq:31-JUL-17 22:54:39 ConCal: ST170731E1-1

Lab ID: 1700918-06 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.974 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	8.02e+06	3.08	y 16:03	1.36	232		*	2.5	*	1.000	0.996-1.006
Mono	PCB-2	9.94e+04	3.10	y 18:28	1.30	2.76		*	2.5	*	0.988	0.983-0.993
Mono	PCB-3	1.48e+06	3.08	y 18:42	1.33	40.6		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	1.40e+08	1.57	y 20:04	1.32	4620		*	2.5	*	1.002	0.997-1.007
Di	PCB-7/9	3.56e+05	1.73	y 21:52	1.00	10.2		*	2.5	*	0.867	0.864-0.871
Di	PCB-6	1.21e+06	1.53	y 22:32	0.99	35.3		*	2.5	*	0.893	0.888-0.897
Di	PCB-5/8	4.43e+06	1.60	y 22:55	1.03	123		*	2.5	*	0.908	0.905-0.915
Di	PCB-14	*	*	n NotFound	1.16	*		2660	2.5	1.36	*	0.948-0.958
Di	PCB-11	5.18e+05	1.77	y 25:15	1.03	12.2		*	2.5	*	1.001	0.996-1.006
Di	PCB-12/13	1.15e+06	1.48	y 25:37	1.03	27.0		*	2.5	*	1.015	1.011-1.021
Di	PCB-15	9.95e+06	1.52	y 25:57	1.17	207		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	3.88e+07	1.04	y 24:13	1.52	1940		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n NotFound	2.51	*		1380	2.5	0.794	*	1.033-1.043
Tri	PCB-18	8.54e+06	1.05	y 25:53	1.11	325		*	2.5	*	0.954	0.949-0.959
Tri	PCB-17	6.60e+06	1.05	y 26:03	1.21	230		*	2.5	*	0.960	0.955-0.965
Tri	PCB-24/27	2.10e+07	1.03	y 26:37	1.61	549		*	2.5	*	0.981	0.976-0.986
Tri	PCB-16/32	1.26e+07	1.05	y 27:09	1.35	392		*	2.5	*	1.001	0.995-1.005
Tri	PCB-34	9.37e+04	1.14	y 27:57	0.98	7.72		*	2.5	*	0.960	0.955-0.965
Tri	PCB-23	*	*	n NotFound	0.93	*		1550	2.5	3.07	*	0.958-0.968
Tri	PCB-29	*	*	n NotFound	0.97	*		1550	2.5	2.95	*	0.967-0.977
Tri	PCB-26	1.13e+06	0.90	y 28:30	0.96	94.2		*	2.5	*	0.979	0.975-0.985
Tri	PCB-25	2.82e+05	0.93	y 28:39	0.87	26.1		*	2.5	*	0.985	0.980-0.990
Tri	PCB-31	1.74e+06	0.97	y 29:01	1.00	141		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	1.75e+06	0.92	y 29:06	0.93	151		*	2.5	*	1.000	0.995-1.005
Tri	PCB-20/21/33	4.13e+05	1.19	y 29:47	0.89	37.6		*	2.5	*	1.023	1.017-1.027
Tri	PCB-22	3.76e+05	0.90	y 30:10	0.93	32.6		*	2.5	*	1.037	1.032-1.042
Tri	PCB-36	*	*	n NotFound	0.94	*		1550	2.5	3.25	*	0.929-0.939
Tri	PCB-39	*	*	n NotFound	1.01	*		1550	2.5	3.03	*	0.943-0.953
Tri	PCB-38	2.23e+05	1.16	y 32:03	0.90	18.3		*	2.5	*	0.972	0.966-0.976
Tri	PCB-35	*	*	n NotFound	0.89	*		1550	2.5	3.42	*	0.982-0.992
Tri	PCB-37	5.58e+05	0.89	y 32:59	1.03	40.0		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-54	7.60e+05	0.87	y 27:59	1.17	23.5		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-50	1.08e+05	0.66	y 29:09	0.94	4.19		*	2.5	*	1.042	1.038-1.048
Tetra	PCB-53	5.03e+06	0.80	y 29:48	1.19	170		*	2.5	*	0.946	0.941-0.951
Tetra	PCB-51	1.29e+06	0.82	y 30:09	1.25	41.5		*	2.5	*	0.957	0.952-0.962
Tetra	PCB-45	1.48e+06	0.71	y 30:35	1.08	55.2		*	2.5	*	0.970	0.966-0.976
Tetra	PCB-46	4.49e+05	0.84	y 31:03	1.01	17.9		*	2.5	*	0.985	0.981-0.991

Integrations by:

Analyst: DB

Date: 8/3/17

Reviewed by: [signature] Date: 8/6/17

Client ID: OWS-SCHU-T170524112607 Filename: 170731E1 S:10 Acq:31 JUL 17 22:54:39 ConCal: ST170731E1-1

Lab ID: 1700918-06 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.974 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	1.10e+07	0.74	y 31:32	1.39	319		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-73	3.98e+05	0.84	y 31:41	1.51	10.6		*	2.5	*	1.005	1.000-1.010
Tetra	PCB-43/49	8.16e+06	0.73	y 31:50	1.20	274		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	6.17e+06	0.75	y 32:03	1.19	183		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-48/75	1.11e+06	0.82	y 32:09	1.39	28.3		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n NotF¶	1.31	*		1280	2.5	0.713	*	1.007-1.017
Tetra	PCB-62	*	*	n NotF¶	1.38	*		1280	2.5	0.672	*	1.011-1.021
Tetra	PCB-44	4.03e+06	0.74	y 32:50	0.96	148		*	2.5	*	1.026	1.020-1.030
Tetra	PCB-42/59	2.74e+06	0.77	y 33:04	1.32	73.2		*	2.5	*	1.033	1.027-1.037
Tetra	PCB-41/64/71/72	7.82e+06	0.73	y 33:39	1.38	200		*	2.5	*	1.051	1.046-1.056
Tetra	PCB-68	3.52e+05	0.69	y 33:54	1.63	7.64		*	2.5	*	1.059	1.054-1.064
Tetra	PCB-40	7.44e+05	0.75	y 34:08	0.91	28.8		*	2.5	*	1.066	1.061-1.071
Tetra	PCB-57	1.78e+05	0.83	y 34:29	1.23	3.76		*	2.5	*	0.970	0.965-0.975
Tetra	PCB-67	3.34e+05	0.68	y 34:47	1.21	7.15		*	2.5	*	0.978	0.974-0.984
Tetra	PCB-58	*	*	n NotF¶	1.28	*		1280	2.5	0.551	*	0.977-0.987
Tetra	PCB-63	8.16e+05	0.67	y 35:03	1.30	16.2		*	2.5	*	0.986	0.981-0.991
Tetra	PCB-74	3.47e+06	0.76	y 35:20	1.31	68.5		*	2.5	*	0.994	0.990-1.000
Tetra	PCB-61/70	4.49e+06	0.73	y 35:34	1.23	94.3		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	5.86e+06	0.76	y 35:46	1.29	118		*	2.5	*	1.006	1.000-1.010
Tetra	PCB-80	*	*	n NotF¶	1.49	*		1280	2.5	0.487	*	0.996-1.006
Tetra	PCB-55	1.42e+05	0.69	y 36:16	1.36	2.64		*	2.5	*	1.008	1.004-1.014
Tetra	PCB-56/60	3.79e+06	0.83	y 36:47	1.25	76.9		*	2.5	*	1.023	1.018-1.028
Tetra	PCB-79	1.01e+05	0.68	y 37:53	1.34	1.92		*	2.5	*	1.053	1.048-1.058
Tetra	PCB-78	*	*	n NotF¶	1.29	*		1280	2.5	0.550	*	0.982-0.992
Tetra	PCB-81	4.06e+04	0.73	y 39:04	1.38	0.744		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-77	6.91e+05	0.78	y 39:39	1.42	12.6		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	*	*	n NotF¶	1.47	*		1260	2.5	0.847	*	0.996-1.006
Penta	PCB-96	2.44e+05	1.57	y 33:56	1.29	6.07		*	2.5	*	1.039	1.034-1.044
Penta	PCB-103	1.93e+05	1.26	n 34:30	1.19	5.22		*	2.5	*	1.056	1.051-1.061
Penta	PCB-100	2.10e+05	1.64	y 34:51	1.18	5.74		*	2.5	*	1.067	1.061-1.071
Penta	PCB-94	2.95e+05	1.54	y 35:19	1.25	8.96		*	2.5	*	0.985	0.981-0.991
Penta	PCB-95/98/102	4.29e+06	1.54	y 35:51	1.40	116		*	2.5	*	1.000	0.994-1.004
Penta	PCB-93	*	*	n NotF¶	1.18	*		1260	2.5	1.25	*	0.998-1.008
Penta	PCB-88/91	1.30e+06	1.49	y 36:15	1.32	37.4		*	2.5	*	1.011	1.006-1.016
Penta	PCB-121	*	*	n NotF¶	1.89	*		1260	2.5	0.780	*	1.009-1.019
Penta	PCB-84/92	2.46e+06	1.52	y 37:09	1.30	70.0		*	2.5	*	0.990	0.985-0.995
Penta	PCB-89	6.18e+04	1.39	y 37:21	1.23	1.86		*	2.5	*	0.995	0.990-1.000

Analyst: DB

Date: 8/3/17

Client ID: OWS SCHU-T170524112607 Filename: 170731E1 S:10 Acq:31-JUL-17 22:54:39 ConCal: ST170731E1-1

Lab ID: 1700918-06 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.974 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	3.54e+06	1.58	y 37:32	1.47	88.9		*	2.5	*	1.000	0.995-1.005
Penta	PCB-113	1.01e+05	1.60	y 37:45	1.65	2.26		*	2.5	*	1.006	1.001-1.011
Penta	PCB-99	2.13e+06	1.54	y 37:53	1.48	52.9		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	2.17e+05	1.18	n 38:20	2.25	3.99		*	2.5	*	0.988	0.982-0.992
Penta	PCB-108/112	3.87e+05	1.89	n 38:29	1.71	9.39		*	2.5	*	0.991	0.986-0.996
Penta	PCB-83	*	*	n NotF	2.05	*		1260	2.5	0.797	*	0.990-1.000
Penta	PCB-97	1.10e+06	1.64	y 38:51	1.56	29.1		*	2.5	*	1.001	0.995-1.005
Penta	PCB 86	*	*	n NotF	1.20	*		1260	2.5	1.36	*	0.999-1.009
Penta	PCB-87/117/125	1.80e+06	1.52	y 39:08	1.91	39.1		*	2.5	*	1.008	1.002-1.012
Penta	PCB-111/115	1.12e+05	1.58	y 39:16	2.24	2.08		*	2.5	*	1.012	1.006-1.016
Penta	PCB-85/116	8.68e+05	1.46	y 39:22	1.66	21.7		*	2.5	*	1.014	1.010-1.020
Penta	PCB-120	*	*	n NotF	2.43	*		1260	2.5	0.671	*	1.016-1.026
Penta	PCB-110	5.18e+06	1.60	y 39:47	1.98	109		*	2.5	*	1.025	1.019-1.029
Penta	PCB-82	4.29e+05	1.50	y 40:24	0.91	13.9		*	2.5	*	0.976	0.971-0.981
Penta	PCB-124	1.72e+05	1.74	y 41:05	1.59	3.19		*	2.5	*	0.993	0.988-0.998
Penta	PCB-107/109	3.44e+05	1.69	y 41:15	1.58	6.41		*	2.5	*	0.997	0.991-1.001
Penta	PCB-123	7.34e+04	1.39	y 41:24	1.58	1.37		*	2.5	*	1.000	0.996-1.006
Penta	PCB-106/118	3.50e+06	1.54	y 41:35	1.57	62.8		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	9.48e+04	1.46	y 42:14	1.18	2.87		*	2.5	*	1.000	0.995-1.005
Penta	PCB-122	*	*	n NotF	1.07	*		1290	2.5	1.35	*	0.999-1.009
Penta	PCB-105	1.07e+06	1.57	y 43:06	1.23	31.5		*	2.5	*	1.000	0.995-1.005
Penta	PCB-127	*	*	n NotF	1.03	*		1290	2.5	1.30	*	0.995-1.005
Penta	PCB-126	*	*	n NotF	1.12	*		1290	2.5	1.30	*	0.995-1.005
Hexa	PCB-155	*	*	n NotF	1.31	*		1050	2.5	0.764	*	0.966-1.006
Hexa	PCB-150	*	*	n NotF	1.22	*		1050	2.5	0.821	*	1.030-1.040
Hexa	PCB-152	*	*	n NotF	1.24	*		1050	2.5	0.807	*	1.042-1.052
Hexa	PCB-145	*	*	n NotF	1.20	*		1050	2.5	0.839	*	1.054-1.064
Hexa	PCB-136	4.37e+05	1.41	y 39:35	1.28	11.6		*	2.5	*	1.068	1.063-1.073
Hexa	PCB-148	*	*	n NotF	0.91	*		1050	2.5	1.11	*	1.066-1.076
Hexa	PCB-154	9.40e+04	1.25	y 40:11	1.00	3.21		*	2.5	*	1.084	1.079-1.089
Hexa	PCB-151	6.53e+05	1.23	y 40:50	0.92	24.3		*	2.5	*	1.102	1.097-1.107
Hexa	PCB-135	4.15e+05	1.37	y 41:02	0.88	16.0		*	2.5	*	1.107	1.101-1.113
Hexa	PCB-144	*	*	n NotF	0.98	*		1050	2.5	1.02	*	1.105-1.116
Hexa	PCB-147	1.33e+05	1.28	y 41:16	0.87	5.25		*	2.5	*	1.113	1.108-1.120
Hexa	PCB-139/149	1.38e+06	1.28	y 41:32	0.98	47.8		*	2.5	*	1.121	1.115-1.127
Hexa	PCB-140	*	*	n NotF	0.89	*		1050	2.5	1.12	*	1.120-1.132
Hexa	PCB-134/143	2.32e+05	1.36	y 42:11	0.95	5.90		*	2.5	*	0.976	0.970-0.980

Analyst: DB

Date: 8/3/17

Client ID: OWS-SCHU-T170524112607 Filename: 170731E1 S:10 Acq:31-JUL-17 22:54:39 ConCal: ST170731E1-1

Lab ID: 1700918-06 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.974 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-131/133	1.79e+05	1.13	y	42:28	0.94	4.58		*	2.5	*	0.982	0.977-0.987
Hexa	PCB-142	*	*	n	NotF	0.91	*		1320	2.5	0.970	*	0.981-0.991
Hexa	PCB-146/165	6.35e+05	1.14	y	42:51	1.18	13.1		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	8.35e+05	1.37	y	43:07	1.17	17.2		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	2.46e+06	1.23	y	43:15	1.21	49.2		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-168	*	*	n	NotF	1.46	*		1320	2.5	0.608	*	1.000-1.010
Hexa	PCB-141	3.38e+05	1.22	y	43:59	1.30	7.36		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-137	1.31e+05	1.11	y	44:21	1.32	2.80		*	2.5	*	1.008	1.004-1.014
Hexa	PCB-130	1.73e+05	1.54	n	44:28	1.07	4.58		*	2.5	*	1.011	1.007-1.017
Hexa	PCB-138/163/164	3.49e+06	1.17	y	44:50	1.43	65.6		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-158/160	3.41e+05	1.13	y	45:04	1.57	5.82		*	2.5	*	1.006	1.001-1.011
Hexa	PCB-129	1.12e+05	1.06	y	45:19	1.05	2.87		*	2.5	*	1.011	1.007-1.017
Hexa	PCB-166	*	*	n	NotF	1.31	*		1320	2.5	0.612	*	0.988-0.998
Hexa	PCB-159	4.98e+04	1.29	y	46:10	1.42	0.749		*	2.5	*	1.001	0.995-1.005
Hexa	PCB-128/162	4.79e+05	1.29	y	46:23	1.15	8.91		*	2.5	*	1.006	1.002-1.012
Hexa	PCB-167	1.22e+05	1.37	y	46:47	1.32	1.94		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-156	3.29e+05	1.59	n	48:05	1.38	5.05		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-157	1.21e+05	1.25	y	48:20	1.38	1.80		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-169	*	*	n	NotF	1.27	*		1320	2.5	0.603	*	0.995-1.005
Hepta	PCB-188	*	*	n	NotF	1.78	*		1040	2.5	0.343	*	0.996-1.006
Hepta	PCB-184	*	*	n	NotF	1.63	*		1040	2.5	0.375	*	1.006-1.016
Hepta	PCB-179	4.11e+05	1.04	y	44:06	1.63	8.49		*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	7.88e+04	1.24	n	44:35	1.77	1.50		*	2.5	*	1.040	1.035-1.045
Hepta	PCB-186	*	*	n	NotF	1.77	*		1040	2.5	0.345	*	1.049-1.059
Hepta	PCB-178	2.59e+05	1.19	y	45:40	1.28	6.81		*	2.5	*	1.065	1.061-1.071
Hepta	PCB-175	*	*	n	NotF	1.30	*		1040	2.5	0.471	*	1.069-1.079
Hepta	PCB-182/187	9.68e+05	1.07	y	46:10	1.41	23.2		*	2.5	*	1.077	1.073-1.083
Hepta	PCB-183	3.00e+05	1.19	y	46:30	1.51	6.66		*	2.5	*	1.085	1.080-1.090
Hepta	PCB-185	5.08e+04	0.96	y	47:10	1.78	1.24		*	2.5	*	0.956	0.951-0.961
Hepta	PCB-174	3.93e+05	1.25	n	47:31	1.70	10.0		*	2.5	*	0.963	0.958-0.968
Hepta	PCB-181	*	*	n	NotF	1.80	*		1040	2.5	0.446	*	0.960-0.970
Hepta	PCB-177	3.18e+05	1.20	y	47:47	1.59	8.74		*	2.5	*	0.968	0.964-0.974
Hepta	PCB-171	8.25e+04	1.50	n	48:06	1.84	1.95		*	2.5	*	0.975	0.969-0.979
Hepta	PCB-173	*	*	n	NotF	1.50	*		1040	2.5	0.535	*	0.978-0.988
Hepta	PCB-172	6.78e+04	1.35	n	48:58	1.77	1.67		*	2.5	*	0.992	0.987-0.997
Hepta	PCB-192	*	*	n	NotF	2.29	*		1040	2.5	0.349	*	0.991-1.001
Hepta	PCB-180	1.09e+06	1.02	y	49:22	1.82	26.1		*	2.5	*	1.000	0.995-1.005

Analyst: DB

Date: 8/3/17

Client ID: OWS-SCHU-T170524112607 Filename: 170731E1 S:10 Acq:31-JUL-17 22:54:39 ConCal: ST170731E1-1

Lab ID: 1700918-06 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.974 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hepta	PCB-193	6.76e+04	1.61	n	49:34	2.38	1.24		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-191	*	*	n	NotF	2.44	*		1040	2.5	0.327	*	1.005-1.015
Hepta	PCB-170	4.22e+05	0.90	y	50:57	1.96	10.5		*	2.5	*	1.000	0.995-1.005
Hepta	PCB-190	1.49e+05	1.21	y	51:07	2.72	2.68		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-189	*	*	n	NotF	1.97	*		1040	2.5	0.276	*	0.995-1.005
Octa	PCB-202	1.03e+05	0.89	y	48:17	1.29	3.85		*	2.5	*	1.000	0.995-1.005
Octa	PCB-201	6.19e+04	1.00	y	48:46	1.40	2.13		*	2.5	*	1.010	1.005-1.015
Octa	PCB-204	*	*	n	NotF	1.32	*		880	2.5	0.751	*	1.009-1.019
Octa	PCB-197	*	*	n	NotF	1.48	*		880	2.5	0.669	*	1.015-1.025
Octa	PCB-200	*	*	n	NotF	1.38	*		880	2.5	0.718	*	1.034-1.044
Octa	PCB-198	*	*	n	NotF	1.02	*		880	2.5	0.975	*	1.063-1.073
Octa	PCB-199	2.78e+05	1.00	y	51:42	0.94	14.3		*	2.5	*	1.071	1.065-1.075
Octa	PCB-196/203	2.81e+05	0.92	y	51:59	1.07	12.7		*	2.5	*	1.077	1.071-1.081
Octa	PCB-195	5.86e+04	0.78	y	53:13	1.01	3.73		*	2.5	*	0.984	0.979-0.989
Octa	PCB-194	1.43e+05	0.79	y	54:06	1.11	8.27		*	2.5	*	1.000	0.995-1.005
Octa	PCB-205	*	*	n	NotF	1.43	*		1090	2.5	0.763	*	1.000-1.010
Nona	PCB-208	1.02e+05	1.25	y	53:22	1.16	2.25		*	2.5	*	1.000	0.995-1.005
Nona	PCB-207	2.81e+04	1.31	y	53:41	1.18	0.608		*	2.5	*	1.006	1.001-1.011
Nona	PCB-206	2.29e+05	1.41	y	55:39	0.98	7.62		*	2.5	*	1.000	0.995-1.005
Deca	PCB-209	7.98e+04	1.45	n	56:59	1.56	1.56		*	2.5	*	1.000	0.995-1.005

Analyst: DB

Date: 8/3/17

Client ID: OWS-SCHU-T170524112607 Filename: 170731E1 S:10 Acq:31-JUL-17 22:54:39 ConCal: ST170731E1-1

Lab ID: 1700918-06 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.9739 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	9.61e+06	3.08	y	16:03	1.33	275.691	
Total Di-PCB	1.58e+08	1.57	y	20:04	1.05	5031.84	
Total Tri-PCB	8.75e+07	1.04	y	24:13	1.54	3436.03	
Total Tri-PCB	6.56e+06	1.14	y	27:57	0.94	548.011	Sum:3984.04
Total Tetra-PCB	7.16e+07	0.87	y	27:59	1.25	1988.23	
Total Penta-PCB	2.82e+07	1.57	y	33:56	1.47	678.916	
Total Penta-PCB	1.16e+06	1.46	y	42:14	1.13	34.3522	Sum:713.269
Total Hexa-PCB	3.11e+06	1.41	y	39:35	1.05	108.239	
Total Hexa-PCB	9.53e+06	1.36	y	42:11	1.23	187.805	Sum:296.044
Total Hepta-PCB	3.97e+06	1.04	y	44:06	1.72	94.3896	
Total Octa-PCB	7.24e+05	0.89	y	48:17	1.22	33.0036	
Total Octa-PCB	2.01e+05	0.78	y	53:13	1.18	11.9957	Sum:44.9993
Total Nona-PCB	3.59e+05	1.25	y	53:22	1.12	10.4783	
Total Deca-PCB	7.98e+04	1.45	n	56:59	1.56	1.56264	

Total PCB Conc:12485.1655310

Integrations by Analyst: DB

Date: 8/3/17

Client ID: OWS-SCHU-T170524112607 Filename: 170731E1 S:10 Acq:31-JUL-17 22:54:39 ConCal: ST170731E1-1
Lab ID: 1700918-06 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:0.9739 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	5.21e+07	3.08	y	0.70	16:03	0.619	0.617	0.623	1130	55.2
13C-PCB-3	5.66e+07	3.15	y	0.79	18:41	0.720	0.717	0.725	1100	53.6
13C-PCB-4	4.73e+07	1.58	y	0.54	20:02	0.772	0.769	0.777	1340	65.3
13C-PCB-9	7.14e+07	1.55	y	0.89	21:50	0.842	0.838	0.846	1230	59.8
13C-PCB-11	8.49e+07	1.55	y	0.93	25:14	0.973	0.968	0.978	1390	67.9
13C-PCB-19	2.71e+07	1.04	y	0.41	24:12	0.933	0.928	0.938	1020	49.6
13C-PCB-28	2.55e+07	0.99	y	1.04	29:06	1.003	0.999	1.009	1610	78.5
13C-PCB-32	4.87e+07	1.04	y	0.63	27:08	1.046	1.041	1.051	1190	57.8
13C-PCB-37	2.78e+07	1.09	y	1.00	32:59	1.137	1.132	1.144	1840	89.4
13C-PCB-47	5.82e+07	0.78	y	0.80	32:01	0.870	0.867	0.875	1570	76.4
13C-PCB-52	5.11e+07	0.78	y	0.74	31:31	0.857	0.853	0.861	1480	72.1
13C-PCB-54	5.66e+07	0.80	y	0.94	27:58	0.760	0.757	0.765	1300	63.4
13C-PCB-70	7.93e+07	0.81	y	0.99	35:33	0.966	0.961	0.971	1720	83.6
13C-PCB-77	7.94e+07	0.80	y	0.97	39:39	1.078	1.073	1.083	1760	85.9
13C-PCB-80	8.08e+07	0.81	y	1.01	35:58	0.978	0.973	0.983	1720	83.9
13C-PCB-81	8.12e+07	0.79	y	1.01	39:04	1.062	1.057	1.067	1730	84.1
13C-PCB-95	5.40e+07	1.61	y	0.80	35:51	0.913	0.908	0.918	1670	81.4
13C-PCB-97	4.94e+07	1.59	y	0.70	38:49	0.989	0.984	0.994	1760	85.7
13C-PCB-101	5.58e+07	1.62	y	0.81	37:32	0.956	0.951	0.961	1720	83.9
13C-PCB-104	6.39e+07	1.63	y	1.01	32:40	0.832	0.828	0.836	1580	77.0
13C-PCB-105	5.69e+07	1.53	y	1.18	43:05	0.929	0.924	0.934	1250	60.9
13C-PCB-114	5.75e+07	1.55	y	1.18	42:13	0.910	0.905	0.915	1260	61.3
13C-PCB-118	7.28e+07	1.58	y	0.99	41:34	1.059	1.054	1.064	1830	88.9
13C-PCB-123	6.96e+07	1.57	y	0.94	41:23	1.054	1.049	1.059	1850	90.1
13C-PCB-126	5.84e+07	1.55	y	1.17	45:19	0.977	0.972	0.982	1300	63.3
13C-PCB-127	6.35e+07	1.54	y	1.26	43:25	0.936	0.931	0.941	1300	63.5
13C-PCB-138	7.66e+07	1.27	y	1.15	44:49	0.967	0.961	0.971	1720	83.8
13C-PCB-141	7.26e+07	1.28	y	1.11	43:59	0.949	0.943	0.953	1700	83.0
13C-PCB-153	8.49e+07	1.27	y	1.32	43:14	0.932	0.927	0.937	1670	81.4
13C-PCB-155	6.02e+07	1.31	y	0.76	37:04	0.944	0.939	0.949	1970	96.0
13C-PCB-156	9.71e+07	1.28	y	1.40	48:04	1.037	1.032	1.042	1800	87.4
13C-PCB-157	9.97e+07	1.29	y	1.40	48:20	1.042	1.038	1.048	1850	90.2
13C-PCB-159	9.59e+07	1.29	y	1.39	46:06	0.994	0.989	0.999	1790	87.1
13C-PCB-167	9.77e+07	1.27	y	1.41	46:47	1.009	1.004	1.014	1800	87.6
13C-PCB-169	1.02e+08	1.26	y	1.38	50:32	1.090	1.085	1.095	1920	93.3
13C-PCB-170	4.20e+07	0.47	y	0.83	50:56	1.103	1.093	1.103	1930	93.7
13C-PCB-180	4.72e+07	0.46	y	0.96	49:21	1.069	1.059	1.069	1870	91.1
13C-PCB-188	6.11e+07	0.46	y	1.36	42:52	0.928	0.919	0.929	1720	83.7
13C-PCB-189	6.00e+07	0.46	y	1.16	52:32	1.137	1.125	1.137	1980	96.2
13C-PCB-194	3.20e+07	0.88	y	0.74	54:06	0.995	0.990	1.000	1690	82.5
13C-PCB-202	4.26e+07	0.89	y	0.95	48:17	1.045	1.036	1.046	1720	83.7
13C-PCB-206	6.27e+07	0.78	y	0.91	55:39	1.024	1.019	1.029	2690	131
13C-PCB-208	8.05e+07	0.76	y	1.19	53:21	0.981	0.977	0.987	2640	129
13C-PCB-209	6.72e+07	1.20	y	0.80	56:58	1.048	1.044	1.054	3290	160

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	8.90e+07	0.79	y	1.02	37:50	1.029	1.024	1.033	1870	91.2
13C-PCB-178	4.65e+07	0.46	y	0.90	45:40	0.985	0.980	0.989	1970	95.9

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	8.90e+07	0.79	y	1.01	37:50	0.968	0.963	0.973	2230	108
13C-PCB-178	4.65e+07	0.46	y	0.94	45:40	0.925	0.920	0.930	2160	105

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.34e+08	1.56	y	1.00	25:56	2050
13C-PCB-31	3.11e+07	0.99	y	1.00	29:00	2050
13C-PCB-60	9.53e+07	0.81	y	1.00	36:47	2050
13C-PCB-111	8.25e+07	1.59	y	1.00	39:16	2050
13C-PCB-128	7.92e+07	1.27	y	1.00	46:22	2050
13C-PCB-182	5.38e+07	0.46	y	1.00	46:11	2050
13C-PCB-205	5.27e+07	0.87	y	1.00	54:22	2050

Analyst: DB

Date: 8/11/17

Sample ID: OWS-THIS-T170524112744

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 12:53

Sample Data
Matrix: Water
Sample Size: 0.949 L

Laboratory Data
Lab Sample: 1700918-07 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 23:59 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	86.4	5.27		
PCB-2	ND	5.27	0.885	U
PCB-3	11.8	5.27		
PCB-4/10	2610	10.5		
PCB-5/8	38.3	10.5		
PCB-6	10.7	5.27		
PCB-7/9	ND	10.5	1.76	U
PCB-11	ND	5.27	1.67	U
PCB-12/13	7.12	10.5		J
PCB-14	ND	5.27	1.48	U
PCB-15	86.2	5.27		
PCB-16/32	220	10.5		
PCB-17	125	5.27		
PCB-18	227	5.27		
PCB-19	938	5.27		
PCB-20/21/33	19.4	15.8		
PCB-22	20.6	5.27		
PCB-23	ND	5.27	3.35	U
PCB-24/27	244	10.5		
PCB-25	13.1	5.27		
PCB-26	36.9	5.27		
PCB-28	87.0	5.27		
PCB-29	ND	5.27	3.23	U
PCB-30	ND	5.27	0.690	U
PCB-31	70.2	5.27		
PCB-34	ND	5.27	3.21	U
PCB-35	ND	5.27	3.44	U
PCB-36	ND	5.27	3.26	U
PCB-37	20.3	5.27		
PCB-38	7.94	5.27		
PCB-39	ND	5.27	3.04	U
PCB-40	25.1	5.27		
PCB-41/64/71/72	138	21.1		
PCB-42/59	54.4	10.5		
PCB-43/49	148	10.5		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-44	125	5.27		
PCB-45	44.6	5.27		
PCB-46	ND	12.3	12.3	UM
PCB-47	86.1	5.27		
PCB-48/75	21.3	10.5		
PCB-50	1.85	5.27		J
PCB-51	22.5	5.27		
PCB-52/69	168	10.5		
PCB-53	79.4	5.27		
PCB-54	10.9	5.27		
PCB-55	ND	5.27	0.738	U
PCB-56/60	52.9	10.5		
PCB-57	2.20	5.27		J
PCB-58	ND	5.27	0.774	U
PCB-61/70	61.7	10.5		
PCB-62	ND	5.27	0.906	U
PCB-63	8.00	5.27		
PCB-65	ND	5.27	0.956	U
PCB-66/76	75.5	10.5		
PCB-67	4.06	5.27		J
PCB-68	3.24	5.27		J
PCB-73	3.65	5.27		J
PCB-74	43.0	5.27		
PCB-77	6.39	5.27		
PCB-78	ND	5.27	0.726	U
PCB-79	1.56	5.27		J
PCB-80	ND	5.27	0.679	U
PCB-81	ND	5.27	0.552	UM
PCB-82	9.60	5.27		
PCB-83	ND	5.27	0.904	U
PCB-84/92	36.3	10.5		
PCB-85/116	14.2	10.5		
PCB-86	ND	5.27	1.54	U
PCB-87/117/125	26.1	15.8		
PCB-88/91	19.0	5.27		

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-THIS-T170524112744

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 12:53

Sample Data
Matrix: Water
Sample Size: 0.949 L

Laboratory Data
Lab Sample: 1700918-07 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 23:59 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	2.05	5.27		J
PCB-90/101	56.7	10.5		
PCB-93	2.25	5.27		J
PCB-94	3.33	5.27		J
PCB-95/98/102	65.7	15.8		
PCB-96	2.94	5.27		J
PCB-97	20.3	5.27		
PCB-99	33.6	5.27		
PCB-100	2.54	5.27		J
PCB-103	1.87	5.27		J
PCB-104	ND	5.27	0.940	U
PCB-105	18.0	5.27		
PCB-106/118	36.1	10.5		
PCB-107/109	3.77	10.5		J
PCB-108/112	5.18	10.5		J
PCB-110	69.2	5.27		
PCB-111/115	2.40	10.5		J
PCB-113	ND	5.27	0.976	U
PCB-114	2.04	5.27		J
PCB-119	ND	5.27	2.27	UM
PCB-120	ND	5.27	0.761	U
PCB-121	ND	5.27	0.886	U
PCB-122	ND	5.27	1.23	U
PCB-123	ND	5.27	0.828	U
PCB-124	ND	5.27	1.28	UM
PCB-126	ND	5.27	1.18	U
PCB-127	ND	5.27	1.18	U
PCB-128/162	4.54	10.5		J
PCB-129	1.54	5.27		J
PCB-130	2.78	5.27		J
PCB-131/133	1.74	10.5		J
PCB-132/161	8.74	10.5		J
PCB-134/143	2.57	10.5		J
PCB-135	7.34	5.27		
PCB-136	5.03	5.27		J

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-137	1.75	5.27		J
PCB-138/163/164	29.6	15.8		
PCB-139/149	28.1	10.5		
PCB-140	ND	5.27	0.887	U
PCB-141	3.45	5.27		J
PCB-142	ND	5.27	0.888	U
PCB-144	1.58	5.27		J
PCB-145	ND	5.27	0.659	U
PCB-146/165	5.64	10.5		J
PCB-147	2.16	5.27		J
PCB-148	ND	5.27	0.871	U
PCB-150	ND	5.27	0.645	U
PCB-151	9.80	5.27		
PCB-152	ND	5.27	0.634	U
PCB-153	23.6	5.27		
PCB-154	ND	5.27	0.792	U
PCB-155	ND	5.27	0.602	U
PCB-156	2.41	5.27		J
PCB-157	ND	5.27	0.525	U
PCB-158/160	2.61	10.5		J
PCB-159	ND	5.27	0.506	U
PCB-166	ND	5.27	0.552	U
PCB-167	ND	5.27	0.517	U
PCB-168	ND	5.27	0.557	U
PCB-169	ND	5.27	0.535	U
PCB-170	3.07	5.27		J
PCB-171	1.32	5.27		J
PCB-172	ND	5.27	0.491	U
PCB-173	ND	5.27	0.580	U
PCB-174	ND	5.27	0.509	U
PCB-175	ND	5.27	0.513	U
PCB-176	ND	5.27	0.378	U
PCB-177	3.11	5.27		J
PCB-178	2.43	5.27		J
PCB-179	ND	5.27	2.46	UM

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-THIS-T170524112744

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 12:53

Sample Data
Matrix: Water
Sample Size: 0.949 L

Laboratory Data
Lab Sample: 1700918-07 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 23:59 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	7.78	5.27		
PCB-181	ND	5.27	3.30	UM
PCB-182/187	6.65	10.5		J
PCB-183	ND	5.27	1.53	UM
PCB-184	ND	5.27	0.409	U
PCB-185	ND	5.27	0.488	U
PCB-186	ND	5.27	0.376	U
PCB-188	ND	5.27	0.376	U
PCB-189	ND	5.27	0.302	U
PCB-190	0.733	5.27		J
PCB-191	ND	5.27	0.356	U
PCB-192	ND	5.27	0.380	U
PCB-193	0.762	5.27		J
PCB-194	2.14	5.27		J
PCB-195	ND	5.27	0.883	U
PCB-196/203	3.73	10.5		J
PCB-197	ND	5.27	0.711	U
PCB-198	ND	5.27	1.04	U
PCB-199	3.70	5.27		J
PCB-200	ND	5.27	0.763	U
PCB-201	ND	5.27	0.751	U
PCB-202	ND	5.27	0.814	U
PCB-204	ND	5.27	0.798	U
PCB-205	ND	5.27	0.622	U
PCB-206	1.69	5.27		J
PCB-207	ND	5.27	0.252	U
PCB-208	ND	5.27	0.573	UM
PCB-209	ND	5.27	0.493	UM
Total monoCB	98.2			
Total diCB	2750			
Total triCB	2030			
Total tetraCB	1190			
Total pentaCB	433			
Total hexaCB	145			
Total heptaCB	25.9			

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	9.57			
Total nonaCB	1.69			
DecaCB	ND		0.493	UM
Total PCB	6680			

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-THIS-T170524112744

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 12:53

Sample Data
Matrix: Water
Sample Size: 0.949 L

Laboratory Data
Lab Sample: 1700918-07 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 31-Jul-17 23:59 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	77.2	5 -145	
	13C-PCB-3	73.7	5 -145	
	13C-PCB-4	94.3	5 -145	
	13C-PCB-11	83.9	5 -145	
	13C-PCB-9	79.8	5 -145	
	13C-PCB-19	66.5	5 -145	
	13C-PCB-28	76.6	5 -145	
	13C-PCB-32	65.4	5 -145	
	13C-PCB-37	87.5	5 -145	
	13C-PCB-47	84.3	5 -145	
	13C-PCB-52	81.5	5 -145	
	13C-PCB-54	78.4	5 -145	
	13C-PCB-70	85.6	5 -145	
	13C-PCB-77	95.4	10 -145	
	13C-PCB-80	88.8	10 -145	
	13C-PCB-81	92.8	10 -145	
	13C-PCB-95	82.7	10 -145	
	13C-PCB-97	86.3	10 -145	
	13C-PCB-101	85.2	10 -145	
	13C-PCB-104	79.9	10 -145	
	13C-PCB-105	59.7	10 -145	
	13C-PCB-114	60.7	10 -145	
	13C-PCB-118	93.9	10 -145	
	13C-PCB-123	94.3	10 -145	
	13C-PCB-126	62.0	10 -145	
	13C-PCB-127	61.4	10 -145	
	13C-PCB-138	87.3	10 -145	
	13C-PCB-141	85.4	10 -145	
	13C-PCB-153	85.4	10 -145	
	13C-PCB-155	96.7	10 -145	
	13C-PCB-156	91.3	10 -145	
	13C-PCB-157	94.6	10 -145	
	13C-PCB-159	90.9	10 -145	
	13C-PCB-167	92.4	10 -145	
	13C-PCB-169	96.5	10 -145	

	Labeled Standard	%R	LCL-UCL	Qualifiers
	13C-PCB-170	96.0	10 -145	
	13C-PCB-180	94.5	10 -145	
	13C-PCB-188	85.2	10 -145	
	13C-PCB-189	98.0	10 -145	
	13C-PCB-194	88.7	10 -145	
	13C-PCB-202	82.6	10 -145	
	13C-PCB-206	127	10 -145	
	13C-PCB-208	126	10 -145	
	13C-PCB-209	158	10 -145	H
CRS	13C-PCB-79	99.4	10 -145	
	13C-PCB-178	99.6	10 -145	

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Client ID: OWS-THIS-T170524112744 Filename: 170731E1 S:11 Acq:31-JUL-17 23:59:44 ConCal: ST170731E1-1

Lab ID: 1700918-07 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.949 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	3.94e+06	2.94	y	16:03	1.36	86.4		*	2.5	*	1.000	0.996-1.006
Mono	PCB-2	*	*	n	NotF¶	1.30	*		1250	2.5	0.885	*	0.983-0.993
Mono	PCB-3	5.59e+05	2.95	y	18:42	1.33	11.8		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	1.08e+08	1.58	y	20:04	1.32	2610		*	2.5	*	1.002	0.997-1.007
Di	PCB-7/9	*	*	n	NotF¶	1.00	*		3350	2.5	1.76	*	0.864-0.871
Di	PCB-6	4.61e+05	1.43	y	22:31	0.99	10.7		*	2.5	*	0.892	0.888-0.897
Di	PCB-5/8	1.73e+06	1.46	y	22:55	1.03	38.3		*	2.5	*	0.908	0.905-0.915
Di	PCB-14	*	*	n	NotF¶	1.16	*		3350	2.5	1.48	*	0.948-0.958
Di	PCB-11	*	*	n	NotF¶	1.03	*		3350	2.5	1.67	*	0.996-1.006
Di	PCB-12/13	3.53e+05	1.40	y	25:36	1.03	7.12		*	2.5	*	1.015	1.011-1.021
Di	PCB-15	4.84e+06	1.64	y	25:56	1.17	86.2		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	2.37e+07	1.02	y	24:13	1.52	938		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n	NotF¶	2.51	*		1540	2.5	0.690	*	1.033-1.043
Tri	PCB-18	6.36e+06	1.02	y	25:52	1.11	227		*	2.5	*	0.953	0.949-0.959
Tri	PCB-17	3.82e+06	1.07	y	26:03	1.21	125		*	2.5	*	0.960	0.955-0.965
Tri	PCB-24/27	9.97e+06	1.02	y	26:36	1.61	244		*	2.5	*	0.980	0.976-0.986
Tri	PCB-16/32	7.55e+06	1.05	y	27:08	1.35	220		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	*	*	n	NotF¶	0.98	*		1670	2.5	3.21	*	0.955-0.965
Tri	PCB-23	*	*	n	NotF¶	0.93	*		1670	2.5	3.35	*	0.958-0.968
Tri	PCB-29	*	*	n	NotF¶	0.97	*		1670	2.5	3.23	*	0.967-0.977
Tri	PCB-26	4.53e+05	0.89	y	28:29	0.96	36.9		*	2.5	*	0.979	0.975-0.985
Tri	PCB-25	1.45e+05	1.03	y	28:39	0.87	13.1		*	2.5	*	0.985	0.980-0.990
Tri	PCB-31	8.90e+05	0.89	y	29:00	1.00	70.2		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	1.03e+06	0.89	y	29:07	0.93	87.0		*	2.5	*	1.001	0.995-1.005
Tri	PCB-20/21/33	2.19e+05	1.17	y	29:47	0.89	19.4		*	2.5	*	1.023	1.017-1.027
Tri	PCB-22	2.44e+05	0.93	y	30:09	0.93	20.6		*	2.5	*	1.036	1.032-1.042
Tri	PCB-36	*	*	n	NotF¶	0.94	*		1670	2.5	3.26	*	0.929-0.939
Tri	PCB-39	*	*	n	NotF¶	1.01	*		1670	2.5	3.04	*	0.943-0.953
Tri	PCB-38	9.95e+04	1.19	y	32:02	0.90	7.94		*	2.5	*	0.971	0.966-0.976
Tri	PCB-35	*	*	n	NotF¶	0.89	*		1670	2.5	3.44	*	0.982-0.992
Tri	PCB-37	2.91e+05	0.91	y	32:59	1.03	20.3		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-54	4.01e+05	0.73	y	27:59	1.17	10.9		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-50	5.43e+04	0.67	y	29:09	0.94	1.85		*	2.5	*	1.042	1.038-1.048
Tetra	PCB-53	2.45e+06	0.73	y	29:48	1.19	79.4		*	2.5	*	0.946	0.941-0.951
Tetra	PCB-51	7.29e+05	0.74	y	30:08	1.25	22.5		*	2.5	*	0.956	0.952-0.962
Tetra	PCB-45	1.24e+06	0.85	y	30:34	1.08	44.6		*	2.5	*	0.970	0.966-0.976
Tetra	PCB-46	3.22e+05	1.06	n	31:03	1.01	12.3		*	2.5	*	0.985	0.981-0.991

Integrations by:

Analyst: DB

Date: 8/2/17

Reviewed by: [illegible] Date: 8/4/17

Client ID: OWS-THIS-T170524112744 Filename: 170731E1 S:11 Acq:31-JUL-17 23:59:44 ConCal: ST170731E1-1

Lab ID: 1700918-07 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.949 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	6.04e+06	0.77	y	31:31	1.39	168		*	2.5	*	1.000	0.996-1.006
Tetra	PCB-73	1.42e+05	0.68	y	31:40	1.51	3.65		*	2.5	*	1.005	1.000-1.010
Tetra	PCB-43/49	4.59e+06	0.75	y	31:49	1.20	148		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	2.94e+06	0.75	y	32:02	1.19	86.1		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-48/75	8.47e+05	0.74	y	32:09	1.39	21.3		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n	NotF¶	1.31	*		1680	2.5	0.956	*	1.007-1.017
Tetra	PCB-62	*	*	n	NotF¶	1.38	*		1680	2.5	0.906	*	1.011-1.021
Tetra	PCB-44	3.44e+06	0.72	y	32:50	0.96	125		*	2.5	*	1.026	1.020-1.030
Tetra	PCB-42/59	2.07e+06	0.79	y	33:03	1.32	54.4		*	2.5	*	1.032	1.027-1.037
Tetra	PCB-41/64/71/72	5.49e+06	0.77	y	33:39	1.38	138		*	2.5	*	1.051	1.046-1.056
Tetra	PCB-68	1.52e+05	0.79	y	33:54	1.63	3.24		*	2.5	*	1.059	1.054-1.064
Tetra	PCB-40	6.56e+05	0.85	y	34:07	0.91	25.1		*	2.5	*	1.066	1.061-1.071
Tetra	PCB-57	9.80e+04	0.82	y	34:29	1.23	2.20		*	2.5	*	0.970	0.965-0.975
Tetra	PCB-67	1.79e+05	0.88	y	34:47	1.21	4.06		*	2.5	*	0.979	0.974-0.984
Tetra	PCB-58	*	*	n	NotF¶	1.28	*		1680	2.5	0.774	*	0.977-0.987
Tetra	PCB-63	3.79e+05	0.74	y	35:03	1.30	8.00		*	2.5	*	0.986	0.981-0.991
Tetra	PCB-74	2.05e+06	0.77	y	35:21	1.31	43.0		*	2.5	*	0.995	0.990-1.000
Tetra	PCB-61/70	2.77e+06	0.71	y	35:33	1.23	61.7		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	3.54e+06	0.78	y	35:46	1.29	75.5		*	2.5	*	1.007	1.000-1.010
Tetra	PCB-80	*	*	n	NotF¶	1.49	*		1680	2.5	0.679	*	0.996-1.006
Tetra	PCB-55	*	*	n	NotF¶	1.36	*		1680	2.5	0.738	*	1.004-1.014
Tetra	PCB-56/60	2.54e+06	0.78	y	36:46	1.25	52.9		*	2.5	*	1.023	1.018-1.028
Tetra	PCB-79	8.03e+04	0.79	y	37:52	1.34	1.56		*	2.5	*	1.053	1.048-1.058
Tetra	PCB-78	*	*	n	NotF¶	1.29	*		1680	2.5	0.726	*	0.982-0.992
Tetra	PCB-81	3.06e+04	0.67	y	39:04	1.38	0.552		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-77	3.58e+05	0.77	y	39:39	1.42	6.39		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	*	*	n	NotF¶	1.47	*		1420	2.5	0.940	*	0.996-1.006
Penta	PCB-96	1.21e+05	1.74	y	33:57	1.29	2.94		*	2.5	*	1.039	1.034-1.044
Penta	PCB-103	7.07e+04	1.36	y	34:30	1.19	1.87		*	2.5	*	1.056	1.051-1.061
Penta	PCB-100	9.53e+04	1.69	y	34:50	1.18	2.54		*	2.5	*	1.066	1.061-1.071
Penta	PCB-94	1.10e+05	1.41	y	35:20	1.25	3.33		*	2.5	*	0.986	0.981-0.991
Penta	PCB-95/98/102	2.43e+06	1.47	y	35:50	1.40	65.7		*	2.5	*	1.000	0.994-1.004
Penta	PCB-93	6.99e+04	1.61	y	35:57	1.18	2.25		*	2.5	*	1.003	0.998-1.008
Penta	PCB-88/91	6.59e+05	1.47	y	36:15	1.32	19.0		*	2.5	*	1.012	1.006-1.016
Penta	PCB-121	*	*	n	NotF¶	1.89	*		1420	2.5	0.886	*	1.009-1.019
Penta	PCB-84/92	1.28e+06	1.40	y	37:09	1.30	36.3		*	2.5	*	0.990	0.985-0.995
Penta	PCB-89	6.85e+04	1.42	y	37:20	1.23	2.05		*	2.5	*	0.995	0.990-1.000

Analyst: DB

Date: 8/2/17

Client ID: OWS-THIS-T170524112744 Filename: 170731E1 S:11 Acq:31-JUL-17 23:59:44 ConCal: STl70731E1-1

Lab ID: 1700918-07 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.949 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	2.26e+06	1.56	y	37:32	1.47	56.7		*	2.5	*	1.000	0.995-1.005
Penta	PCB-113	*	*	n	NotF¶	1.65	*		1420	2.5	0.976	*	1.001-1.011
Penta	PCB-99	1.36e+06	1.46	y	37:52	1.48	33.6		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	1.23e+05	1.11	n	38:19	2.25	2.27		*	2.5	*	0.987	0.982-0.992
Penta	PCB-108/112	2.13e+05	1.68	y	38:29	1.71	5.18		*	2.5	*	0.991	0.986-0.996
Penta	PCB-83	*	*	n	NotF¶	2.05	*		1420	2.5	0.904	*	0.990-1.000
Penta	PCB-97	7.58e+05	1.51	y	38:50	1.56	20.3		*	2.5	*	1.000	0.995-1.005
Penta	PCB-86	*	*	n	NotF¶	1.20	*		1420	2.5	1.54	*	0.999-1.009
Penta	PCB-87/117/125	1.19e+06	1.70	y	39:07	1.91	26.1		*	2.5	*	1.008	1.002-1.012
Penta	PCB-111/115	1.28e+05	1.59	y	39:15	2.24	2.40		*	2.5	*	1.011	1.006-1.016
Penta	PCB-85/116	5.63e+05	1.63	y	39:23	1.66	14.2		*	2.5	*	1.015	1.010-1.020
Penta	PCB-120	*	*	n	NotF¶	2.43	*		1420	2.5	0.761	*	1.016-1.026
Penta	PCB-110	3.27e+06	1.59	y	39:47	1.98	69.2		*	2.5	*	1.025	1.019-1.029
Penta	PCB-82	3.05e+05	1.40	y	40:23	0.91	9.60		*	2.5	*	0.976	0.971-0.981
Penta	PCB-124	7.11e+04	3.11	n	41:04	1.59	1.28		*	2.5	*	0.993	0.988-0.998
Penta	PCB-107/109	2.09e+05	1.41	y	41:14	1.58	3.77		*	2.5	*	0.997	0.991-1.001
Penta	PCB-123	*	*	n	NotF¶	1.58	*		1420	2.5	0.828	*	0.996-1.006
Penta	PCB-106/118	2.09e+06	1.42	y	41:35	1.57	36.1		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	6.49e+04	1.52	y	42:11	1.18	2.04		*	2.5	*	1.000	0.995-1.005
Penta	PCB-122	*	*	n	NotF¶	1.07	*		1120	2.5	1.23	*	0.999-1.009
Penta	PCB-105	5.83e+05	1.61	y	43:06	1.23	18.0		*	2.5	*	1.001	0.995-1.005
Penta	PCB-127	*	*	n	NotF¶	1.03	*		1120	2.5	1.18	*	0.995-1.005
Penta	PCB-126	*	*	n	NotF¶	1.12	*		1120	2.5	1.18	*	0.995-1.005
Hexa	PCB-155	*	*	n	NotF¶	1.31	*		822	2.5	0.602	*	0.966-1.006
Hexa	PCB-150	*	*	n	NotF¶	1.22	*		822	2.5	0.645	*	1.030-1.040
Hexa	PCB-152	*	*	n	NotF¶	1.24	*		822	2.5	0.634	*	1.042-1.052
Hexa	PCB-145	*	*	n	NotF¶	1.20	*		822	2.5	0.659	*	1.054-1.064
Hexa	PCB-136	1.87e+05	1.42	y	39:34	1.28	5.03		*	2.5	*	1.067	1.063-1.073
Hexa	PCB-148	*	*	n	NotF¶	0.91	*		822	2.5	0.871	*	1.066-1.076
Hexa	PCB-154	*	*	n	NotF¶	1.00	*		822	2.5	0.792	*	1.079-1.089
Hexa	PCB-151	2.62e+05	1.09	y	40:49	0.92	9.80		*	2.5	*	1.101	1.097-1.107
Hexa	PCB-135	1.89e+05	1.31	y	41:02	0.88	7.34		*	2.5	*	1.107	1.101-1.113
Hexa	PCB-144	4.52e+04	1.13	y	41:09	0.98	1.58		*	2.5	*	1.110	1.105-1.116
Hexa	PCB-147	5.46e+04	1.11	y	41:17	0.87	2.16		*	2.5	*	1.114	1.108-1.120
Hexa	PCB-139/149	8.02e+05	1.14	y	41:31	0.98	28.1		*	2.5	*	1.120	1.115-1.127
Hexa	PCB-140	*	*	n	NotF¶	0.89	*		822	2.5	0.887	*	1.120-1.132
Hexa	PCB-134/143	1.03e+05	1.41	y	42:10	0.95	2.57		*	2.5	*	0.975	0.970-0.980

Analyst: DB

Date: 8/2/17

Client ID: OWS-THIS-T170524112744 Filename: 170731E1 S:11 Acq:31-JUL-17 23:59:44 ConCal: ST170731E1-1

Lab ID: 1700918-07 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.949 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-131/133	6.93e+04	1.11	y 42:26	0.94	1.74		*	2.5	*	0.981	0.977-0.987
Hexa	PCB-142	*	*	n NotF¶	0.91	*		1200	2.5	0.888	*	0.981-0.991
Hexa	PCB-146/165	2.79e+05	1.06	y 42:52	1.18	5.64		*	2.5	*	0.992	0.986-0.996
Hexa	PCB-132/161	4.32e+05	1.32	y 43:07	1.17	8.74		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	1.20e+06	1.29	y 43:15	1.21	23.6		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-168	*	*	n NotF¶	1.46	*		1200	2.5	0.557	*	1.000-1.010
Hexa	PCB-141	1.58e+05	1.19	y 43:59	1.30	3.45		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-137	8.18e+04	1.28	y 44:22	1.32	1.75		*	2.5	*	1.009	1.004-1.014
Hexa	PCB-130	1.05e+05	1.26	y 44:28	1.07	2.78		*	2.5	*	1.011	1.007-1.017
Hexa	PCB-138/163/164	1.59e+06	1.29	y 44:50	1.43	29.6		*	2.5	*	1.001	0.996-1.006
Hexa	PCB-158/160	1.55e+05	1.38	y 45:04	1.57	2.61		*	2.5	*	1.006	1.001-1.011
Hexa	PCB-129	6.10e+04	1.36	y 45:20	1.05	1.54		*	2.5	*	1.012	1.007-1.017
Hexa	PCB-166	*	*	n NotF¶	1.31	*		1200	2.5	0.552	*	0.988-0.998
Hexa	PCB-159	*	*	n NotF¶	1.42	*		1200	2.5	0.506	*	0.995-1.005
Hexa	PCB-128/162	2.47e+05	1.25	y 46:22	1.15	4.54		*	2.5	*	1.006	1.002-1.012
Hexa	PCB-167	*	*	n NotF¶	1.32	*		1200	2.5	0.517	*	0.995-1.005
Hexa	PCB-156	1.59e+05	1.11	y 48:04	1.38	2.41		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-157	*	*	n NotF¶	1.38	*		1200	2.5	0.525	*	0.995-1.005
Hexa	PCB-169	*	*	n NotF¶	1.27	*		1200	2.5	0.535	*	0.995-1.005
Hepta	PCB-188	*	*	n NotF¶	1.78	*		1110	2.5	0.376	*	0.996-1.006
Hepta	PCB-184	*	*	n NotF¶	1.63	*		1110	2.5	0.409	*	1.006-1.016
Hepta	PCB-179	1.18e+05	1.48	n 44:06	1.63	2.46		*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	*	*	n NotF¶	1.77	*		1110	2.5	0.378	*	1.035-1.045
Hepta	PCB-186	*	*	n NotF¶	1.77	*		1110	2.5	0.376	*	1.049-1.059
Hepta	PCB-178	9.18e+04	0.92	y 45:39	1.28	2.43		*	2.5	*	1.065	1.061-1.071
Hepta	PCB-175	*	*	n NotF¶	1.30	*		1110	2.5	0.513	*	1.069-1.079
Hepta	PCB-182/187	2.76e+05	1.16	y 46:09	1.41	6.65		*	2.5	*	1.077	1.073-1.083
Hepta	PCB-183	6.85e+04	1.40	n 46:30	1.51	1.53		*	2.5	*	1.085	1.080-1.090
Hepta	PCB-185	*	*	n NotF¶	1.78	*		1110	2.5	0.488	*	0.951-0.961
Hepta	PCB-174	*	*	n NotF¶	1.70	*		1110	2.5	0.509	*	0.958-0.968
Hepta	PCB-181	1.38e+05	1.40	n 47:32	1.80	3.30		*	2.5	*	0.964	0.960-0.970
Hepta	PCB-177	1.15e+05	1.15	y 47:47	1.59	3.11		*	2.5	*	0.969	0.964-0.974
Hepta	PCB-171	5.66e+04	1.03	y 48:04	1.84	1.32		*	2.5	*	0.974	0.969-0.979
Hepta	PCB-173	*	*	n NotF¶	1.50	*		1110	2.5	0.580	*	0.978-0.988
Hepta	PCB-172	*	*	n NotF¶	1.77	*		1110	2.5	0.491	*	0.987-0.997
Hepta	PCB-192	*	*	n NotF¶	2.29	*		1110	2.5	0.380	*	0.991-1.001
Hepta	PCB-180	3.29e+05	0.98	y 49:21	1.82	7.78		*	2.5	*	1.000	0.995-1.005

Analyst: DB

Date: 8/2/17

Client ID: OWS-THIS-T170524112744 Filename: 170731E1 S:11 Acq:31-JUL-17 23:59:44 ConCal: ST170731E1-1

Lab ID: 1700918-07 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.949 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hepta	PCB-193	4.21e+04	0.90	y	49:34	2.38	0.762		*	2.5	*	1.005	0.999-1.009
Hepta	PCB-191	*	*	n	NotF¶	2.44	*		1110	2.5	0.356	*	1.005-1.015
Hepta	PCB-170	1.23e+05	1.21	y	50:56	1.96	3.07		*	2.5	*	1.000	0.995-1.005
Hepta	PCB-190	4.07e+04	0.92	y	51:07	2.72	0.733		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-189	*	*	n	NotF¶	1.97	*		1110	2.5	0.302	*	0.995-1.005
Octa	PCB-202	*	*	n	NotF¶	1.29	*		886	2.5	0.814	*	0.995-1.005
Octa	PCB-201	*	*	n	NotF¶	1.40	*		886	2.5	0.751	*	1.005-1.015
Octa	PCB-204	*	*	n	NotF¶	1.32	*		886	2.5	0.798	*	1.009-1.019
Octa	PCB-197	*	*	n	NotF¶	1.48	*		886	2.5	0.711	*	1.015-1.025
Octa	PCB-200	*	*	n	NotF¶	1.38	*		886	2.5	0.763	*	1.034-1.044
Octa	PCB-198	*	*	n	NotF¶	1.02	*		886	2.5	1.04	*	1.063-1.073
Octa	PCB-199	6.90e+04	1.02	y	51:42	0.94	3.70		*	2.5	*	1.072	1.065-1.075
Octa	PCB-196/203	7.93e+04	0.97	y	52:00	1.07	3.73		*	2.5	*	1.078	1.071-1.081
Octa	PCB-195	*	*	n	NotF¶	1.01	*		987	2.5	0.883	*	0.979-0.989
Octa	PCB-194	4.08e+04	0.81	y	54:07	1.11	2.14		*	2.5	*	1.000	0.995-1.005
Octa	PCB-205	*	*	n	NotF¶	1.43	*		987	2.5	0.622	*	1.000-1.010
Nona	PCB-208	2.62e+04	1.76	n	53:22	1.16	0.573		*	2.5	*	1.000	0.995-1.005
Nona	PCB-207	*	*	n	NotF¶	1.18	*		756	2.5	0.252	*	1.001-1.011
Nona	PCB-206	5.06e+04	1.22	y	55:40	0.98	1.69		*	2.5	*	1.000	0.995-1.005
Deca	PCB-209	2.55e+04	1.54	n	56:59	1.56	0.493		*	2.5	*	1.000	0.995-1.005

Analyst: DB

Date: 8/2/17

Client ID: OWS-THIS-T170524112744 Filename: 170731E1 S:11 Acq:31-JUL-17 23:59:44 ConCal: ST170731E1-1
Lab ID: 1700918-07 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.9493 EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	4.50e+06	2.94 y	16:03	1.33	98.2205	
Total Di-PCB	1.15e+08	1.58 y	20:04	1.05	2749.24	
Total Tri-PCB	5.14e+07	1.02 y	24:13	1.54	1754.47	
Total Tri-PCB	3.37e+06	0.89 y	28:29	0.94	275.464	Sum:2029.93
Total Tetra-PCB	4.33e+07	0.73 y	27:59	1.25	1188.34	
Total Penta-PCB	1.73e+07	1.74 y	33:57	1.47	412.998	
Total Penta-PCB	6.47e+05	1.52 y	42:11	1.13	20.0696	Sum:433.068
Total Hexa-PCB	1.54e+06	1.42 y	39:34	1.05	53.9682	
Total Hexa-PCB	4.65e+06	1.41 y	42:10	1.23	90.9590	Sum:144.927
Total Hepta-PCB	1.07e+06	0.92 y	45:39	1.72	25.8533	
Total Octa-PCB	1.48e+05	1.02 y	51:42	1.22	7.42752	
Total Octa-PCB	4.08e+04	0.81 y	54:07	1.18	2.14150	Sum:9.56902
Total Nona-PCB	5.06e+04	1.22 y	55:40	1.12	1.68941	
Total Deca-PCB	2.55e+04	1.54 n	56:59	1.56	0.492554	

Total PCB Conc:6705.08907200

Integrations by Analyst: DB

Date: 8/2/17

Client ID: OWS-THIS-T170524112744 Filename: 170731E1 S:11 Acq:31-JUL-17 23:59:44 ConCal: ST170731E1-1
Lab ID: 1700918-07 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:0.9493 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	7.07e+07	3.05 y	0.70	16:03	0.619	0.617	0.623	1630	77.2
13C-PCB-3	7.52e+07	3.12 y	0.79	18:41	0.720	0.717	0.725	1550	73.7
13C-PCB-4	6.61e+07	1.60 y	0.54	20:01	0.772	0.769	0.777	1990	94.3
13C-PCB-9	9.23e+07	1.58 y	0.89	21:50	0.842	0.838	0.846	1680	79.8
13C-PCB-11	1.02e+08	1.57 y	0.93	25:14	0.973	0.968	0.978	1770	83.9
13C-PCB-19	3.52e+07	1.05 y	0.41	24:12	0.933	0.928	0.938	1400	66.5
13C-PCB-28	2.68e+07	0.98 y	1.04	29:06	1.004	0.999	1.009	1610	76.6
13C-PCB-32	5.34e+07	1.07 y	0.63	27:08	1.046	1.041	1.051	1380	65.4
13C-PCB-37	2.93e+07	1.04 y	1.00	32:59	1.138	1.132	1.144	1840	87.5
13C-PCB-47	6.06e+07	0.82 y	0.80	32:01	0.871	0.867	0.875	1780	84.3
13C-PCB-52	5.45e+07	0.78 y	0.74	31:31	0.857	0.853	0.861	1720	81.5
13C-PCB-54	6.61e+07	0.78 y	0.94	27:58	0.761	0.757	0.765	1650	78.4
13C-PCB-70	7.66e+07	0.80 y	0.99	35:32	0.966	0.961	0.971	1800	85.6
13C-PCB-77	8.32e+07	0.81 y	0.97	39:39	1.078	1.073	1.083	2010	95.4
13C-PCB-80	8.07e+07	0.82 y	1.01	35:57	0.978	0.973	0.983	1870	88.8
13C-PCB-81	8.46e+07	0.81 y	1.01	39:03	1.062	1.057	1.067	1960	92.8
13C-PCB-95	5.55e+07	1.60 y	0.80	35:50	0.913	0.908	0.918	1740	82.7
13C-PCB-97	5.04e+07	1.61 y	0.70	38:49	0.989	0.984	0.994	1820	86.3
13C-PCB-101	5.73e+07	1.57 y	0.81	37:31	0.956	0.951	0.961	1800	85.2
13C-PCB-104	6.72e+07	1.57 y	1.01	32:40	0.832	0.828	0.836	1680	79.9
13C-PCB-105	5.55e+07	1.54 y	1.18	43:04	0.929	0.924	0.934	1260	59.7
13C-PCB-114	5.67e+07	1.51 y	1.18	42:12	0.910	0.905	0.915	1280	60.7
13C-PCB-118	7.79e+07	1.60 y	0.99	41:34	1.059	1.054	1.064	1980	93.9
13C-PCB-123	7.38e+07	1.58 y	0.94	41:22	1.054	1.049	1.059	1990	94.3
13C-PCB-126	5.70e+07	1.53 y	1.17	45:18	0.977	0.972	0.982	1310	62.0
13C-PCB-127	6.11e+07	1.50 y	1.26	43:25	0.937	0.931	0.941	1290	61.4
13C-PCB-138	7.95e+07	1.28 y	1.15	44:48	0.967	0.961	0.971	1840	87.3
13C-PCB-141	7.44e+07	1.26 y	1.11	43:58	0.949	0.943	0.953	1800	85.4
13C-PCB-153	8.88e+07	1.27 y	1.32	43:14	0.933	0.927	0.937	1800	85.4
13C-PCB-155	6.14e+07	1.28 y	0.76	37:04	0.944	0.939	0.949	2040	96.7
13C-PCB-156	1.01e+08	1.30 y	1.40	48:03	1.037	1.032	1.042	1920	91.3
13C-PCB-157	1.04e+08	1.31 y	1.40	48:19	1.042	1.038	1.048	1990	94.6
13C-PCB-159	9.96e+07	1.28 y	1.39	46:06	0.995	0.989	0.999	1910	90.9
13C-PCB-167	1.03e+08	1.27 y	1.41	46:46	1.009	1.004	1.014	1950	92.4
13C-PCB-169	1.05e+08	1.26 y	1.38	50:32	1.090	1.085	1.095	2030	96.5
13C-PCB-170	4.30e+07	0.45 y	0.83	50:56	1.103	1.093	1.103	2020	96.0
13C-PCB-180	4.90e+07	0.46 y	0.96	49:20	1.068	1.059	1.069	1990	94.5
13C-PCB-188	6.22e+07	0.46 y	1.36	42:52	0.928	0.919	0.929	1800	85.2
13C-PCB-189	6.11e+07	0.47 y	1.16	52:32	1.137	1.125	1.137	2070	98.0
13C-PCB-194	3.62e+07	0.84 y	0.74	54:06	0.995	0.990	1.000	1870	88.7
13C-PCB-202	4.20e+07	0.93 y	0.95	48:15	1.045	1.036	1.046	1740	82.6
13C-PCB-206	6.41e+07	0.77 y	0.91	55:39	1.024	1.019	1.029	2680	127
13C-PCB-208	8.32e+07	0.77 y	1.19	53:21	0.981	0.977	0.987	2660	126
13C-PCB-209	6.97e+07	1.19 y	0.80	56:58	1.048	1.044	1.054	3320	158

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	9.16e+07	0.79 y	1.02	37:50	1.029	1.024	1.033	2090	99.4
13C-PCB-178	4.84e+07	0.45 y	0.90	45:39	0.985	0.980	0.989	2100	99.6

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	9.16e+07	0.79 y	1.01	37:50	0.969	0.963	0.973	2250	107
13C-PCB-178	4.84e+07	0.45 y	0.94	45:39	0.925	0.920	0.930	2220	105

RS

Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	1.30e+08	1.57 y	1.00	25:56	2110
13C-PCB-31	3.35e+07	1.01 y	1.00	28:59	2110
13C-PCB-60	9.00e+07	0.80 y	1.00	36:46	2110
13C-PCB-111	8.36e+07	1.60 y	1.00	39:15	2110
13C-PCB-128	7.88e+07	1.27 y	1.00	46:21	2110
13C-PCB-182	5.37e+07	0.45 y	1.00	46:11	2110
13C-PCB-205	5.55e+07	0.85 y	1.00	54:22	2110

Analyst: DB

Date: 8/11/17

Sample ID: OWS-WAFO-T170515132332

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 15-May-2017 11:46

Sample Data
Matrix: Water
Sample Size: 1.01 L

Laboratory Data
Lab Sample: 1700918-08 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 01-Aug-17 22:16 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	447	4.97		
PCB-2	5.84	4.97		
PCB-3	87.8	4.97		
PCB-4/10	3330	9.93		
PCB-5/8	399	9.93		
PCB-6	123	4.97		
PCB-7/9	34.7	9.93		
PCB-11	26.4	4.97		
PCB-12/13	78.6	9.93		
PCB-14	ND	4.97	1.02	U
PCB-15	389	4.97		
PCB-16/32	376	9.93		
PCB-17	287	4.97		
PCB-18	406	4.97		
PCB-19	966	4.97		
PCB-20/21/33	156	14.9		
PCB-22	185	4.97		
PCB-23	1.21	4.97		J
PCB-24/27	398	9.93		
PCB-25	152	4.97		
PCB-26	369	4.97		
PCB-28	694	4.97		
PCB-29	ND	4.97	2.49	UM
PCB-30	ND	4.97	0.806	UM
PCB-31	870	4.97		
PCB-34	22.5	4.97		
PCB-35	9.05	4.97		
PCB-36	2.22	4.97		J
PCB-37	180	4.97		
PCB-38	8.36	4.97		
PCB-39	7.58	4.97		
PCB-40	60.6	4.97		
PCB-41/64/71/72	405	19.9		
PCB-42/59	144	9.93		
PCB-43/49	538	9.93		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-44	300	4.97		
PCB-45	103	4.97		
PCB-46	37.9	4.97		
PCB-47	318	4.97		
PCB-48/75	54.1	9.93		
PCB-50	6.04	4.97		
PCB-51	58.6	4.97		
PCB-52/69	606	9.93		
PCB-53	256	4.97		
PCB-54	23.3	4.97		
PCB-55	6.41	4.97		
PCB-56/60	172	9.93		
PCB-57	9.24	4.97		
PCB-58	1.50	4.97		J
PCB-61/70	232	9.93		
PCB-62	ND	4.97	0.845	U
PCB-63	33.7	4.97		
PCB-65	2.37	4.97		J
PCB-66/76	252	9.93		
PCB-67	15.5	4.97		
PCB-68	14.6	4.97		
PCB-73	16.7	4.97		
PCB-74	151	4.97		
PCB-77	33.4	4.97		
PCB-78	ND	4.97	0.732	U
PCB-79	2.22	4.97		J
PCB-80	ND	4.97	0.635	U
PCB-81	ND	4.97	1.15	UM
PCB-82	24.7	4.97		
PCB-83	ND	4.97	1.13	U
PCB-84/92	129	9.93		
PCB-85/116	34.4	9.93		
PCB-86	ND	4.97	1.58	UM
PCB-87/117/125	65.3	14.9		
PCB-88/91	64.6	4.97		

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-WAFO-T170515132332

EPA Method 1668C

Client Data		Sample Data		Laboratory Data			
Name:	GE Energy	Matrix:	Water	Lab Sample:	1700918-08	Date Received:	21-Jul-2017 9:12
Project:	Hudson River RAMP	Sample Size:	1.01 L	QC Batch:	B7G0116	Date Extracted:	25-Jul-2017 8:40
Date Collected:	15-May-2017 11:46			Date Analyzed :	01-Aug-17 22:16	Column: ZB-1	

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	3.32	4.97		J
PCB-90/101	154	9.93		
PCB-93	ND	4.97	1.67	U
PCB-94	13.2	4.97		
PCB-95/98/102	210	14.9		
PCB-96	9.31	4.97		
PCB-97	48.2	4.97		
PCB-99	92.2	4.97		
PCB-100	6.99	4.97		
PCB-103	7.73	4.97		
PCB-104	ND	4.97	0.789	UM
PCB-105	68.2	4.97		
PCB-106/118	125	9.93		
PCB-107/109	13.3	9.93		
PCB-108/112	18.0	9.93		
PCB-110	190	4.97		
PCB-111/115	3.14	9.93		J
PCB-113	2.32	4.97		J
PCB-114	5.91	4.97		
PCB-119	ND	6.77	6.77	UM
PCB-120	0.930	4.97		J
PCB-121	ND	4.97	1.04	U
PCB-122	2.10	4.97		J
PCB-123	2.72	4.97		J
PCB-124	6.46	4.97		
PCB-126	1.03	4.97		J
PCB-127	ND	4.97	0.786	U
PCB-128/162	18.1	9.93		
PCB-129	4.62	4.97		J
PCB-130	8.68	4.97		
PCB-131/133	8.84	9.93		J
PCB-132/161	29.7	9.93		
PCB-134/143	10.3	9.93		
PCB-135	21.5	4.97		
PCB-136	19.3	4.97		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-137	5.49	4.97		
PCB-138/163/164	132	14.9		
PCB-139/149	72.7	9.93		
PCB-140	ND	4.97	2.24	U
PCB-141	14.3	4.97		
PCB-142	ND	4.97	1.44	U
PCB-144	ND	4.97	1.27	UM
PCB-145	ND	4.97	1.66	U
PCB-146/165	24.1	9.93		
PCB-147	6.32	4.97		
PCB-148	ND	4.97	2.20	U
PCB-150	ND	4.97	1.63	U
PCB-151	34.6	4.97		
PCB-152	ND	4.97	1.60	U
PCB-153	99.9	4.97		
PCB-154	6.21	4.97		
PCB-155	ND	4.97	1.52	U
PCB-156	12.8	4.97		
PCB-157	2.91	4.97		J
PCB-158/160	10.5	9.93		
PCB-159	ND	4.97	0.864	U
PCB-166	ND	4.97	0.941	U
PCB-167	4.94	4.97		J
PCB-168	ND	4.97	0.906	U
PCB-169	ND	4.97	0.999	U
PCB-170	27.5	4.97		
PCB-171	6.00	4.97		
PCB-172	4.87	4.97		J
PCB-173	ND	4.97	1.13	U
PCB-174	14.8	4.97		
PCB-175	0.991	4.97		J
PCB-176	1.93	4.97		J
PCB-177	14.4	4.97		
PCB-178	11.1	4.97		
PCB-179	12.3	4.97		

RL - Reporting limit

DL - Sample specifc estimated detection limit

LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-WAFO-T170515132332

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 15-May-2017 11:46

Sample Data
Matrix: Water
Sample Size: 1.01 L

Laboratory Data
Lab Sample: 1700918-08 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 01-Aug-17 22:16 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	52.7	4.97		
PCB-181	ND	4.97	0.940	U
PCB-182/187	33.5	9.93		
PCB-183	10.4	4.97		
PCB-184	ND	4.97	0.702	U
PCB-185	ND	4.97	1.73	UM
PCB-186	ND	4.97	0.646	U
PCB-188	ND	4.97	0.645	U
PCB-189	1.81	4.97		J
PCB-190	5.33	4.97		
PCB-191	ND	4.97	0.692	U
PCB-192	ND	4.97	0.737	U
PCB-193	2.67	4.97		J
PCB-194	19.5	4.97		
PCB-195	6.35	4.97		
PCB-196/203	15.9	9.93		
PCB-197	ND	4.97	1.01	U
PCB-198	ND	4.97	1.48	U
PCB-199	20.6	4.97		
PCB-200	ND	4.97	1.13	UM
PCB-201	ND	4.97	1.71	UM
PCB-202	6.18	4.97		
PCB-204	ND	4.97	1.14	U
PCB-205	0.905	4.97		J
PCB-206	15.0	4.97		
PCB-207	1.24	4.97		J
PCB-208	4.95	4.97		J
PCB-209	5.81	4.97		
Total monoCB	541			
Total diCB	4390			
Total triCB	5090			
Total tetraCB	3850			
Total pentaCB	1300			
Total hexaCB	547			
Total heptaCB	200			

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	69.4			
Total nonaCB	21.2			
DecaCB	5.81			
Total PCB	16000			

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-WAFO-T170515132332

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 15-May-2017 11:46

Sample Data
Matrix: Water
Sample Size: 1.01 L

Laboratory Data
Lab Sample: 1700918-08 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 01-Aug-17 22:16 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	54.5	5 -145	
	13C-PCB-3	52.2	5 -145	
	13C-PCB-4	52.0	5 -145	
	13C-PCB-11	64.8	5 -145	
	13C-PCB-9	54.3	5 -145	
	13C-PCB-19	73.3	5 -145	
	13C-PCB-28	61.1	5 -145	
	13C-PCB-32	77.5	5 -145	
	13C-PCB-37	73.4	5 -145	
	13C-PCB-47	76.7	5 -145	
	13C-PCB-52	74.4	5 -145	
	13C-PCB-54	64.1	5 -145	
	13C-PCB-70	75.0	5 -145	
	13C-PCB-77	76.3	10 -145	
	13C-PCB-80	75.6	10 -145	
	13C-PCB-81	76.3	10 -145	
	13C-PCB-95	78.0	10 -145	
	13C-PCB-97	80.7	10 -145	
	13C-PCB-101	79.7	10 -145	
	13C-PCB-104	78.1	10 -145	
	13C-PCB-105	88.8	10 -145	
	13C-PCB-114	90.3	10 -145	
	13C-PCB-118	75.3	10 -145	
	13C-PCB-123	76.5	10 -145	
	13C-PCB-126	91.3	10 -145	
	13C-PCB-127	90.1	10 -145	
	13C-PCB-138	76.7	10 -145	
	13C-PCB-141	75.8	10 -145	
	13C-PCB-153	77.3	10 -145	
	13C-PCB-155	75.1	10 -145	
	13C-PCB-156	78.5	10 -145	
	13C-PCB-157	77.8	10 -145	
	13C-PCB-159	79.2	10 -145	
	13C-PCB-167	78.5	10 -145	
	13C-PCB-169	78.9	10 -145	

	Labeled Standard	%R	LCL-UCL	Qualifiers
	13C-PCB-170	80.0	10 -145	
	13C-PCB-180	81.7	10 -145	
	13C-PCB-188	82.4	10 -145	
	13C-PCB-189	80.9	10 -145	
	13C-PCB-194	80.3	10 -145	
	13C-PCB-202	88.5	10 -145	
	13C-PCB-206	66.5	10 -145	
	13C-PCB-208	64.1	10 -145	
	13C-PCB-209	65.4	10 -145	
CRS	13C-PCB-79	83.8	10 -145	
	13C-PCB-178	88.7	10 -145	

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Client ID: OWS-WAFO-TI70515132332 Filename: 170801E1 S:9 Acq: 1-AUG-17 22:16:53 ConCal: ST170801E1-1

Lab ID: 1700918-08 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.007 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	2.17e+07	3.08	y 16:03	1.36	446.9		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	2.90e+05	3.14	y 18:28	1.30	5.835		*	2.5	*	0.988	0.983-0.993
Mono	PCB-3	4.44e+06	3.02	y 18:42	1.33	87.82		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	1.15e+08	1.57	y 20:04	1.32	3335		*	2.5	*	1.002	0.997-1.007
Di	PCB-7/9	1.56e+06	1.59	y 21:52	1.00	34.65		*	2.5	*	0.867	0.864-0.871
Di	PCB-6	5.47e+06	1.56	y 22:32	0.99	123.4		*	2.5	*	0.893	0.888-0.897
Di	PCB-5/8	1.85e+07	1.58	y 22:55	1.03	398.6		*	2.5	*	0.908	0.905-0.915
Di	PCB-14	*	*	n NotFn	1.16	*		2740	2.5	1.02	*	0.948-0.958
Di	PCB-11	1.52e+06	1.55	y 25:15	1.03	26.37		*	2.5	*	1.001	0.996-1.006
Di	PCB-12/13	4.53e+06	1.62	y 25:37	1.03	78.57		*	2.5	*	1.015	1.011-1.021
Di	PCB-15	2.55e+07	1.60	y 25:57	1.17	389.5		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	4.06e+07	1.07	y 24:13	1.52	965.7		*	2.5	*	1.000	0.996-1.006
Tri	PCB-30	5.61e+04	0.87	n 25:07	2.51	0.8057	R	*	2.5	*	1.038	1.033-1.043
Tri	PCB-18	2.04e+07	1.07	y 25:53	1.11	406.3		*	2.5	*	0.954	0.949-0.959
Tri	PCB-17	1.57e+07	1.07	y 26:03	1.21	287.4		*	2.5	*	0.960	0.955-0.965
Tri	PCB-24/27	2.90e+07	1.06	y 26:37	1.61	398.4		*	2.5	*	0.981	0.976-0.986
Tri	PCB-16/32	2.30e+07	1.07	y 27:09	1.35	376.2		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	1.15e+06	1.02	y 27:57	0.98	22.53		*	2.5	*	0.961	0.955-0.965
Tri	PCB-23	5.87e+04	1.08	y 28:03	0.93	1.207		*	2.5	*	0.964	0.958-0.968
Tri	PCB-29	1.26e+05	1.34	n 28:17	0.97	2.487	R	*	2.5	*	0.972	0.967-0.977
Tri	PCB-26	1.85e+07	1.05	y 28:30	0.96	368.9		*	2.5	*	0.979	0.975-0.985
Tri	PCB-25	6.88e+06	1.04	y 28:40	0.87	151.7		*	2.5	*	0.985	0.980-0.990
Tri	PCB-31	4.51e+07	1.05	y 29:00	1.00	869.7		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	3.37e+07	1.05	y 29:07	0.93	694.1		*	2.5	*	1.001	0.995-1.005
Tri	PCB-20/21/33	7.16e+06	1.07	y 29:45	0.89	155.6		*	2.5	*	1.022	1.017-1.027
Tri	PCB-22	8.94e+06	1.07	y 30:11	0.93	184.7		*	2.5	*	1.037	1.032-1.042
Tri	PCB-36	1.24e+05	1.11	y 30:47	0.94	2.224		*	2.5	*	0.933	0.929-0.939
Tri	PCB-39	4.56e+05	0.96	y 31:15	1.01	7.583		*	2.5	*	0.948	0.943-0.953
Tri	PCB-38	4.50e+05	1.03	y 32:02	0.90	8.364		*	2.5	*	0.971	0.966-0.976
Tri	PCB-35	4.81e+05	1.04	y 32:34	0.89	9.047		*	2.5	*	0.987	0.982-0.992
Tri	PCB-37	1.11e+07	1.03	y 33:00	1.03	179.8		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-54	1.22e+06	0.77	y 27:59	1.17	23.31		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-50	2.53e+05	0.87	y 29:09	0.94	6.043		*	2.5	*	1.042	1.038-1.048
Tetra	PCB-53	1.26e+07	0.80	y 29:48	1.19	256.0		*	2.5	*	0.945	0.941-0.951
Tetra	PCB-51	3.03e+06	0.76	y 30:08	1.25	58.63		*	2.5	*	0.956	0.952-0.962
Tetra	PCB-45	4.58e+06	0.75	y 30:35	1.08	103.3		*	2.5	*	0.970	0.966-0.976
Tetra	PCB-46	1.57e+06	0.83	y 31:04	1.01	37.85		*	2.5	*	0.986	0.981-0.991

Integrations by:

Analyst: MD

Date: 8/3/17

Reviewed by: [illegible]

Date: 8/6/17

Client ID: OWS-WAFC-TI70515132332 Filename: 170801E1 S:9 Acq: 1-AUG-17 22:16:53 ConCal: ST170801E1-1
Lab ID: 1700918-08 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.007 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	3.47e+07	0.79	y 31:33	1.39	606.2		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-73	1.04e+06	0.83	y 31:40	1.51	16.69		*	2.5	*	1.005	1.000-1.010
Tetra	PCB-43/49	2.66e+07	0.80	y 31:51	1.20	538.2		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	1.73e+07	0.78	y 32:02	1.19	318.3		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-48/75	3.42e+06	0.79	y 32:10	1.39	54.05		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	1.42e+05	0.72	y 32:24	1.31	2.372		*	2.5	*	1.012	1.007-1.017
Tetra	PCB-62	*	*	n NotF	1.38	*		2510	2.5	0.845	*	1.011-1.021
Tetra	PCB-44	1.32e+07	0.80	y 32:50	0.96	300.3		*	2.5	*	1.025	1.020-1.030
Tetra	PCB-42/59	8.70e+06	0.80	y 33:03	1.32	143.7		*	2.5	*	1.032	1.027-1.037
Tetra	PCB-41/64/71/72	2.55e+07	0.82	y 33:39	1.38	404.7		*	2.5	*	1.051	1.046-1.056
Tetra	PCB-68	1.09e+06	0.79	y 33:55	1.63	14.63		*	2.5	*	1.059	1.054-1.064
Tetra	PCB-40	2.52e+06	0.77	y 34:07	0.91	60.56		*	2.5	*	1.065	1.061-1.071
Tetra	PCB-57	6.30e+05	0.84	y 34:29	1.23	9.239		*	2.5	*	0.970	0.965-0.975
Tetra	PCB-67	1.04e+06	0.85	y 34:47	1.21	15.45		*	2.5	*	0.979	0.974-0.984
Tetra	PCB-58	1.07e+05	0.73	y 34:55	1.28	1.502		*	2.5	*	0.983	0.977-0.987
Tetra	PCB-63	2.44e+06	0.77	y 35:04	1.30	33.70		*	2.5	*	0.987	0.981-0.991
Tetra	PCB-74	1.10e+07	0.81	y 35:21	1.31	151.3		*	2.5	*	0.995	0.990-1.000
Tetra	PCB-61/70	1.59e+07	0.80	y 35:33	1.23	232.3		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	1.81e+07	0.80	y 35:46	1.29	252.4		*	2.5	*	1.006	1.000-1.010
Tetra	PCB-80	*	*	n NotF	1.49	*		2510	2.5	0.635	*	0.996-1.006
Tetra	PCB-55	4.98e+05	0.80	y 36:17	1.36	6.407		*	2.5	*	1.009	1.004-1.014
Tetra	PCB-56/60	1.23e+07	0.79	y 36:47	1.25	172.3		*	2.5	*	1.023	1.018-1.028
Tetra	PCB-79	1.70e+05	0.72	y 37:52	1.34	2.223		*	2.5	*	1.053	1.048-1.058
Tetra	PCB-78	*	*	n NotF	1.29	*		2510	2.5	0.732	*	0.982-0.992
Tetra	PCB-81	9.12e+04	0.83	y 39:04	1.38	1.147		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-77	2.61e+06	0.79	y 39:40	1.42	33.36		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	3.48e+04	2.52	n 32:41	1.47	0.7889	R	*	2.5	*	1.000	0.996-1.006
Penta	PCB-96	3.62e+05	1.48	y 33:57	1.29	9.312		*	2.5	*	1.039	1.034-1.044
Penta	PCB-103	2.76e+05	1.48	y 34:30	1.19	7.726		*	2.5	*	1.056	1.051-1.061
Penta	PCB-100	2.48e+05	1.56	y 34:51	1.18	6.993		*	2.5	*	1.067	1.061-1.071
Penta	PCB-94	3.97e+05	1.59	y 35:19	1.25	13.21		*	2.5	*	0.985	0.981-0.991
Penta	PCB-95/98/102	7.09e+06	1.59	y 35:52	1.40	210.5		*	2.5	*	1.001	0.994-1.004
Penta	PCB-93	*	*	n NotF	1.18	*		1540	2.5	1.67	*	0.998-1.008
Penta	PCB-88/91	2.05e+06	1.60	y 36:15	1.32	64.58		*	2.5	*	1.011	1.006-1.016
Penta	PCB-121	*	*	n NotF	1.89	*		1540	2.5	1.04	*	1.009-1.019
Penta	PCB-84/92	4.11e+06	1.69	y 37:10	1.30	128.9		*	2.5	*	0.990	0.985-0.995
Penta	PCB-89	1.00e+05	1.32	y 37:20	1.23	3.322		*	2.5	*	0.995	0.990-1.000

Analyst: MJ

Date: 8/3/17

Client ID: OWS-WAFO-TI70515132332 Filename: 170801E1 S:9 Acq: 1-AUG-17 22:16:53 ConCal: ST170801E1-1
Lab ID: 1700918-08 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.007 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	5.55e+06	1.58	y 37:33	1.47	153.7		*	2.5	*	1.001	0.995-1.005
Penta	PCB-113	9.45e+04	1.43	y 37:45	1.65	2.324		*	2.5	*	1.006	1.001-1.011
Penta	PCB-99	3.36e+06	1.57	y 37:52	1.48	92.20		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	3.30e+05	2.18	n 38:19	2.25	6.773	R	*	2.5	*	0.987	0.982-0.992
Penta	PCB-108/112	6.67e+05	1.69	y 38:30	1.71	18.00		*	2.5	*	0.992	0.986-0.996
Penta	PCB-83	*	*	n NotF¶	2.05	*		1540	2.5	1.13	*	0.990-1.000
Penta	PCB-97	1.63e+06	1.47	y 38:50	1.56	48.23		*	2.5	*	1.000	0.995-1.005
Penta	PCB-86	4.09e+04	2.15	n 38:59	1.20	1.577	R	*	2.5	*	1.004	0.999-1.009
Penta	PCB-87/117/125	2.70e+06	1.57	y 39:07	1.91	65.33		*	2.5	*	1.007	1.002-1.012
Penta	PCB-111/115	1.52e+05	1.77	y 39:16	2.24	3.144		*	2.5	*	1.011	1.006-1.016
Penta	PCB-85/116	1.24e+06	1.62	y 39:23	1.66	34.45		*	2.5	*	1.014	1.010-1.020
Penta	PCB-120	4.89e+04	1.53	y 39:37	2.43	0.9302		*	2.5	*	1.020	1.016-1.026
Penta	PCB-110	8.14e+06	1.59	y 39:47	1.98	190.3		*	2.5	*	1.025	1.019-1.029
Penta	PCB-82	6.15e+05	1.76	y 40:24	0.91	24.73		*	2.5	*	0.976	0.971-0.981
Penta	PCB-124	2.82e+05	1.41	y 41:04	1.59	6.461		*	2.5	*	0.992	0.988-0.998
Penta	PCB-107/109	5.79e+05	1.66	y 41:14	1.58	13.33		*	2.5	*	0.996	0.991-1.001
Penta	PCB-123	1.18e+05	1.48	y 41:23	1.58	2.717		*	2.5	*	1.000	0.996-1.006
Penta	PCB-106/118	5.61e+06	1.65	y 41:35	1.57	124.8		*	2.5	*	1.001	0.996-1.006
Penta	PCB-114	3.09e+05	1.50	y 42:14	1.18	5.906		*	2.5	*	1.000	0.995-1.005
Penta	PCB-122	9.97e+04	1.62	y 42:22	1.07	2.103		*	2.5	*	1.003	0.999-1.009
Penta	PCB-105	3.62e+06	1.68	y 43:06	1.23	68.24		*	2.5	*	1.001	0.995-1.005
Penta	PCB-127	*	*	n NotF¶	1.03	*		1220	2.5	0.786	*	0.995-1.005
Penta	PCB-126	5.10e+04	1.58	y 45:20	1.12	1.033		*	2.5	*	1.001	0.995-1.005
Hexa	PCB-155	*	*	n NotF¶	1.31	*		1640	2.5	1.52	*	0.966-1.006
Hexa	PCB-150	*	*	n NotF¶	1.22	*		1640	2.5	1.63	*	1.030-1.040
Hexa	PCB-152	*	*	n NotF¶	1.24	*		1640	2.5	1.60	*	1.042-1.052
Hexa	PCB-145	*	*	n NotF¶	1.20	*		1640	2.5	1.66	*	1.054-1.064
Hexa	PCB-136	5.40e+05	1.18	y 39:35	1.28	19.28		*	2.5	*	1.068	1.063-1.073
Hexa	PCB-148	*	*	n NotF¶	0.91	*		1640	2.5	2.20	*	1.066-1.076
Hexa	PCB-154	1.36e+05	1.24	y 40:11	1.00	6.207		*	2.5	*	1.084	1.079-1.089
Hexa	PCB-151	6.94e+05	1.37	y 40:49	0.92	34.62		*	2.5	*	1.101	1.097-1.107
Hexa	PCB-135	4.16e+05	1.12	y 41:02	0.88	21.53		*	2.5	*	1.107	1.101-1.113
Hexa	PCB-144	2.73e+04	0.45	n 41:09	0.98	1.266	R	*	2.5	*	1.110	1.105-1.116
Hexa	PCB-147	1.20e+05	1.30	y 41:15	0.87	6.323		*	2.5	*	1.113	1.108-1.120
Hexa	PCB-139/149	1.56e+06	1.29	y 41:31	0.98	72.66		*	2.5	*	1.120	1.115-1.127
Hexa	PCB-140	*	*	n NotF¶	0.89	*		1640	2.5	2.24	*	1.120-1.132
Hexa	PCB-134/143	4.12e+05	1.13	y 42:10	0.95	10.29		*	2.5	*	0.975	0.970-0.980

Analyst: MN

Date: 8/2/17

Client ID: OWS-WAFO-TI70515132332 Filename: 170801E1 S:9 Acq: 1-AUG-17 22:16:53 ConCal: ST170801E1-1
Lab ID: 1700918-08 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.007 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-131/133	3.51e+05	1.27	y 42:27	0.94	8.836		*	2.5	*	0.982	0.977-0.987
Hexa	PCB-142	*	*	n NotF╗	0.91	*		2040	2.5	1.44	*	0.981-0.991
Hexa	PCB-146/165	1.19e+06	1.30	y 42:52	1.18	24.08		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	1.47e+06	1.17	y 43:07	1.17	29.70		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	5.08e+06	1.27	y 43:15	1.21	99.86		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-168	*	*	n NotF╗	1.46	*		2040	2.5	0.906	*	1.000-1.010
Hexa	PCB-141	6.41e+05	1.18	y 44:00	1.30	14.27		*	2.5	*	1.001	0.996-1.006
Hexa	PCB-137	2.51e+05	1.40	y 44:22	1.32	5.490		*	2.5	*	1.009	1.004-1.014
Hexa	PCB-130	3.21e+05	1.25	y 44:29	1.07	8.684		*	2.5	*	1.011	1.007-1.017
Hexa	PCB-138/163/164	6.88e+06	1.31	y 44:51	1.43	131.7		*	2.5	*	1.001	0.996-1.006
Hexa	PCB-158/160	6.07e+05	1.41	y 45:04	1.57	10.55		*	2.5	*	1.006	1.001-1.011
Hexa	PCB-129	1.78e+05	1.35	y 45:20	1.05	4.622		*	2.5	*	1.012	1.007-1.017
Hexa	PCB-166	*	*	n NotF╗	1.31	*		2040	2.5	0.941	*	0.988-0.998
Hexa	PCB-159	*	*	n NotF╗	1.42	*		2040	2.5	0.864	*	0.995-1.005
Hexa	PCB-128/162	9.48e+05	1.29	y 46:22	1.15	18.10		*	2.5	*	1.006	1.002-1.012
Hexa	PCB-167	2.98e+05	1.09	y 46:48	1.32	4.935		*	2.5	*	1.001	0.995-1.005
Hexa	PCB-156	8.02e+05	1.38	y 48:04	1.38	12.80		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-157	1.80e+05	1.40	y 48:20	1.38	2.908		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-169	*	*	n NotF╗	1.27	*		2040	2.5	0.999	*	0.995-1.005
Hepta	PCB-188	*	*	n NotF╗	1.78	*		1750	2.5	0.645	*	0.996-1.006
Hepta	PCB-184	*	*	n NotF╗	1.63	*		1750	2.5	0.702	*	1.006-1.016
Hepta	PCB-179	5.41e+05	1.09	y 44:06	1.63	12.31		*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	9.20e+04	1.16	y 44:34	1.77	1.930		*	2.5	*	1.040	1.035-1.045
Hepta	PCB-186	*	*	n NotF╗	1.77	*		1750	2.5	0.646	*	1.049-1.059
Hepta	PCB-178	3.83e+05	0.94	y 45:41	1.28	11.10		*	2.5	*	1.066	1.061-1.071
Hepta	PCB-175	3.48e+04	1.14	y 46:01	1.30	0.9907		*	2.5	*	1.074	1.069-1.079
Hepta	PCB-182/187	1.27e+06	1.06	y 46:11	1.41	33.53		*	2.5	*	1.077	1.073-1.083
Hepta	PCB-183	4.25e+05	1.11	y 46:30	1.51	10.40		*	2.5	*	1.085	1.080-1.090
Hepta	PCB-185	5.84e+04	0.77	n 47:10	1.78	1.726	R	*	2.5	*	0.956	0.951-0.961
Hepta	PCB-174	4.78e+05	1.11	y 47:32	1.70	14.76		*	2.5	*	0.963	0.958-0.968
Hepta	PCB-181	*	*	n NotF╗	1.80	*		1750	2.5	0.940	*	0.960-0.970
Hepta	PCB-177	4.35e+05	1.19	y 47:48	1.59	14.44		*	2.5	*	0.969	0.964-0.974
Hepta	PCB-171	2.10e+05	0.97	y 48:05	1.84	6.002		*	2.5	*	0.974	0.969-0.979
Hepta	PCB-173	*	*	n NotF╗	1.50	*		1750	2.5	1.13	*	0.978-0.988
Hepta	PCB-172	1.64e+05	1.15	y 48:58	1.77	4.873		*	2.5	*	0.992	0.987-0.997
Hepta	PCB-192	*	*	n NotF╗	2.29	*		1750	2.5	0.737	*	0.991-1.001
Hepta	PCB-180	1.82e+06	0.96	y 49:21	1.82	52.66		*	2.5	*	1.000	0.995-1.005

Analyst: MJ

Date: 8/2/17

Client ID: OWS-WAFO-TI70515132332 Filename: 170801E1 S:9 Acq: 1-AUG-17 22:16:53 ConCal: ST170801E1-1
Lab ID: 1700918-08 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.007 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hepta	PCB-193	1.21e+05	0.96	y 49:33	2.38	2.674		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-191	*	*	n NotF¶	2.44	*		1750	2.5	0.692	*	1.005-1.015
Hepta	PCB-170	8.66e+05	1.05	y 50:57	1.96	27.47		*	2.5	*	1.000	0.995-1.005
Hepta	PCB-190	2.34e+05	0.94	y 51:08	2.72	5.335		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-189	8.09e+04	0.93	y 52:32	1.97	1.813		*	2.5	*	1.000	0.995-1.005
Octa	PCB-202	1.62e+05	0.80	y 48:18	1.29	6.176		*	2.5	*	1.000	0.995-1.005
Octa	PCB-201	4.85e+04	0.70	n 48:47	1.40	1.709	R	*	2.5	*	1.011	1.005-1.015
Octa	PCB-204	*	*	n NotF¶	1.32	*		1320	2.5	1.14	*	1.009-1.019
Octa	PCB-197	*	*	n NotF¶	1.48	*		1320	2.5	1.01	*	1.015-1.025
Octa	PCB-200	3.14e+04	0.70	n 50:08	1.38	1.126	R	*	2.5	*	1.038	1.034-1.044
Octa	PCB-198	*	*	n NotF¶	1.02	*		1320	2.5	1.48	*	1.063-1.073
Octa	PCB-199	3.90e+05	0.89	y 51:43	0.94	20.57		*	2.5	*	1.071	1.065-1.075
Octa	PCB-196/203	3.44e+05	0.86	y 52:00	1.07	15.94		*	2.5	*	1.077	1.071-1.081
Octa	PCB-195	1.88e+05	0.83	y 53:13	1.01	6.346		*	2.5	*	0.984	0.979-0.989
Octa	PCB-194	6.34e+05	0.89	y 54:06	1.11	19.50		*	2.5	*	1.000	0.995-1.005
Octa	PCB-205	3.81e+04	0.85	y 54:22	1.43	0.9053		*	2.5	*	1.005	1.000-1.010
Nona	PCB-208	2.16e+05	1.19	y 53:21	1.16	4.947		*	2.5	*	1.000	0.995-1.005
Nona	PCB-207	5.55e+04	1.19	y 53:41	1.18	1.243	R	*	2.5	*	1.006	1.001-1.011
Nona	PCB-206	4.42e+05	1.33	y 55:39	0.98	14.99		*	2.5	*	1.000	0.995-1.005
Deca	PCB-209	2.35e+05	0.99	y 56:58	1.56	5.814		*	2.5	*	1.000	0.995-1.005

Analyst: M

Date: 8/3/17

Client ID: OWS-WAFO-TI70515132332 Filename: 170801E1 S:9 Acq: 1-AUG-17 22:16:53 ConCal: ST170801E1-1
Lab ID: 1700918-08 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.007 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	2.64e+07	3.08	y	16:03	1.33	540.533	
Total Di-PCB	1.72e+08	1.57	y	20:04	1.05	4385.62	
Total Tri-PCB	1.29e+08	1.07	y	24:13	1.54	2434.03	
Total Tri-PCB	1.34e+08	1.02	y	27:57	0.94	2655.44	Sum:5089.47
Total Tetra-PCB	2.22e+08	0.77	y	27:59	1.25	3856.09	
Total Penta-PCB	4.54e+07	1.48	y	33:57	1.47	1225.24	
Total Penta-PCB	4.08e+06	1.50	y	42:14	1.13	77.2773	Sum:1302.52
Total Hexa-PCB	3.47e+06	1.18	y	39:35	1.05	160.618	
Total Hexa-PCB	1.96e+07	1.13	y	42:10	1.23	386.787	Sum:547.405
Total Hepta-PCB	7.16e+06	1.09	y	44:06	1.72	200.287	
Total Octa-PCB	8.95e+05	0.80	y	48:18	1.22	42.6844	
Total Octa-PCB	8.60e+05	0.83	y	53:13	1.18	26.7527	Sum:69.4371
Total Nona-PCB	7.14e+05	1.19	y	53:21	1.12	21.1784	
Total Deca-PCB	2.35e+05	0.99	y	56:58	1.56	5.81409	

Total PCB Conc:16036.6223530

Integrations by Analyst: MJ

Date: 8/3/17

Client ID: OWS-WAFO-TI70515132332 Filename: 170801E1 S:9 Acq: 1-AUG-17 22:16:53 ConCal: ST170801E1-1
Lab ID: 1700918-08 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:1.0068 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	7.09e+07	3.22 y	0.70	16:02	0.618	0.617	0.623	1080	54.5
13C-PCB-3	7.57e+07	3.29 y	0.79	18:41	0.720	0.717	0.725	1040	52.2
13C-PCB-4	5.19e+07	1.58 y	0.54	20:02	0.772	0.769	0.777	1030	52.0
13C-PCB-9	8.93e+07	1.58 y	0.89	21:50	0.842	0.838	0.846	1080	54.3
13C-PCB-11	1.11e+08	1.55 y	0.93	25:14	0.973	0.968	0.978	1290	64.8
13C-PCB-19	5.51e+07	1.06 y	0.41	24:12	0.933	0.928	0.938	1460	73.3
13C-PCB-28	1.03e+08	1.05 y	1.04	29:06	1.003	0.999	1.009	1210	61.1
13C-PCB-32	8.99e+07	1.07 y	0.63	27:08	1.046	1.041	1.051	1540	77.5
13C-PCB-37	1.19e+08	1.05 y	1.00	32:59	1.137	1.132	1.144	1460	73.4
13C-PCB-47	9.08e+07	0.80 y	0.80	32:02	0.871	0.867	0.875	1520	76.7
13C-PCB-52	8.19e+07	0.80 y	0.74	31:31	0.857	0.853	0.861	1480	74.4
13C-PCB-54	8.89e+07	0.80 y	0.94	27:58	0.760	0.757	0.765	1270	64.1
13C-PCB-70	1.10e+08	0.78 y	0.99	35:32	0.966	0.961	0.971	1490	75.0
13C-PCB-77	1.10e+08	0.82 y	0.97	39:40	1.078	1.073	1.083	1520	76.3
13C-PCB-80	1.13e+08	0.80 y	1.01	35:58	0.978	0.973	0.983	1500	75.6
13C-PCB-81	1.14e+08	0.79 y	1.01	39:04	1.062	1.057	1.067	1520	76.3
13C-PCB-95	4.77e+07	1.67 y	0.80	35:50	0.913	0.908	0.918	1550	78.0
13C-PCB-97	4.29e+07	1.68 y	0.70	38:50	0.989	0.984	0.994	1600	80.7
13C-PCB-101	4.89e+07	1.65 y	0.81	37:32	0.956	0.951	0.961	1580	79.7
13C-PCB-104	5.98e+07	1.64 y	1.01	32:41	0.832	0.828	0.836	1550	78.1
13C-PCB-105	8.59e+07	1.61 y	1.18	43:04	0.929	0.924	0.934	1760	88.8
13C-PCB-114	8.78e+07	1.58 y	1.18	42:13	0.911	0.905	0.915	1790	90.3
13C-PCB-118	5.69e+07	1.65 y	0.99	41:34	1.059	1.054	1.064	1500	75.3
13C-PCB-123	5.45e+07	1.67 y	0.94	41:23	1.054	1.049	1.059	1520	76.5
13C-PCB-126	8.74e+07	1.58 y	1.17	45:19	0.977	0.972	0.982	1810	91.3
13C-PCB-127	9.33e+07	1.57 y	1.26	43:25	0.937	0.931	0.941	1790	90.1
13C-PCB-138	7.27e+07	1.28 y	1.15	44:49	0.966	0.961	0.971	1520	76.7
13C-PCB-141	6.87e+07	1.28 y	1.11	43:59	0.948	0.943	0.953	1510	75.8
13C-PCB-153	8.36e+07	1.25 y	1.32	43:15	0.933	0.927	0.937	1540	77.3
13C-PCB-155	4.35e+07	1.28 y	0.76	37:04	0.944	0.939	0.949	1490	75.1
13C-PCB-156	9.04e+07	1.30 y	1.40	48:04	1.037	1.032	1.042	1560	78.5
13C-PCB-157	8.91e+07	1.29 y	1.40	48:20	1.042	1.038	1.048	1540	77.8
13C-PCB-159	9.03e+07	1.28 y	1.39	46:06	0.994	0.989	0.999	1570	79.2
13C-PCB-167	9.07e+07	1.29 y	1.41	46:47	1.009	1.004	1.014	1560	78.5
13C-PCB-169	8.91e+07	1.29 y	1.38	50:32	1.090	1.085	1.095	1570	78.9
13C-PCB-170	3.20e+07	0.47 y	0.83	50:56	1.103	1.093	1.103	1590	80.0
13C-PCB-180	3.78e+07	0.49 y	0.96	49:21	1.068	1.059	1.069	1620	81.7
13C-PCB-188	5.37e+07	0.45 y	1.36	42:52	0.928	0.919	0.929	1640	82.4
13C-PCB-189	4.50e+07	0.46 y	1.16	52:32	1.137	1.125	1.137	1610	80.9
13C-PCB-194	5.83e+07	0.92 y	0.74	54:06	0.995	0.990	1.000	1600	80.3
13C-PCB-202	4.02e+07	0.92 y	0.95	48:17	1.045	1.036	1.046	1760	88.5
13C-PCB-206	5.96e+07	0.78 y	0.91	55:38	1.023	1.019	1.029	1320	66.5
13C-PCB-208	7.52e+07	0.77 y	1.19	53:21	0.981	0.977	0.987	1270	64.1
13C-PCB-209	5.15e+07	1.25 y	0.80	56:57	1.048	1.044	1.054	1300	65.4

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.27e+08	0.80 y	1.02	37:51	1.029	1.024	1.033	1670	83.8
13C-PCB-178	3.85e+07	0.47 y	0.90	45:39	0.985	0.980	0.989	1760	88.7

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.27e+08	0.80 y	1.01	37:51	0.969	0.963	0.973	2180	110
13C-PCB-178	3.85e+07	0.47 y	0.94	45:39	0.925	0.920	0.930	2160	109

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.85e+08	1.55	y	1.00	25:56	1990
13C-PCB-31	1.62e+08	1.07	y	1.00	29:00	1990
13C-PCB-60	1.48e+08	0.80	y	1.00	36:47	1990
13C-PCB-111	7.61e+07	1.65	y	1.00	39:16	1990
13C-PCB-128	8.21e+07	1.27	y	1.00	46:22	1990
13C-PCB-182	4.80e+07	0.46	y	1.00	46:12	1990
13C-PCB-205	9.86e+07	0.92	y	1.00	54:22	1990

Analyst: MS

Date: 8/3/17

Sample ID: OWS-WAFO-T170524112421

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 10:35

Sample Data
Matrix: Water
Sample Size: 0.932 L

Laboratory Data
Lab Sample: 1700918-09 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 01-Aug-17 23:21 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	178	5.37		
PCB-2	2.59	5.37		J
PCB-3	36.4	5.37		
PCB-4/10	4780	10.7		
PCB-5/8	168	10.7		
PCB-6	53.5	5.37		
PCB-7/9	12.1	10.7		
PCB-11	16.6	5.37		
PCB-12/13	36.4	10.7		
PCB-14	ND	5.37	0.706	U
PCB-15	251	5.37		
PCB-16/32	302	10.7		
PCB-17	229	5.37		
PCB-18	299	5.37		
PCB-19	1130	5.37		
PCB-20/21/33	52.0	16.1		
PCB-22	75.2	5.37		
PCB-23	1.25	5.37		J
PCB-24/27	394	10.7		
PCB-25	90.7	5.37		
PCB-26	280	5.37		
PCB-28	398	5.37		
PCB-29	1.18	5.37		J
PCB-30	0.923	5.37		J
PCB-31	542	5.37		
PCB-34	17.2	5.37		
PCB-35	4.19	5.37		J
PCB-36	1.67	5.37		J
PCB-37	89.5	5.37		
PCB-38	7.06	5.37		
PCB-39	5.28	5.37		J
PCB-40	52.4	5.37		
PCB-41/64/71/72	332	21.5		
PCB-42/59	122	10.7		
PCB-43/49	480	10.7		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-44	267	5.37		
PCB-45	90.6	5.37		
PCB-46	33.9	5.37		
PCB-47	276	5.37		
PCB-48/75	42.9	10.7		
PCB-50	6.37	5.37		
PCB-51	54.0	5.37		
PCB-52/69	551	10.7		
PCB-53	245	5.37		
PCB-54	25.1	5.37		
PCB-55	3.66	5.37		J
PCB-56/60	121	10.7		
PCB-57	5.28	5.37		J
PCB-58	1.44	5.37		J
PCB-61/70	161	10.7		
PCB-62	ND	5.37	0.581	U
PCB-63	23.4	5.37		
PCB-65	1.91	5.37		J
PCB-66/76	179	10.7		
PCB-67	10.2	5.37		
PCB-68	12.1	5.37		
PCB-73	12.7	5.37		
PCB-74	108	5.37		
PCB-77	17.6	5.37		
PCB-78	ND	5.37	0.492	U
PCB-79	1.95	5.37		J
PCB-80	ND	5.37	0.427	U
PCB-81	ND	5.37	0.668	UM
PCB-82	18.4	5.37		
PCB-83	ND	5.37	1.09	U
PCB-84/92	102	10.7		
PCB-85/116	29.0	10.7		
PCB-86	ND	5.37	1.58	U
PCB-87/117/125	52.3	16.1		
PCB-88/91	52.6	5.37		

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-WAFO-T170524112421

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 10:35

Sample Data
Matrix: Water
Sample Size: 0.932 L

Laboratory Data
Lab Sample: 1700918-09 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 01-Aug-17 23:21 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	3.37	5.37		J
PCB-90/101	126	10.7		
PCB-93	ND	5.37	1.69	U
PCB-94	11.3	5.37		
PCB-95/98/102	167	16.1		
PCB-96	7.52	5.37		
PCB-97	40.1	5.37		
PCB-99	75.7	5.37		
PCB-100	6.56	5.37		
PCB-103	7.15	5.37		
PCB-104	0.821	5.37		J
PCB-105	44.8	5.37		
PCB-106/118	85.0	10.7		
PCB-107/109	9.60	10.7		J
PCB-108/112	13.1	10.7		
PCB-110	151	5.37		
PCB-111/115	2.93	10.7		J
PCB-113	1.85	5.37		J
PCB-114	3.71	5.37		J
PCB-119	6.48	5.37		
PCB-120	ND	5.37	0.921	U
PCB-121	ND	5.37	1.05	U
PCB-122	ND	5.37	1.09	UM
PCB-123	1.93	5.37		J
PCB-124	4.73	5.37		J
PCB-126	ND	5.37	0.928	U
PCB-127	ND	5.37	0.915	U
PCB-128/162	11.1	10.7		
PCB-129	ND	5.37	2.58	UM
PCB-130	6.14	5.37		
PCB-131/133	5.20	10.7		J
PCB-132/161	20.8	10.7		
PCB-134/143	8.56	10.7		J
PCB-135	17.3	5.37		
PCB-136	15.8	5.37		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-137	3.31	5.37		J
PCB-138/163/164	79.3	16.1		
PCB-139/149	57.7	10.7		
PCB-140	ND	5.37	1.73	U
PCB-141	7.81	5.37		
PCB-142	ND	5.37	0.987	U
PCB-144	ND	5.37	1.56	U
PCB-145	ND	5.37	1.28	U
PCB-146/165	15.1	10.7		
PCB-147	5.95	5.37		
PCB-148	ND	5.37	1.70	U
PCB-150	ND	5.37	1.26	U
PCB-151	25.7	5.37		
PCB-152	ND	5.37	1.24	U
PCB-153	58.0	5.37		
PCB-154	4.39	5.37		J
PCB-155	ND	5.37	1.17	U
PCB-156	6.76	5.37		
PCB-157	1.62	5.37		J
PCB-158/160	5.19	10.7		J
PCB-159	ND	5.37	0.612	U
PCB-166	ND	5.37	0.667	U
PCB-167	2.30	5.37		J
PCB-168	ND	5.37	0.619	U
PCB-169	ND	5.37	0.717	U
PCB-170	10.1	5.37		
PCB-171	ND	5.37	1.97	UM
PCB-172	1.97	5.37		J
PCB-173	ND	5.37	0.747	U
PCB-174	10.3	5.37		
PCB-175	ND	5.37	0.557	U
PCB-176	ND	5.37	0.845	UM
PCB-177	9.70	5.37		
PCB-178	6.45	5.37		
PCB-179	7.60	5.37		

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-WAFO-T170524112421

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 10:35

Sample Data
Matrix: Water
Sample Size: 0.932 L

Laboratory Data
Lab Sample: 1700918-09 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 01-Aug-17 23:21 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	21.2	5.37		
PCB-181	ND	5.37	0.623	U
PCB-182/187	20.5	10.7		
PCB-183	4.44	5.37		J
PCB-184	ND	5.37	0.444	U
PCB-185	1.24	5.37		J
PCB-186	ND	5.37	0.409	U
PCB-188	ND	5.37	0.408	U
PCB-189	ND	5.37	0.371	U
PCB-190	2.70	5.37		J
PCB-191	ND	5.37	0.458	U
PCB-192	ND	5.37	0.488	U
PCB-193	1.22	5.37		J
PCB-194	7.99	5.37		
PCB-195	ND	5.37	2.43	UM
PCB-196/203	9.72	10.7		J
PCB-197	ND	5.37	0.832	U
PCB-198	ND	5.37	1.21	U
PCB-199	ND	13.0	13.0	UM
PCB-200	1.32	5.37		J
PCB-201	1.45	5.37		J
PCB-202	ND	5.37	3.88	UM
PCB-204	ND	5.37	0.934	U
PCB-205	ND	5.37	0.544	U
PCB-206	18.3	5.37		
PCB-207	1.37	5.37		J
PCB-208	6.70	5.37		
PCB-209	4.52	5.37		J
Total monoCB	217			
Total diCB	5320			
Total triCB	3920			
Total tetraCB	3240			
Total pentaCB	1030			
Total hexaCB	358			
Total heptaCB	97.4			

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	20.5			
Total nonaCB	26.4			
DecaCB	4.52			
Total PCB	14200			

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-WAFO-T170524112421

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 23-May-2017 10:35

Sample Data
Matrix: Water
Sample Size: 0.932 L

Laboratory Data
Lab Sample: 1700918-09 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 01-Aug-17 23:21 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	63.9	5 -145	
	13C-PCB-3	61.8	5 -145	
	13C-PCB-4	60.6	5 -145	
	13C-PCB-11	73.2	5 -145	
	13C-PCB-9	61.2	5 -145	
	13C-PCB-19	84.8	5 -145	
	13C-PCB-28	76.6	5 -145	
	13C-PCB-32	101	5 -145	
	13C-PCB-37	87.2	5 -145	
	13C-PCB-47	88.8	5 -145	
	13C-PCB-52	86.6	5 -145	
	13C-PCB-54	80.1	5 -145	
	13C-PCB-70	91.4	5 -145	
	13C-PCB-77	92.7	10 -145	
	13C-PCB-80	89.4	10 -145	
	13C-PCB-81	91.8	10 -145	
	13C-PCB-95	92.6	10 -145	
	13C-PCB-97	94.0	10 -145	
	13C-PCB-101	94.2	10 -145	
	13C-PCB-104	90.6	10 -145	
	13C-PCB-105	107	10 -145	
	13C-PCB-114	107	10 -145	
	13C-PCB-118	93.2	10 -145	
	13C-PCB-123	95.6	10 -145	
	13C-PCB-126	109	10 -145	
	13C-PCB-127	110	10 -145	
	13C-PCB-138	95.4	10 -145	
	13C-PCB-141	94.0	10 -145	
	13C-PCB-153	94.5	10 -145	
	13C-PCB-155	90.2	10 -145	
	13C-PCB-156	91.0	10 -145	
	13C-PCB-157	90.7	10 -145	
	13C-PCB-159	95.5	10 -145	
	13C-PCB-167	94.3	10 -145	
	13C-PCB-169	91.8	10 -145	

	Labeled Standard	%R	LCL-UCL	Qualifiers
	13C-PCB-170	87.3	10 -145	
	13C-PCB-180	89.9	10 -145	
	13C-PCB-188	97.7	10 -145	
	13C-PCB-189	87.9	10 -145	
	13C-PCB-194	95.6	10 -145	
	13C-PCB-202	98.3	10 -145	
	13C-PCB-206	79.4	10 -145	
	13C-PCB-208	76.4	10 -145	
	13C-PCB-209	82.2	10 -145	
CRS	13C-PCB-79	97.5	10 -145	
	13C-PCB-178	99.5	10 -145	

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Client ID: OWS-WAFO-TI70524112421 Filename: 170801E1 S:10 Acq: 1-AUG-17 23:21:59 ConCal: ST170801E1-1

Lab ID: 1700918-09 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.932 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	1.09e+07	3.15	y 16:03	1.36	177.8		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	1.64e+05	2.90	y 18:28	1.30	2.592		*	2.5	*	0.989	0.983-0.993
Mono	PCB-3	2.34e+06	2.99	y 18:42	1.33	36.44		*	2.5	*	1.001	0.996-1.006
Di	PCB-4/10	2.06e+08	1.58	y 20:04	1.32	4780		*	2.5	*	1.002	0.997-1.007
Di	PCB-7/9	6.57e+05	1.39	y 21:52	1.00	12.07		*	2.5	*	0.867	0.864-0.871
Di	PCB-6	2.87e+06	1.55	y 22:32	0.99	53.52		*	2.5	*	0.893	0.888-0.897
Di	PCB-5/8	9.45e+06	1.58	y 22:55	1.03	168.4		*	2.5	*	0.908	0.905-0.915
Di	PCB-14	*	*	n NotFound	1.16	*		2300	2.5	0.706	*	0.948-0.958
Di	PCB-11	1.16e+06	1.36	y 25:15	1.03	16.57		*	2.5	*	1.001	0.996-1.006
Di	PCB-12/13	2.55e+06	1.54	y 25:36	1.03	36.42		*	2.5	*	1.015	1.011-1.021
Di	PCB-15	1.99e+07	1.58	y 25:57	1.17	251.2		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	5.89e+07	1.06	y 24:14	1.52	1126		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	8.00e+04	1.11	y 25:08	2.51	0.9228		*	2.5	*	1.038	1.033-1.043
Tri	PCB-18	2.10e+07	1.07	y 25:52	1.11	299.1		*	2.5	*	0.953	0.949-0.959
Tri	PCB-17	1.76e+07	1.05	y 26:03	1.21	229.1		*	2.5	*	0.960	0.955-0.965
Tri	PCB-24/27	4.02e+07	1.06	y 26:36	1.61	394.0		*	2.5	*	0.980	0.976-0.986
Tri	PCB-16/32	2.58e+07	1.06	y 27:09	1.35	301.6		*	2.5	*	1.001	0.995-1.005
Tri	PCB-34	1.17e+06	1.09	y 27:56	0.98	17.24		*	2.5	*	0.960	0.955-0.965
Tri	PCB-23	8.13e+04	1.07	y 28:02	0.93	1.249		*	2.5	*	0.963	0.958-0.968
Tri	PCB-29	7.95e+04	0.96	y 28:17	0.97	1.176		*	2.5	*	0.972	0.967-0.977
Tri	PCB-26	1.88e+07	1.05	y 28:29	0.96	279.7		*	2.5	*	0.979	0.975-0.985
Tri	PCB-25	5.51e+06	1.06	y 28:39	0.87	90.69		*	2.5	*	0.984	0.980-0.990
Tri	PCB-31	3.77e+07	1.06	y 29:01	1.00	542.1		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	2.59e+07	1.06	y 29:07	0.93	398.4		*	2.5	*	1.000	0.995-1.005
Tri	PCB-20/21/33	3.21e+06	1.02	y 29:45	0.89	52.05		*	2.5	*	1.022	1.017-1.027
Tri	PCB-22	4.87e+06	1.06	y 30:10	0.93	75.20		*	2.5	*	1.037	1.032-1.042
Tri	PCB-36	1.18e+05	1.07	y 30:48	0.94	1.668		*	2.5	*	0.934	0.929-0.939
Tri	PCB-39	4.03e+05	0.95	y 31:16	1.01	5.282		*	2.5	*	0.948	0.943-0.953
Tri	PCB-38	4.82e+05	1.15	y 32:03	0.90	7.057		*	2.5	*	0.972	0.966-0.976
Tri	PCB-35	2.83e+05	1.17	y 32:34	0.89	4.189		*	2.5	*	0.988	0.982-0.992
Tri	PCB-37	7.00e+06	1.10	y 33:00	1.03	89.48		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-54	1.78e+06	0.76	y 27:59	1.17	25.12		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-50	3.62e+05	0.81	y 29:09	0.94	6.367		*	2.5	*	1.042	1.038-1.048
Tetra	PCB-53	1.52e+07	0.79	y 29:49	1.19	244.7		*	2.5	*	0.946	0.941-0.951
Tetra	PCB-51	3.52e+06	0.80	y 30:09	1.25	54.01		*	2.5	*	0.957	0.952-0.962
Tetra	PCB-45	5.07e+06	0.76	y 30:34	1.08	90.60		*	2.5	*	0.970	0.966-0.976
Tetra	PCB-46	1.78e+06	0.76	y 31:04	1.01	33.88		*	2.5	*	0.986	0.981-0.991

Integrations by:

Analyst: MJ

Date: 8/3/17

Reviewed by: [illegible] Date: 8/6/17

Client ID: OWS-WAPO-TI70524112421 Filename: 170801E1 S:10 Acq: 1-AUG-17 23:21:59 ConCal: ST170801E1-1

Lab ID: 1700918-09 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.932 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	3.97e+07	0.79	y 31:32	1.39	550.9		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-73	9.98e+05	0.81	y 31:40	1.51	12.74		*	2.5	*	1.005	1.000-1.010
Tetra	PCB-43/49	2.99e+07	0.78	y 31:50	1.20	479.7		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	1.88e+07	0.78	y 32:03	1.19	276.3		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-48/75	3.41e+06	0.78	y 32:10	1.39	42.93		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	1.43e+05	0.79	y 32:24	1.31	1.909		*	2.5	*	1.012	1.007-1.017
Tetra	PCB-62	*	*	n NotF	1.38	*		2240	2.5	0.581	*	1.011-1.021
Tetra	PCB-44	1.47e+07	0.79	y 32:49	0.96	266.9		*	2.5	*	1.025	1.020-1.030
Tetra	PCB-42/59	9.28e+06	0.79	y 33:03	1.32	122.3		*	2.5	*	1.032	1.027-1.037
Tetra	PCB-41/64/71/72	2.63e+07	0.79	y 33:38	1.38	332.5		*	2.5	*	1.050	1.046-1.056
Tetra	PCB-68	1.13e+06	0.78	y 33:54	1.63	12.14		*	2.5	*	1.058	1.054-1.064
Tetra	PCB-40	2.74e+06	0.80	y 34:07	0.91	52.42		*	2.5	*	1.065	1.061-1.071
Tetra	PCB-57	4.76e+05	0.86	y 34:29	1.23	5.283		*	2.5	*	0.970	0.965-0.975
Tetra	PCB-67	9.10e+05	0.86	y 34:48	1.21	10.23		*	2.5	*	0.979	0.974-0.984
Tetra	PCB-58	1.35e+05	0.81	y 34:54	1.28	1.437		*	2.5	*	0.982	0.977-0.987
Tetra	PCB-63	2.24e+06	0.83	y 35:04	1.30	23.37		*	2.5	*	0.987	0.981-0.991
Tetra	PCB-74	1.04e+07	0.77	y 35:21	1.31	108.2		*	2.5	*	0.995	0.990-1.000
Tetra	PCB-61/70	1.46e+07	0.82	y 35:33	1.23	161.2		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	1.69e+07	0.80	y 35:46	1.29	178.7		*	2.5	*	1.006	1.000-1.010
Tetra	PCB-80	*	*	n NotF	1.49	*		2240	2.5	0.427	*	0.996-1.006
Tetra	PCB-55	3.65e+05	0.80	y 36:16	1.36	3.660		*	2.5	*	1.008	1.004-1.014
Tetra	PCB-56/60	1.11e+07	0.83	y 36:47	1.25	121.0		*	2.5	*	1.023	1.018-1.028
Tetra	PCB-79	1.91e+05	0.82	y 37:52	1.34	1.952		*	2.5	*	1.053	1.048-1.058
Tetra	PCB-78	*	*	n NotF	1.29	*		2240	2.5	0.492	*	0.982-0.992
Tetra	PCB-81	6.93e+04	0.77	y 39:04	1.38	0.6680		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-77	1.81e+06	0.83	y 39:40	1.42	17.58		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	4.70e+04	1.45	y 32:41	1.47	0.8215		*	2.5	*	1.000	0.996-1.006
Penta	PCB-96	3.79e+05	1.49	y 33:56	1.29	7.523		*	2.5	*	1.039	1.034-1.044
Penta	PCB-103	3.31e+05	1.32	y 34:29	1.19	7.152		*	2.5	*	1.055	1.051-1.061
Penta	PCB-100	3.02e+05	1.67	y 34:51	1.18	6.559		*	2.5	*	1.067	1.061-1.071
Penta	PCB-94	4.53e+05	1.66	y 35:19	1.25	11.34		*	2.5	*	0.986	0.981-0.991
Penta	PCB-95/98/102	7.48e+06	1.62	y 35:51	1.40	167.3		*	2.5	*	1.000	0.994-1.004
Penta	PCB-93	*	*	n NotF	1.18	*		2080	2.5	1.69	*	0.998-1.008
Penta	PCB-88/91	2.21e+06	1.58	y 36:15	1.32	52.60		*	2.5	*	1.012	1.006-1.016
Penta	PCB-121	*	*	n NotF	1.89	*		2080	2.5	1.05	*	1.009-1.019
Penta	PCB-84/92	4.29e+06	1.53	y 37:10	1.30	101.9		*	2.5	*	0.991	0.985-0.995
Penta	PCB-89	1.34e+05	1.73	y 37:21	1.23	3.371		*	2.5	*	0.995	0.990-1.000

Analyst: MJ

Date: 8/2/17

Client ID: OWS-WAFO-TI70524112421 Filename: 170801E1 S:10 Acq: 1-AUG-17 23:21:59 ConCal: ST170801E1-1
Lab ID: 1700918-09 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.932 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	6.01e+06	1.59	y	37:32	1.47	126.0		*	2.5	*	1.000	0.995-1.005
Penta	PCB-113	9.96e+04	1.65	y	37:45	1.65	1.853		*	2.5	*	1.006	1.001-1.011
Penta	PCB-99	3.64e+06	1.63	y	37:52	1.48	75.73		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	4.11e+05	1.32	y	38:20	2.25	6.481		*	2.5	*	0.987	0.982-0.992
Penta	PCB-108/112	6.32e+05	1.53	y	38:29	1.71	13.09		*	2.5	*	0.991	0.986-0.996
Penta	PCB-83	*	*	n	NotF╗	2.05	*		2080	2.5	1.09	*	0.990-1.000
Penta	PCB-97	1.77e+06	1.64	y	38:51	1.56	40.08		*	2.5	*	1.001	0.995-1.005
Penta	PCB-86	*	*	n	NotF╗	1.20	*		4400	1.0	1.58	*	0.999-1.009
Penta	PCB-87/117/125	2.81e+06	1.58	y	39:07	1.91	52.29		*	2.5	*	1.008	1.002-1.012
Penta	PCB-111/115	1.85e+05	1.61	y	39:16	2.24	2.932		*	2.5	*	1.011	1.006-1.016
Penta	PCB-85/116	1.36e+06	1.72	y	39:23	1.66	29.00		*	2.5	*	1.014	1.010-1.020
Penta	PCB-120	*	*	n	NotF╗	2.43	*		2080	2.5	0.921	*	1.016-1.026
Penta	PCB-110	8.41e+06	1.56	y	39:46	1.98	151.0		*	2.5	*	1.024	1.019-1.029
Penta	PCB-82	6.38e+05	1.69	y	40:24	0.91	18.37		*	2.5	*	0.976	0.971-0.981
Penta	PCB-124	2.89e+05	1.52	y	41:05	1.59	4.734		*	2.5	*	0.993	0.988-0.998
Penta	PCB-107/109	5.83e+05	1.52	y	41:15	1.58	9.596		*	2.5	*	0.997	0.991-1.001
Penta	PCB-123	1.17e+05	1.74	y	41:24	1.58	1.926		*	2.5	*	1.000	0.996-1.006
Penta	PCB-106/118	5.28e+06	1.53	y	41:34	1.57	84.99		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	2.56e+05	1.77	y	42:13	1.18	3.714		*	2.5	*	1.000	0.995-1.005
Penta	PCB-122	6.86e+04	0.96	n	42:21	1.07	1.095	R	*	2.5	*	1.003	0.999-1.009
Penta	PCB-105	3.18e+06	1.65	y	43:05	1.23	44.84		*	2.5	*	1.000	0.995-1.005
Penta	PCB-127	*	*	n	NotF╗	1.03	*		1940	2.5	0.915	*	0.995-1.005
Penta	PCB-126	*	*	n	NotF╗	1.12	*		1940	2.5	0.928	*	0.995-1.005
Hexa	PCB-155	*	*	n	NotF╗	1.31	*		1740	2.5	1.17	*	0.966-1.006
Hexa	PCB-150	*	*	n	NotF╗	1.22	*		1740	2.5	1.26	*	1.030-1.040
Hexa	PCB-152	*	*	n	NotF╗	1.24	*		1740	2.5	1.24	*	1.042-1.052
Hexa	PCB-145	*	*	n	NotF╗	1.20	*		1740	2.5	1.28	*	1.054-1.064
Hexa	PCB-136	5.94e+05	1.37	y	39:35	1.28	15.80		*	2.5	*	1.068	1.063-1.073
Hexa	PCB-148	*	*	n	NotF╗	0.91	*		1740	2.5	1.70	*	1.066-1.076
Hexa	PCB-154	1.29e+05	1.25	y	40:10	1.00	4.391		*	2.5	*	1.084	1.079-1.089
Hexa	PCB-151	6.93e+05	1.41	y	40:49	0.92	25.75		*	2.5	*	1.101	1.097-1.107
Hexa	PCB-135	4.49e+05	1.14	y	41:01	0.88	17.31		*	2.5	*	1.107	1.101-1.113
Hexa	PCB-144	*	*	n	NotF╗	0.98	*		1740	2.5	1.56	*	1.105-1.116
Hexa	PCB-147	1.51e+05	1.10	y	41:16	0.87	5.953		*	2.5	*	1.113	1.108-1.120
Hexa	PCB-139/149	1.66e+06	1.32	y	41:32	0.98	57.70		*	2.5	*	1.121	1.115-1.127
Hexa	PCB-140	*	*	n	NotF╗	0.89	*		1740	2.5	1.73	*	1.120-1.132
Hexa	PCB-134/143	4.66e+05	1.22	y	42:11	0.95	8.564		*	2.5	*	0.976	0.970-0.980

Analyst: MJ

Date: 8/3/17

Client ID: OWS-WAFO-TI70524112421 Filename: 170801E1 S:10 Acq: 1-AUG-17 23:21:59 ConCal: ST170801E1-1
Lab ID: 1700918-09 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.932 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-131/133	2.81e+05	1.26	y 42:27	0.94	5.198		*	2.5	*	0.982	0.977-0.987
Hexa	PCB-142	*	*	n NotF	0.91	*		1970	2.5	0.987	*	0.981-0.991
Hexa	PCB-146/165	1.02e+06	1.29	y 42:51	1.18	15.11		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	1.40e+06	1.23	y 43:06	1.17	20.82		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	4.01e+06	1.29	y 43:15	1.21	57.96		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-168	*	*	n NotF	1.46	*		1970	2.5	0.619	*	1.000-1.010
Hexa	PCB-141	4.84e+05	1.20	y 44:00	1.30	7.814		*	2.5	*	1.001	0.996-1.006
Hexa	PCB-137	2.09e+05	1.22	y 44:22	1.32	3.306		*	2.5	*	1.009	1.004-1.014
Hexa	PCB-130	3.13e+05	1.15	y 44:27	1.07	6.143		*	2.5	*	1.011	1.007-1.017
Hexa	PCB-138/163/164	5.73e+06	1.27	y 44:51	1.43	79.34		*	2.5	*	1.001	0.996-1.006
Hexa	PCB-158/160	4.12e+05	1.11	y 45:04	1.57	5.186		*	2.5	*	1.006	1.001-1.011
Hexa	PCB-129	1.37e+05	1.49	n 45:19	1.05	2.581	R	*	2.5	*	1.011	1.007-1.017
Hexa	PCB-166	*	*	n NotF	1.31	*		1970	2.5	0.667	*	0.988-0.998
Hexa	PCB-159	*	*	n NotF	1.42	*		1970	2.5	0.612	*	0.995-1.005
Hexa	PCB-128/162	7.81e+05	1.23	y 46:23	1.15	11.12		*	2.5	*	1.006	1.002-1.012
Hexa	PCB-167	1.85e+05	1.27	y 46:47	1.32	2.297		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-156	5.47e+05	1.31	y 48:05	1.38	6.759		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-157	1.30e+05	1.32	y 48:21	1.38	1.624		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-169	*	*	n NotF	1.27	*		1970	2.5	0.717	*	0.995-1.005
Hepta	PCB-188	*	*	n NotF	1.78	*		1580	2.5	0.408	*	0.996-1.006
Hepta	PCB-184	*	*	n NotF	1.63	*		1580	2.5	0.444	*	1.006-1.016
Hepta	PCB-179	4.66e+05	1.14	y 44:07	1.63	7.597		*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	5.62e+04	1.84	n 44:34	1.77	0.8449	R	*	2.5	*	1.040	1.035-1.045
Hepta	PCB-186	*	*	n NotF	1.77	*		1580	2.5	0.409	*	1.049-1.059
Hepta	PCB-178	3.11e+05	1.09	y 45:40	1.28	6.454		*	2.5	*	1.065	1.061-1.071
Hepta	PCB-175	*	*	n NotF	1.30	*		1580	2.5	0.557	*	1.069-1.079
Hepta	PCB-182/187	1.09e+06	1.09	y 46:10	1.41	20.51		*	2.5	*	1.077	1.073-1.083
Hepta	PCB-183	2.53e+05	0.92	y 46:30	1.51	4.438		*	2.5	*	1.085	1.080-1.090
Hepta	PCB-185	5.41e+04	1.05	y 47:09	1.78	1.237		*	2.5	*	0.955	0.951-0.961
Hepta	PCB-174	4.32e+05	1.09	y 47:31	1.70	10.32		*	2.5	*	0.963	0.958-0.968
Hepta	PCB-181	*	*	n NotF	1.80	*		1580	2.5	0.623	*	0.960-0.970
Hepta	PCB-177	3.78e+05	0.98	y 47:47	1.59	9.703		*	2.5	*	0.968	0.964-0.974
Hepta	PCB-171	8.94e+04	1.41	n 48:05	1.84	1.971	R	*	2.5	*	0.974	0.969-0.979
Hepta	PCB-173	*	*	n NotF	1.50	*		1580	2.5	0.747	*	0.978-0.988
Hepta	PCB-172	8.56e+04	0.99	y 48:58	1.77	1.967		*	2.5	*	0.992	0.987-0.997
Hepta	PCB-192	*	*	n NotF	2.29	*		1580	2.5	0.488	*	0.991-1.001
Hepta	PCB-180	9.47e+05	1.01	y 49:21	1.82	21.15		*	2.5	*	1.000	0.995-1.005

Analyst: MJ

Date: 8/3/17

Client ID: OWS-WAFO-TI70524112421 Filename: 170801E1 S:10 Acq: 1-AUG-17 23:21:59 ConCal: ST170801E1-1
Lab ID: 1700918-09 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.932 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hepta	PCB-193	7.12e+04	1.19	y 49:34	2.38	1.217		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-191	*	*	n NotF¶	2.44	*		1580	2.5	0.458	*	1.005-1.015
Hepta	PCB-170	4.07e+05	1.01	y 50:57	1.96	10.07		*	2.5	*	1.000	0.995-1.005
Hepta	PCB-190	1.52e+05	1.06	y 51:07	2.72	2.699		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-189	*	*	n NotF¶	1.97	*		3500	1.0	0.371	*	0.995-1.005
Octa	PCB-202	1.33e+05	1.24	n 48:18	1.29	3.878	R	*	2.5	*	1.001	0.995-1.005
Octa	PCB-201	5.37e+04	0.95	y 48:46	1.40	1.451		*	2.5	*	1.010	1.005-1.015
Octa	PCB-204	*	*	n NotF¶	1.32	*		1480	2.5	0.934	*	1.009-1.019
Octa	PCB-197	*	*	n NotF¶	1.48	*		1480	2.5	0.832	*	1.015-1.025
Octa	PCB-200	4.82e+04	0.99	y 50:07	1.38	1.323		*	2.5	*	1.038	1.034-1.044
Octa	PCB-198	*	*	n NotF¶	1.02	*		1480	2.5	1.21	*	1.063-1.073
Octa	PCB-199	3.22e+05	1.15	n 51:42	0.94	13.02	R	*	2.5	*	1.071	1.065-1.075
Octa	PCB-196/203	2.74e+05	0.80	y 52:00	1.07	9.720		*	2.5	*	1.077	1.071-1.081
Octa	PCB-195	9.44e+04	1.12	n 53:13	1.01	2.427	R	*	2.5	*	0.984	0.979-0.989
Octa	PCB-194	3.42e+05	0.86	y 54:06	1.11	7.992		*	2.5	*	1.000	0.995-1.005
Octa	PCB-205	*	*	n NotF¶	1.43	*		1920	2.5	0.544	*	1.000-1.010
Nona	PCB-208	3.85e+05	1.32	y 53:22	1.16	6.697		*	2.5	*	1.000	0.995-1.005
Nona	PCB-207	8.05e+04	1.46	y 53:41	1.18	1.373		*	2.5	*	1.006	1.001-1.011
Nona	PCB-206	7.10e+05	1.35	y 55:39	0.98	18.28		*	2.5	*	1.000	0.995-1.005
Deca	PCB-209	2.53e+05	1.27	y 56:58	1.56	4.515		*	2.5	*	1.000	0.995-1.005

Analyst: MJ

Date: 8/3/17

Client ID: OWS-WAFO-TI70524112421 Filename: 170801E1 S:10 Acq: 1-AUG-17 23:21:59 ConCal: ST170801E1-1
Lab ID: 1700918-09 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.932 EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	1.34e+07	3.15 y	16:03	1.33	216.813	
Total Di-PCB	2.43e+08	1.58 y	20:04	1.05	5318.44	
Total Tri-PCB	1.64e+08	1.06 y	24:14	1.54	2350.53	
Total Tri-PCB	1.06e+08	1.09 y	27:56	0.94	1565.43	Sum:3915.96
Total Tetra-PCB	2.34e+08	0.76 y	27:59	1.25	3238.78	
Total Penta-PCB	4.79e+07	1.45 y	32:41	1.47	976.619	
Total Penta-PCB	3.44e+06	1.77 y	42:13	1.13	48.5583	Sum:1025.18
Total Hexa-PCB	3.68e+06	1.37 y	39:35	1.05	126.899	
Total Hexa-PCB	1.60e+07	1.22 y	42:11	1.23	231.241	Sum:358.140
Total Hepta-PCB	4.64e+06	1.14 y	44:07	1.72	97.3661	
Total Octa-PCB	3.76e+05	0.95 y	48:46	1.22	12.4944	
Total Octa-PCB	3.42e+05	0.86 y	54:06	1.18	7.99249	Sum:20.4869
Total Nona-PCB	1.18e+06	1.32 y	53:22	1.12	26.3510	
Total Deca-PCB	2.53e+05	1.27 y	56:58	1.56	4.51510	

Total PCB Conc:14247.8433850

Integrations
by
Analyst: MJ
Date: 8/3/17

Client ID: OWS-WAFO-TI70524112421 Filename: 170801E1 S:10 Acq: 1-AUG-17 23:21:59 ConCal: ST170801E1-1
Lab ID: 1700918-09 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:0.9316 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	9.65e+07	3.27 y	0.70	16:02	0.618	0.617	0.623	1370	63.9
13C-PCB-3	1.04e+08	3.24 y	0.79	18:41	0.720	0.717	0.725	1330	61.8
13C-PCB-4	7.01e+07	1.58 y	0.54	20:02	0.772	0.769	0.777	1300	60.6
13C-PCB-9	1.17e+08	1.58 y	0.89	21:50	0.842	0.838	0.846	1310	61.2
13C-PCB-11	1.46e+08	1.56 y	0.93	25:14	0.973	0.968	0.978	1570	73.2
13C-PCB-19	7.41e+07	1.07 y	0.41	24:12	0.933	0.928	0.938	1820	84.8
13C-PCB-28	1.50e+08	1.04 y	1.04	29:06	1.004	0.999	1.009	1640	76.6
13C-PCB-32	1.36e+08	1.07 y	0.63	27:08	1.046	1.041	1.051	2170	101
13C-PCB-37	1.63e+08	1.07 y	1.00	32:59	1.137	1.132	1.144	1870	87.2
13C-PCB-47	1.23e+08	0.81 y	0.80	32:02	0.871	0.867	0.875	1910	88.8
13C-PCB-52	1.12e+08	0.80 y	0.74	31:31	0.857	0.853	0.861	1860	86.6
13C-PCB-54	1.30e+08	0.79 y	0.94	27:58	0.760	0.757	0.765	1720	80.1
13C-PCB-70	1.58e+08	0.80 y	0.99	35:33	0.966	0.961	0.971	1960	91.4
13C-PCB-77	1.56e+08	0.80 y	0.97	39:39	1.078	1.073	1.083	1990	92.7
13C-PCB-80	1.57e+08	0.80 y	1.01	35:58	0.978	0.973	0.983	1920	89.4
13C-PCB-81	1.61e+08	0.80 y	1.01	39:03	1.062	1.057	1.067	1970	91.8
13C-PCB-95	6.85e+07	1.67 y	0.80	35:50	0.913	0.908	0.918	1990	92.6
13C-PCB-97	6.04e+07	1.63 y	0.70	38:49	0.989	0.984	0.994	2020	94.0
13C-PCB-101	6.97e+07	1.65 y	0.81	37:31	0.956	0.951	0.961	2020	94.2
13C-PCB-104	8.38e+07	1.62 y	1.01	32:40	0.832	0.828	0.836	1940	90.6
13C-PCB-105	1.24e+08	1.62 y	1.18	43:04	0.929	0.924	0.934	2290	107
13C-PCB-114	1.25e+08	1.63 y	1.18	42:13	0.911	0.905	0.915	2300	107
13C-PCB-118	8.50e+07	1.65 y	0.99	41:34	1.059	1.054	1.064	2000	93.2
13C-PCB-123	8.23e+07	1.67 y	0.94	41:23	1.054	1.049	1.059	2050	95.6
13C-PCB-126	1.26e+08	1.60 y	1.17	45:18	0.977	0.972	0.982	2340	109
13C-PCB-127	1.37e+08	1.60 y	1.26	43:25	0.936	0.931	0.941	2360	110
13C-PCB-138	1.09e+08	1.28 y	1.15	44:48	0.966	0.961	0.971	2050	95.4
13C-PCB-141	1.02e+08	1.28 y	1.11	43:58	0.949	0.943	0.953	2020	94.0
13C-PCB-153	1.23e+08	1.27 y	1.32	43:14	0.933	0.927	0.937	2030	94.5
13C-PCB-155	6.31e+07	1.29 y	0.76	37:04	0.944	0.939	0.949	1940	90.2
13C-PCB-156	1.26e+08	1.28 y	1.40	48:04	1.037	1.032	1.042	1950	91.0
13C-PCB-157	1.25e+08	1.28 y	1.40	48:20	1.042	1.038	1.048	1950	90.7
13C-PCB-159	1.31e+08	1.27 y	1.39	46:06	0.994	0.989	0.999	2050	95.5
13C-PCB-167	1.31e+08	1.26 y	1.41	46:46	1.009	1.004	1.014	2020	94.3
13C-PCB-169	1.25e+08	1.26 y	1.38	50:32	1.090	1.085	1.095	1970	91.8
13C-PCB-170	4.43e+07	0.46 y	0.83	50:56	1.103	1.093	1.103	1870	87.3
13C-PCB-180	5.28e+07	0.47 y	0.96	49:21	1.068	1.059	1.069	1930	89.9
13C-PCB-188	8.08e+07	0.45 y	1.36	42:52	0.928	0.919	0.929	2100	97.7
13C-PCB-189	6.21e+07	0.46 y	1.16	52:32	1.137	1.125	1.137	1890	87.9
13C-PCB-194	8.27e+07	0.90 y	0.74	54:06	0.995	0.990	1.000	2050	95.6
13C-PCB-202	5.67e+07	0.90 y	0.95	48:16	1.045	1.036	1.046	2110	98.3
13C-PCB-206	8.48e+07	0.80 y	0.91	55:39	1.024	1.019	1.029	1700	79.4
13C-PCB-208	1.07e+08	0.77 y	1.19	53:21	0.981	0.977	0.987	1640	76.4
13C-PCB-209	7.71e+07	1.22 y	0.80	56:57	1.048	1.044	1.054	1760	82.2

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.73e+08	0.80 y	1.02	37:51	1.029	1.024	1.033	2090	97.5
13C-PCB-178	5.47e+07	0.46 y	0.90	45:39	0.985	0.980	0.989	2140	99.5

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.73e+08	0.80 y	1.01	37:51	0.969	0.963	0.973	2280	106
13C-PCB-178	5.47e+07	0.46 y	0.94	45:39	0.925	0.920	0.930	2380	111

RS

Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	2.14e+08	1.57 y	1.00	25:56	2150
13C-PCB-31	1.87e+08	1.05 y	1.00	28:60	2150
13C-PCB-60	1.73e+08	0.79 y	1.00	36:47	2150
13C-PCB-111	9.19e+07	1.66 y	1.00	39:16	2150
13C-PCB-128	9.86e+07	1.29 y	1.00	46:22	2150
13C-PCB-182	6.09e+07	0.47 y	1.00	46:11	2150
13C-PCB-205	1.18e+08	0.92 y	1.00	54:22	2150

Analyst: MJ

Date: 8/3/17

Sample ID: OWS-WAFO-T170531111136

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 31-May-2017 9:42

Sample Data
Matrix: Water
Sample Size: 0.989 L

Laboratory Data
Lab Sample: 1700918-10 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 02-Aug-17 00:27 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	442	5.06		
PCB-2	5.79	5.06		
PCB-3	84.2	5.06		
PCB-4/10	4350	10.1		
PCB-5/8	352	10.1		
PCB-6	105	5.06		
PCB-7/9	28.0	10.1		
PCB-11	22.3	5.06		
PCB-12/13	71.1	10.1		
PCB-14	ND	5.06	0.796	U
PCB-15	364	5.06		
PCB-16/32	336	10.1		
PCB-17	251	5.06		
PCB-18	323	5.06		
PCB-19	1080	5.06		
PCB-20/21/33	116	15.2		
PCB-22	162	5.06		
PCB-23	1.08	5.06		J
PCB-24/27	445	10.1		
PCB-25	126	5.06		
PCB-26	333	5.06		
PCB-28	623	5.06		
PCB-29	2.30	5.06		J
PCB-30	0.686	5.06		J
PCB-31	732	5.06		
PCB-34	22.7	5.06		
PCB-35	7.96	5.06		
PCB-36	1.98	5.06		J
PCB-37	154	5.06		
PCB-38	10.4	5.06		
PCB-39	8.44	5.06		
PCB-40	59.2	5.06		
PCB-41/64/71/72	421	20.2		
PCB-42/59	152	10.1		
PCB-43/49	577	10.1		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-44	309	5.06		
PCB-45	96.8	5.06		
PCB-46	32.5	5.06		
PCB-47	357	5.06		
PCB-48/75	56.2	10.1		
PCB-50	6.75	5.06		
PCB-51	61.7	5.06		
PCB-52/69	662	10.1		
PCB-53	276	5.06		
PCB-54	27.0	5.06		
PCB-55	6.54	5.06		
PCB-56/60	206	10.1		
PCB-57	9.38	5.06		
PCB-58	1.52	5.06		J
PCB-61/70	264	10.1		
PCB-62	ND	5.06	0.748	U
PCB-63	35.4	5.06		
PCB-65	ND	5.06	0.791	U
PCB-66/76	313	10.1		
PCB-67	17.2	5.06		
PCB-68	15.9	5.06		
PCB-73	15.8	5.06		
PCB-74	176	5.06		
PCB-77	30.5	5.06		
PCB-78	ND	5.06	0.733	U
PCB-79	2.43	5.06		J
PCB-80	ND	5.06	0.573	U
PCB-81	ND	5.06	1.49	UM
PCB-82	26.1	5.06		
PCB-83	ND	5.06	1.37	U
PCB-84/92	134	10.1		
PCB-85/116	42.7	10.1		
PCB-86	ND	5.06	1.27	UM
PCB-87/117/125	75.8	15.2		
PCB-88/91	72.3	5.06		

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-WAFO-T170531111136

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 31-May-2017 9:42

Sample Data
Matrix: Water
Sample Size: 0.989 L

Laboratory Data
Lab Sample: 1700918-10 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 02-Aug-17 00:27 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	3.51	5.06		J
PCB-90/101	181	10.1		
PCB-93	ND	5.06	2.06	U
PCB-94	15.4	5.06		
PCB-95/98/102	220	15.2		
PCB-96	8.95	5.06		
PCB-97	56.0	5.06		
PCB-99	110	5.06		
PCB-100	9.10	5.06		
PCB-103	8.83	5.06		
PCB-104	ND	5.06	0.709	UM
PCB-105	77.2	5.06		
PCB-106/118	140	10.1		
PCB-107/109	15.9	10.1		
PCB-108/112	19.5	10.1		
PCB-110	222	5.06		
PCB-111/115	4.84	10.1		J
PCB-113	ND	5.06	1.52	U
PCB-114	6.09	5.06		
PCB-119	9.13	5.06		
PCB-120	1.26	5.06		J
PCB-121	ND	5.06	1.28	U
PCB-122	2.51	5.06		J
PCB-123	3.52	5.06		J
PCB-124	6.87	5.06		
PCB-126	1.10	5.06		J
PCB-127	ND	5.06	1.26	U
PCB-128/162	17.7	10.1		
PCB-129	ND	5.48	5.48	UM
PCB-130	10.1	5.06		
PCB-131/133	9.00	10.1		J
PCB-132/161	33.3	10.1		
PCB-134/143	11.7	10.1		
PCB-135	26.8	5.06		
PCB-136	21.1	5.06		

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-137	6.55	5.06		
PCB-138/163/164	129	15.2		
PCB-139/149	86.7	10.1		
PCB-140	ND	5.06	2.10	U
PCB-141	13.2	5.06		
PCB-142	ND	5.06	1.50	U
PCB-144	1.54	5.06		J
PCB-145	ND	5.06	1.56	U
PCB-146/165	23.3	10.1		
PCB-147	8.18	5.06		
PCB-148	ND	5.06	2.06	U
PCB-150	ND	5.06	1.53	U
PCB-151	37.7	5.06		
PCB-152	ND	5.06	1.50	U
PCB-153	91.6	5.06		
PCB-154	6.61	5.06		
PCB-155	ND	5.06	1.42	U
PCB-156	10.6	5.06		
PCB-157	2.58	5.06		J
PCB-158/160	10.7	10.1		
PCB-159	ND	5.06	0.875	U
PCB-166	ND	5.06	0.954	U
PCB-167	4.26	5.06		J
PCB-168	ND	5.06	0.943	U
PCB-169	ND	5.06	1.02	U
PCB-170	15.4	5.06		
PCB-171	5.38	5.06		
PCB-172	3.90	5.06		J
PCB-173	ND	5.06	1.25	U
PCB-174	15.6	5.06		
PCB-175	1.00	5.06		J
PCB-176	2.44	5.06		J
PCB-177	14.4	5.06		
PCB-178	11.9	5.06		
PCB-179	11.1	5.06		

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-WAFO-T170531111136

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 31-May-2017 9:42

Sample Data
Matrix: Water
Sample Size: 0.989 L

Laboratory Data
Lab Sample: 1700918-10 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 02-Aug-17 00:27 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	31.6	5.06		
PCB-181	ND	5.06	1.04	U
PCB-182/187	32.1	10.1		
PCB-183	6.76	5.06		
PCB-184	ND	5.06	0.839	U
PCB-185	1.68	5.06		J
PCB-186	ND	5.06	0.772	U
PCB-188	ND	5.06	0.770	U
PCB-189	0.791	5.06		J
PCB-190	4.01	5.06		J
PCB-191	ND	5.06	0.764	U
PCB-192	ND	5.06	0.814	U
PCB-193	2.08	5.06		J
PCB-194	12.2	5.06		
PCB-195	4.48	5.06		J
PCB-196/203	13.2	10.1		
PCB-197	ND	5.06	1.36	U
PCB-198	ND	5.06	1.98	U
PCB-199	16.8	5.06		
PCB-200	1.11	5.06		J
PCB-201	1.63	5.06		J
PCB-202	5.31	5.06		
PCB-204	ND	5.06	1.52	U
PCB-205	0.551	5.06		J
PCB-206	14.7	5.06		
PCB-207	ND	5.06	1.49	UM
PCB-208	5.55	5.06		
PCB-209	5.23	5.06		
Total monoCB	531			
Total diCB	5290			
Total triCB	4740			
Total tetraCB	4190			
Total pentaCB	1470			
Total hexaCB	562			
Total heptaCB	160			

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	55.2			
Total nonaCB	20.3			
DecaCB	5.23			
Total PCB	17000			

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OWS-WAFO-T170531111136

EPA Method 1668C

Client Data
Name: GE Energy
Project: Hudson River RAMP
Date Collected: 31-May-2017 9:42

Sample Data
Matrix: Water
Sample Size: 0.989 L

Laboratory Data
Lab Sample: 1700918-10 Date Received: 21-Jul-2017 9:12
QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40
Date Analyzed : 02-Aug-17 00:27 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	68.2	5 -145	
	13C-PCB-3	65.4	5 -145	
	13C-PCB-4	63.4	5 -145	
	13C-PCB-11	68.6	5 -145	
	13C-PCB-9	66.8	5 -145	
	13C-PCB-19	84.8	5 -145	
	13C-PCB-28	73.8	5 -145	
	13C-PCB-32	87.5	5 -145	
	13C-PCB-37	79.7	5 -145	
	13C-PCB-47	88.2	5 -145	
	13C-PCB-52	87.4	5 -145	
	13C-PCB-54	78.3	5 -145	
	13C-PCB-70	88.1	5 -145	
	13C-PCB-77	85.7	10 -145	
	13C-PCB-80	87.5	10 -145	
	13C-PCB-81	84.3	10 -145	
	13C-PCB-95	92.2	10 -145	
	13C-PCB-97	88.1	10 -145	
	13C-PCB-101	88.0	10 -145	
	13C-PCB-104	93.5	10 -145	
	13C-PCB-105	103	10 -145	
	13C-PCB-114	102	10 -145	
	13C-PCB-118	89.4	10 -145	
	13C-PCB-123	89.1	10 -145	
	13C-PCB-126	106	10 -145	
	13C-PCB-127	104	10 -145	
	13C-PCB-138	89.5	10 -145	
	13C-PCB-141	87.3	10 -145	
	13C-PCB-153	86.8	10 -145	
	13C-PCB-155	80.2	10 -145	
	13C-PCB-156	89.9	10 -145	
	13C-PCB-157	90.4	10 -145	
	13C-PCB-159	90.6	10 -145	
	13C-PCB-167	89.6	10 -145	
	13C-PCB-169	90.8	10 -145	

	Labeled Standard	%R	LCL-UCL	Qualifiers
	13C-PCB-170	90.7	10 -145	
	13C-PCB-180	93.3	10 -145	
	13C-PCB-188	90.1	10 -145	
	13C-PCB-189	92.3	10 -145	
	13C-PCB-194	90.8	10 -145	
	13C-PCB-202	103	10 -145	
	13C-PCB-206	73.0	10 -145	
	13C-PCB-208	72.6	10 -145	
	13C-PCB-209	74.6	10 -145	
CRS	13C-PCB-79	93.4	10 -145	
	13C-PCB-178	101	10 -145	

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Client ID: OWS-WAFO-TI70531111136 Filename: 170801E1 S:11 Acq: 2-AUG-17 00:27:05 ConCal: ST170801E1-1

Lab ID: 1700918-010 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.989 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	2.44e+07	3.09	y 16:03	1.36	441.5		2570	2.5	1.48	1.001	0.996-1.006
Mono	PCB-2	3.28e+05	3.21	y 18:28	1.30	5.794		2570	2.5	1.52	0.989	0.983-0.993
Mono	PCB-3	4.85e+06	3.15	y 18:41	1.33	84.18		2570	2.5	1.50	1.000	0.996-1.006
Di	PCB-4/10	1.66e+08	1.59	y 20:03	1.32	4349		*	2.5	*	1.001	0.997-1.007
Di	PCB-7/9	1.41e+06	1.60	y 21:51	1.00	28.03		*	2.5	*	0.866	0.864-0.871
Di	PCB-6	5.21e+06	1.55	y 22:31	0.99	105.1		*	2.5	*	0.893	0.888-0.897
Di	PCB-5/8	1.83e+07	1.60	y 22:55	1.03	352.5		*	2.5	*	0.909	0.905-0.915
Di	PCB-14	*	*	n NotFound	1.16	*		5030	1.0	0.796	*	0.948-0.958
Di	PCB-11	1.24e+06	1.59	y 25:15	1.03	22.29		*	2.5	*	1.001	0.996-1.006
Di	PCB-12/13	3.95e+06	1.57	y 25:36	1.03	71.08		*	2.5	*	1.015	1.011-1.021
Di	PCB-15	2.29e+07	1.60	y 25:56	1.17	363.6		*	2.5	*	1.028	1.023-1.033
Tri	PCB-19	4.80e+07	1.06	y 24:13	1.52	1084		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	5.03e+04	1.04	y 25:06	2.51	0.6860		*	2.5	*	1.037	1.033-1.043
Tri	PCB-18	1.67e+07	1.06	y 25:52	1.11	323.5		*	2.5	*	0.954	0.949-0.959
Tri	PCB-17	1.41e+07	1.06	y 26:02	1.21	250.7		*	2.5	*	0.960	0.955-0.965
Tri	PCB-24/27	3.33e+07	1.06	y 26:36	1.61	444.9		*	2.5	*	0.981	0.976-0.986
Tri	PCB-16/32	2.11e+07	1.09	y 27:08	1.35	336.2		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	1.31e+06	1.05	y 27:57	0.98	22.66		*	2.5	*	0.961	0.955-0.965
Tri	PCB-23	5.94e+04	1.00	y 28:02	0.93	1.077		*	2.5	*	0.964	0.958-0.968
Tri	PCB-29	1.32e+05	0.95	y 28:16	0.97	2.300		*	2.5	*	0.972	0.967-0.977
Tri	PCB-26	1.89e+07	1.08	y 28:29	0.96	333.0		*	2.5	*	0.979	0.975-0.985
Tri	PCB-25	6.49e+06	1.05	y 28:39	0.87	126.2		*	2.5	*	0.985	0.980-0.990
Tri	PCB-31	4.31e+07	1.03	y 29:00	1.00	731.8		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	3.43e+07	1.07	y 29:06	0.93	622.5		*	2.5	*	1.000	0.995-1.005
Tri	PCB-20/21/33	6.08e+06	1.09	y 29:44	0.89	116.5		*	2.5	*	1.022	1.017-1.027
Tri	PCB-22	8.89e+06	1.06	y 30:09	0.93	162.0		*	2.5	*	1.036	1.032-1.042
Tri	PCB-36	1.13e+05	1.14	y 30:47	0.94	1.982		*	2.5	*	0.934	0.929-0.939
Tri	PCB-39	5.17e+05	1.02	y 31:15	1.01	8.437		*	2.5	*	0.948	0.943-0.953
Tri	PCB-38	5.72e+05	1.07	y 32:02	0.90	10.42		*	2.5	*	0.972	0.966-0.976
Tri	PCB-35	4.32e+05	0.96	y 32:33	0.89	7.963		*	2.5	*	0.988	0.982-0.992
Tri	PCB-37	9.71e+06	1.05	y 32:59	1.03	154.4		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-54	1.52e+06	0.82	y 27:59	1.17	26.98		*	2.5	*	1.001	0.996-1.006
Tetra	PCB-50	3.03e+05	0.70	y 29:08	0.94	6.747		*	2.5	*	1.042	1.038-1.048
Tetra	PCB-53	1.40e+07	0.81	y 29:48	1.19	275.8		*	2.5	*	0.946	0.941-0.951
Tetra	PCB-51	3.29e+06	0.83	y 30:08	1.25	61.70		*	2.5	*	0.957	0.952-0.962
Tetra	PCB-45	4.42e+06	0.77	y 30:34	1.08	96.76		*	2.5	*	0.970	0.966-0.976
Tetra	PCB-46	1.39e+06	0.76	y 31:03	1.01	32.48		*	2.5	*	0.986	0.981-0.991

Integrations by:

Analyst: MJ

Date: 8/4/17

Reviewed by: [illegible] Date: 8/6/17

Client ID: OWS-WAFO-TI70531111136 Filename: 170801E1 S:11 Acq: 2-AUG-17 00:27:05 ConCal: ST170801E1-1

Lab ID: 1700918-010 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.989 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Tetra	PCB-52/69	3.90e+07	0.78	y 31:31	1.39	662.0		*	2.5	*	1.000	0.996-1.006
Tetra	PCB-73	1.01e+06	0.83	y 31:40	1.51	15.76		*	2.5	*	1.005	1.000-1.010
Tetra	PCB-43/49	2.94e+07	0.78	y 31:49	1.20	577.3		*	2.5	*	1.010	1.005-1.015
Tetra	PCB-47	1.96e+07	0.78	y 32:02	1.19	357.3		*	2.5	*	1.001	0.995-1.005
Tetra	PCB-48/75	3.59e+06	0.73	y 32:09	1.39	56.20		*	2.5	*	1.004	0.999-1.009
Tetra	PCB-65	*	*	n NotF	1.31	*		2280	2.5	0.791	*	1.007-1.017
Tetra	PCB-62	*	*	n NotF	1.38	*		2280	2.5	0.748	*	1.011-1.021
Tetra	PCB-44	1.37e+07	0.76	y 32:50	0.96	309.2		*	2.5	*	1.026	1.020-1.030
Tetra	PCB-42/59	9.27e+06	0.82	y 33:03	1.32	151.8		*	2.5	*	1.032	1.027-1.037
Tetra	PCB-41/64/71/72	2.68e+07	0.79	y 33:39	1.38	421.4		*	2.5	*	1.051	1.046-1.056
Tetra	PCB-68	1.20e+06	0.78	y 33:53	1.63	15.93		*	2.5	*	1.058	1.054-1.064
Tetra	PCB-40	2.49e+06	0.76	y 34:06	0.91	59.24		*	2.5	*	1.065	1.061-1.071
Tetra	PCB-57	6.60e+05	0.78	y 34:29	1.23	9.381		*	2.5	*	0.970	0.965-0.975
Tetra	PCB-67	1.19e+06	0.83	y 34:47	1.21	17.15		*	2.5	*	0.979	0.974-0.984
Tetra	PCB-58	1.11e+05	0.76	y 34:54	1.28	1.519		*	2.5	*	0.982	0.977-0.987
Tetra	PCB-63	2.65e+06	0.76	y 35:03	1.30	35.38		*	2.5	*	0.986	0.981-0.991
Tetra	PCB-74	1.32e+07	0.79	y 35:20	1.31	175.7		*	2.5	*	0.994	0.990-1.000
Tetra	PCB-61/70	1.87e+07	0.78	y 35:32	1.23	264.1		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-76/66	2.31e+07	0.79	y 35:45	1.29	313.4		*	2.5	*	1.006	1.000-1.010
Tetra	PCB-80	*	*	n NotF	1.49	*		2280	2.5	0.573	*	0.996-1.006
Tetra	PCB-55	5.16e+05	0.86	y 36:17	1.36	6.544		*	2.5	*	1.009	1.004-1.014
Tetra	PCB-56/60	1.49e+07	0.79	y 36:46	1.25	205.5		*	2.5	*	1.023	1.018-1.028
Tetra	PCB-79	1.88e+05	0.69	y 37:51	1.34	2.431		*	2.5	*	1.053	1.048-1.058
Tetra	PCB-78	*	*	n NotF	1.29	*		2280	2.5	0.733	*	0.982-0.992
Tetra	PCB-81	1.15e+05	0.76	y 39:02	1.38	1.487		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-77	2.35e+06	0.79	y 39:39	1.42	30.53		*	2.5	*	1.000	0.995-1.005
Penta	PCB-104	3.16e+04	0.88	n 32:41	1.47	0.7085	R	*	2.5	*	1.001	0.996-1.006
Penta	PCB-96	3.51e+05	1.58	y 33:57	1.29	8.949		*	2.5	*	1.040	1.034-1.044
Penta	PCB-103	3.19e+05	1.52	y 34:29	1.19	8.831		*	2.5	*	1.056	1.051-1.061
Penta	PCB-100	3.26e+05	1.58	y 34:50	1.18	9.097		*	2.5	*	1.067	1.061-1.071
Penta	PCB-94	4.63e+05	1.45	y 35:19	1.25	15.41		*	2.5	*	0.986	0.981-0.991
Penta	PCB-95/98/102	7.40e+06	1.60	y 35:50	1.40	220.1		*	2.5	*	1.000	0.994-1.004
Penta	PCB-93	*	*	n NotF	1.18	*		1790	2.5	2.06	*	0.998-1.008
Penta	PCB-88/91	2.29e+06	1.55	y 36:14	1.32	72.28		*	2.5	*	1.012	1.006-1.016
Penta	PCB-121	*	*	n NotF	1.89	*		1790	2.5	1.28	*	1.009-1.019
Penta	PCB-84/92	3.98e+06	1.60	y 37:09	1.30	134.0		*	2.5	*	0.990	0.985-0.995
Penta	PCB-89	9.87e+04	1.68	y 37:20	1.23	3.512		*	2.5	*	0.995	0.990-1.000

Analyst: M

Date: 8/4/17

Client ID: OWS-WAFO-TI70531111136 Filename: 170801E1 S:11 Acq: 2-AUG-17 00:27:05 ConCal: ST170801E1-1
Lab ID: 1700918-010 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.989 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Penta	PCB-90/101	6.10e+06	1.62	y 37:32	1.47	181.5		*	2.5	*	1.000	0.995-1.005
Penta	PCB-113	*	*	n NotF╗	1.65	*		1790	2.5	1.52	*	1.001-1.011
Penta	PCB-99	3.73e+06	1.56	y 37:51	1.48	109.9		*	2.5	*	1.009	1.004-1.014
Penta	PCB-119	4.10e+05	1.76	y 38:19	2.25	9.131		*	2.5	*	0.987	0.982-0.992
Penta	PCB-108/112	6.66e+05	1.51	y 38:28	1.71	19.50		*	2.5	*	0.991	0.986-0.996
Penta	PCB-83	*	*	n NotF╗	2.05	*		1790	2.5	1.37	*	0.990-1.000
Penta	PCB-97	1.75e+06	1.56	y 38:50	1.56	56.04		*	2.5	*	1.001	0.995-1.005
Penta	PCB-86	3.04e+04	1.09	n 38:58	1.20	1.272	R	*	2.5	*	1.004	0.999-1.009
Penta	PCB-87/117/125	2.88e+06	1.65	y 39:07	1.91	75.79		*	2.5	*	1.008	1.002-1.012
Penta	PCB-111/115	2.16e+05	1.52	y 39:15	2.24	4.844		*	2.5	*	1.011	1.006-1.016
Penta	PCB-85/116	1.41e+06	1.52	y 39:22	1.66	42.70		*	2.5	*	1.014	1.010-1.020
Penta	PCB-120	6.09e+04	1.75	y 39:37	2.43	1.258		*	2.5	*	1.021	1.016-1.026
Penta	PCB-110	8.75e+06	1.67	y 39:46	1.98	222.2		*	2.5	*	1.025	1.019-1.029
Penta	PCB-82	6.38e+05	1.68	y 40:23	0.91	26.07		*	2.5	*	0.976	0.971-0.981
Penta	PCB-124	2.95e+05	1.45	y 41:04	1.59	6.866		*	2.5	*	0.993	0.988-0.998
Penta	PCB-107/109	6.80e+05	1.59	y 41:14	1.58	15.91		*	2.5	*	0.997	0.991-1.001
Penta	PCB-123	1.50e+05	1.71	y 41:23	1.58	3.516		*	2.5	*	1.000	0.996-1.006
Penta	PCB-106/118	6.32e+06	1.63	y 41:34	1.57	140.4		*	2.5	*	1.000	0.996-1.006
Penta	PCB-114	3.26e+05	1.49	y 42:14	1.18	6.088		*	2.5	*	1.001	0.995-1.005
Penta	PCB-122	1.22e+05	1.41	y 42:22	1.07	2.508		*	2.5	*	1.004	0.999-1.009
Penta	PCB-105	4.33e+06	1.48	y 43:04	1.23	77.17		*	2.5	*	1.000	0.995-1.005
Penta	PCB-127	*	*	n NotF╗	1.03	*		1880	2.5	1.26	*	0.995-1.005
Penta	PCB-126	5.71e+04	1.51	y 45:19	1.12	1.101		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-155	*	*	n NotF╗	1.31	*		1350	2.5	1.42	*	0.966-1.006
Hexa	PCB-150	*	*	n NotF╗	1.22	*		1350	2.5	1.53	*	1.030-1.040
Hexa	PCB-152	*	*	n NotF╗	1.24	*		1350	2.5	1.50	*	1.042-1.052
Hexa	PCB-145	*	*	n NotF╗	1.20	*		1350	2.5	1.56	*	1.054-1.064
Hexa	PCB-136	5.32e+05	1.41	y 39:34	1.28	21.10		*	2.5	*	1.068	1.063-1.073
Hexa	PCB-148	*	*	n NotF╗	0.91	*		1350	2.5	2.06	*	1.066-1.076
Hexa	PCB-154	1.30e+05	1.11	y 40:11	1.00	6.609		*	2.5	*	1.085	1.079-1.089
Hexa	PCB-151	6.81e+05	1.08	y 40:48	0.92	37.70		*	2.5	*	1.101	1.097-1.107
Hexa	PCB-135	4.67e+05	1.12	y 41:02	0.88	26.80		*	2.5	*	1.107	1.101-1.113
Hexa	PCB-144	2.99e+04	1.22	y 41:09	0.98	1.539		*	2.5	*	1.111	1.105-1.116
Hexa	PCB-147	1.40e+05	1.33	y 41:17	0.87	8.183		*	2.5	*	1.114	1.108-1.120
Hexa	PCB-139/149	1.68e+06	1.38	y 41:31	0.98	86.75		*	2.5	*	1.120	1.115-1.127
Hexa	PCB-140	*	*	n NotF╗	0.89	*		1350	2.5	2.10	*	1.120-1.132
Hexa	PCB-134/143	4.78e+05	1.08	y 42:10	0.95	11.72		*	2.5	*	0.975	0.970-0.980

Analyst: MJ

Date: 8/4/17

Client ID: OWS-WAFO-TI705311111136 Filename: 170801E1 S:11 Acq: 2-AUG-17 00:27:05 ConCal: ST170801E1-1
Lab ID: 1700918-010 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.989 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-131/133	3.64e+05	1.18	y	42:26	0.94	8.998		*	2.5	*	0.982	0.977-0.987
Hexa	PCB-142	*	*	n	NotF¶	0.91	*		2100	2.5	1.50	*	0.981-0.991
Hexa	PCB-146/165	1.17e+06	1.08	y	42:51	1.18	23.29		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	1.67e+06	1.21	y	43:06	1.17	33.27		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	4.75e+06	1.28	y	43:15	1.21	91.63		*	2.5	*	1.001	0.995-1.005
Hexa	PCB-168	*	*	n	NotF¶	1.46	*		2100	2.5	0.943	*	1.000-1.010
Hexa	PCB-141	6.22e+05	1.31	y	43:59	1.30	13.24		*	2.5	*	1.001	0.996-1.006
Hexa	PCB-137	3.13e+05	1.30	y	44:22	1.32	6.546		*	2.5	*	1.009	1.004-1.014
Hexa	PCB-130	3.89e+05	1.32	y	44:28	1.07	10.07		*	2.5	*	1.012	1.007-1.017
Hexa	PCB-138/163/164	7.12e+06	1.24	y	44:50	1.43	128.7		*	2.5	*	1.001	0.996-1.006
Hexa	PCB-158/160	6.49e+05	1.22	y	45:02	1.57	10.66		*	2.5	*	1.005	1.001-1.011
Hexa	PCB-129	2.23e+05	0.96	n	45:20	1.05	5.476		*	2.5	*	1.012	1.007-1.017
Hexa	PCB-166	*	*	n	NotF¶	1.31	*		2100	2.5	0.954	*	0.988-0.998
Hexa	PCB-159	*	*	n	NotF¶	1.42	*		2100	2.5	0.875	*	0.995-1.005
Hexa	PCB-128/162	9.63e+05	1.37	y	46:22	1.15	17.71		*	2.5	*	1.006	1.002-1.012
Hexa	PCB-167	2.66e+05	1.08	y	46:46	1.32	4.261		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-156	6.90e+05	1.16	y	48:04	1.38	10.59		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-157	1.68e+05	1.31	y	48:20	1.38	2.577		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-169	*	*	n	NotF¶	1.27	*		2100	2.5	1.02	*	0.995-1.005
Hepta	PCB-188	*	*	n	NotF¶	1.78	*		2060	2.5	0.770	*	0.996-1.006
Hepta	PCB-184	*	*	n	NotF¶	1.63	*		2060	2.5	0.839	*	1.006-1.016
Hepta	PCB-179	4.85e+05	1.10	y	44:06	1.63	11.08		*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	1.16e+05	1.20	y	44:33	1.77	2.443		*	2.5	*	1.039	1.035-1.045
Hepta	PCB-186	*	*	n	NotF¶	1.77	*		2060	2.5	0.772	*	1.049-1.059
Hepta	PCB-178	4.10e+05	1.15	y	45:39	1.28	11.93		*	2.5	*	1.065	1.061-1.071
Hepta	PCB-175	3.50e+04	1.07	y	46:00	1.30	1.002		*	2.5	*	1.073	1.069-1.079
Hepta	PCB-182/187	1.21e+06	1.09	y	46:09	1.41	32.06		*	2.5	*	1.077	1.073-1.083
Hepta	PCB-183	2.75e+05	1.11	y	46:29	1.51	6.756		*	2.5	*	1.085	1.080-1.090
Hepta	PCB-185	5.90e+04	1.10	y	47:08	1.78	1.678		*	2.5	*	0.955	0.951-0.961
Hepta	PCB-174	5.26e+05	1.10	y	47:30	1.70	15.61		*	2.5	*	0.963	0.958-0.968
Hepta	PCB-181	*	*	n	NotF¶	1.80	*		2060	2.5	1.04	*	0.960-0.970
Hepta	PCB-177	4.50e+05	1.00	y	47:47	1.59	14.36		*	2.5	*	0.969	0.964-0.974
Hepta	PCB-171	1.96e+05	1.08	y	48:04	1.84	5.380		*	2.5	*	0.974	0.969-0.979
Hepta	PCB-173	*	*	n	NotF¶	1.50	*		2060	2.5	1.25	*	0.978-0.988
Hepta	PCB-172	1.36e+05	1.04	y	48:57	1.77	3.898		*	2.5	*	0.992	0.987-0.997
Hepta	PCB-192	*	*	n	NotF¶	2.29	*		2060	2.5	0.814	*	0.991-1.001
Hepta	PCB-180	1.13e+06	1.12	y	49:21	1.82	31.55		*	2.5	*	1.000	0.995-1.005

Analyst: MI

Date: 8/4/17

Client ID: OWS-WAFO-TI70531111136 Filename: 170801E1 S:11 Acq: 2-AUG-17 00:27:05 ConCal: ST170801E1-1

Lab ID: 1700918-010 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.989 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hepta	PCB-193	9.79e+04	0.94	y 49:33	2.38	2.082		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-191	*	*	n NotFnd	2.44	*		2060	2.5	0.764	*	1.005-1.015
Hepta	PCB-170	5.00e+05	1.10	y 50:56	1.96	15.36		*	2.5	*	1.000	0.995-1.005
Hepta	PCB-190	1.81e+05	0.91	y 51:08	2.72	4.009		*	2.5	*	1.004	0.999-1.009
Hepta	PCB-189	3.66e+04	1.15	y 52:32	1.97	0.7909		*	2.5	*	1.000	0.995-1.005
Octa	PCB-202	1.47e+05	0.77	y 48:17	1.29	5.312		*	2.5	*	1.001	0.995-1.005
Octa	PCB-201	4.90e+04	0.85	y 48:46	1.40	1.635		*	2.5	*	1.011	1.005-1.015
Octa	PCB-204	*	*	n NotFnd	1.32	*		1840	2.5	1.52	*	1.009-1.019
Octa	PCB-197	*	*	n NotFnd	1.48	*		1840	2.5	1.36	*	1.015-1.025
Octa	PCB-200	3.28e+04	0.95	y 50:06	1.38	1.113		*	2.5	*	1.038	1.034-1.044
Octa	PCB-198	*	*	n NotFnd	1.02	*		1840	2.5	1.98	*	1.063-1.073
Octa	PCB-199	3.37e+05	0.99	y 51:41	0.94	16.83		*	2.5	*	1.071	1.065-1.075
Octa	PCB-196/203	3.00e+05	0.90	y 51:59	1.07	13.16		*	2.5	*	1.077	1.071-1.081
Octa	PCB-195	1.41e+05	0.80	y 53:12	1.01	4.482		*	2.5	*	0.984	0.979-0.989
Octa	PCB-194	4.20e+05	0.98	y 54:06	1.11	12.16		*	2.5	*	1.000	0.995-1.005
Octa	PCB-205	2.46e+04	0.85	y 54:21	1.43	0.5515		*	2.5	*	1.005	1.000-1.010
Nona	PCB-208	2.58e+05	1.24	y 53:21	1.16	5.552		*	2.5	*	1.000	0.995-1.005
Nona	PCB-207	7.05e+04	1.54	n 53:40	1.18	1.487	R	*	2.5	*	1.006	1.001-1.011
Nona	PCB-206	4.46e+05	1.19	y 55:39	0.98	14.70		*	2.5	*	1.000	0.995-1.005
Deca	PCB-209	2.26e+05	1.10	y 56:58	1.56	5.232		*	2.5	*	1.000	0.995-1.005

Analyst: MJ

Date: 8/4/17

Client ID: OWS-WAFO-TI70531111136 Filename: 170801E1 S:11 Acq: 2-AUG-17 00:27:05 ConCal: ST170801E1-1
Lab ID: 1700918-010 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 0.989 EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	2.96e+07	3.09 y	16:03	1.33	531.482	
Total Di-PCB	2.21e+08	1.59 y	20:03	1.05	5334.96	
Total Tri-PCB	1.33e+08	1.06 y	24:13	1.54	2440.20	
Total Tri-PCB	1.31e+08	1.05 y	27:57	0.94	2301.21	Sum:4741.40
Total Tetra-PCB	2.49e+08	0.82 y	27:59	1.25	4189.66	
Total Penta-PCB	4.93e+07	1.58 y	33:57	1.47	1387.85	
Total Penta-PCB	4.84e+06	1.49 y	42:14	1.13	86.8673	Sum:1474.71
Total Hexa-PCB	3.66e+06	1.41 y	39:34	1.05	188.679	
Total Hexa-PCB	1.96e+07	1.08 y	42:10	1.23	373.271	Sum:561.950
Total Hepta-PCB	5.85e+06	1.10 y	44:06	1.72	159.999	
Total Octa-PCB	8.65e+05	0.77 y	48:17	1.22	38.0446	
Total Octa-PCB	5.85e+05	0.80 y	53:12	1.18	17.1968	Sum:55.2414
Total Nona-PCB	7.04e+05	1.24 y	53:21	1.12	20.2526	
Total Deca-PCB	2.26e+05	1.10 y	56:58	1.56	5.23211	

Total PCB Conc:17040.7653450

Integrations by Analyst: MJ

Date: 8/4/17

Client ID: OWS-WAFO-TI70531111136 Filename: 170801E1 S:11 Acq: 2-AUG-17 00:27:05 ConCal: ST170801E1-1
Lab ID: 1700918-010 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:0.9891 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	8.21e+07	3.21 y	0.70	16:02	0.619	0.617	0.623	1380	68.2
13C-PCB-3	8.78e+07	3.22 y	0.79	18:41	0.720	0.717	0.725	1320	65.4
13C-PCB-4	5.85e+07	1.60 y	0.54	20:01	0.772	0.769	0.777	1280	63.4
13C-PCB-9	1.02e+08	1.58 y	0.89	21:50	0.842	0.838	0.846	1350	66.8
13C-PCB-11	1.09e+08	1.55 y	0.93	25:13	0.973	0.968	0.978	1390	68.6
13C-PCB-19	5.90e+07	1.07 y	0.41	24:12	0.933	0.928	0.938	1710	84.8
13C-PCB-28	1.19e+08	1.05 y	1.04	29:05	1.004	0.999	1.009	1490	73.8
13C-PCB-32	9.41e+07	1.09 y	0.63	27:08	1.046	1.041	1.051	1770	87.5
13C-PCB-37	1.23e+08	1.06 y	1.00	32:58	1.137	1.132	1.144	1610	79.7
13C-PCB-47	9.32e+07	0.80 y	0.80	32:01	0.871	0.867	0.875	1780	88.2
13C-PCB-52	8.59e+07	0.80 y	0.74	31:30	0.857	0.853	0.861	1770	87.4
13C-PCB-54	9.70e+07	0.79 y	0.94	27:57	0.760	0.757	0.765	1580	78.3
13C-PCB-70	1.16e+08	0.81 y	0.99	35:32	0.966	0.961	0.971	1780	88.1
13C-PCB-77	1.10e+08	0.81 y	0.97	39:39	1.078	1.073	1.083	1730	85.7
13C-PCB-80	1.17e+08	0.80 y	1.01	35:57	0.978	0.973	0.983	1770	87.5
13C-PCB-81	1.13e+08	0.81 y	1.01	39:03	1.062	1.057	1.067	1700	84.3
13C-PCB-95	4.85e+07	1.64 y	0.80	35:49	0.913	0.908	0.918	1860	92.2
13C-PCB-97	4.03e+07	1.64 y	0.70	38:49	0.989	0.984	0.994	1780	88.1
13C-PCB-101	4.63e+07	1.64 y	0.81	37:31	0.956	0.951	0.961	1780	88.0
13C-PCB-104	6.15e+07	1.64 y	1.01	32:39	0.832	0.828	0.836	1890	93.5
13C-PCB-105	9.25e+07	1.62 y	1.18	43:04	0.929	0.924	0.934	2090	103
13C-PCB-114	9.17e+07	1.61 y	1.18	42:12	0.911	0.905	0.915	2060	102
13C-PCB-118	5.80e+07	1.67 y	0.99	41:33	1.059	1.054	1.064	1810	89.4
13C-PCB-123	5.46e+07	1.63 y	0.94	41:22	1.054	1.049	1.059	1800	89.1
13C-PCB-126	9.35e+07	1.60 y	1.17	45:18	0.977	0.972	0.982	2140	106
13C-PCB-127	9.94e+07	1.63 y	1.26	43:25	0.937	0.931	0.941	2100	104
13C-PCB-138	7.84e+07	1.29 y	1.15	44:48	0.967	0.961	0.971	1810	89.5
13C-PCB-141	7.31e+07	1.31 y	1.11	43:58	0.948	0.943	0.953	1760	87.3
13C-PCB-153	8.67e+07	1.28 y	1.32	43:14	0.933	0.927	0.937	1760	86.8
13C-PCB-155	3.99e+07	1.30 y	0.76	37:03	0.944	0.939	0.949	1620	80.2
13C-PCB-156	9.56e+07	1.28 y	1.40	48:03	1.037	1.032	1.042	1820	89.9
13C-PCB-157	9.56e+07	1.29 y	1.40	48:19	1.042	1.038	1.048	1830	90.4
13C-PCB-159	9.54e+07	1.28 y	1.39	46:05	0.994	0.989	0.999	1830	90.6
13C-PCB-167	9.56e+07	1.30 y	1.41	46:46	1.009	1.004	1.014	1810	89.6
13C-PCB-169	9.47e+07	1.30 y	1.38	50:32	1.090	1.085	1.095	1840	90.8
13C-PCB-170	3.36e+07	0.46 y	0.83	50:56	1.103	1.093	1.103	1830	90.7
13C-PCB-180	4.00e+07	0.47 y	0.96	49:20	1.068	1.059	1.069	1890	93.3
13C-PCB-188	5.44e+07	0.46 y	1.36	42:51	0.928	0.919	0.929	1820	90.1
13C-PCB-189	4.76e+07	0.45 y	1.16	52:32	1.138	1.125	1.137	1870	92.3
13C-PCB-194	6.29e+07	0.90 y	0.74	54:05	0.995	0.990	1.000	1840	90.8
13C-PCB-202	4.32e+07	0.91 y	0.95	48:15	1.045	1.036	1.046	2080	103
13C-PCB-206	6.24e+07	0.80 y	0.91	55:38	1.024	1.019	1.029	1480	73.0
13C-PCB-208	8.13e+07	0.76 y	1.19	53:21	0.982	0.977	0.987	1470	72.6
13C-PCB-209	5.60e+07	1.19 y	0.80	56:57	1.048	1.044	1.054	1510	74.6

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.27e+08	0.79 y	1.02	37:50	1.029	1.024	1.033	1890	93.4
13C-PCB-178	4.05e+07	0.46 y	0.90	45:38	0.985	0.980	0.989	2040	101

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.27e+08	0.79 y	1.01	37:50	0.969	0.963	0.973	2240	111
13C-PCB-178	4.05e+07	0.46 y	0.94	45:38	0.925	0.920	0.930	2190	108

RS

Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	1.71e+08	1.56 y	1.00	25:56	2020
13C-PCB-31	1.55e+08	1.04 y	1.00	28:59	2020
13C-PCB-60	1.32e+08	0.81 y	1.00	36:46	2020
13C-PCB-111	6.54e+07	1.64 y	1.00	39:15	2020
13C-PCB-128	7.58e+07	1.27 y	1.00	46:21	2020
13C-PCB-182	4.45e+07	0.48 y	1.00	46:11	2020
13C-PCB-205	9.42e+07	0.92 y	1.00	54:21	2020

Analyst: MI

Date: 8/4/17

Sample ID: Method Blank **EPA Method 1668C**

Matrix:	Aqueous	QC Batch:	B7G0116	Lab Sample:	B7G0116-BLK1
Sample Size:	1.00 L	Date Extracted:	25-Jul-2017 8:40	Date Analyzed:	31-Jul-17 16:23 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-1	ND	5.00	0.908	U	PCB-44	ND	5.00	1.40	U
PCB-2	ND	5.00	0.860	U	PCB-45	ND	5.00	1.26	U
PCB-3	ND	5.00	0.846	U	PCB-46	ND	5.00	1.34	U
PCB-4/10	ND	10.0	4.96	U	PCB-47	ND	5.00	2.94	UM
PCB-5/8	ND	10.0	3.73	U	PCB-48/75	ND	10.0	0.972	U
PCB-6	ND	5.00	3.91	U	PCB-50	ND	5.00	1.22	U
PCB-7/9	ND	10.0	3.85	U	PCB-51	ND	5.00	1.08	U
PCB-11	ND	10.4	10.4	U	PCB-52/69	ND	10.0	0.978	U
PCB-12/13	ND	10.0	3.68	U	PCB-53	ND	5.00	1.14	U
PCB-14	ND	5.00	3.25	U	PCB-54	ND	5.00	0.979	U
PCB-15	ND	5.00	3.25	U	PCB-55	ND	5.00	0.729	U
PCB-16/32	ND	10.0	1.19	U	PCB-56/60	ND	10.0	0.793	U
PCB-17	ND	5.00	1.33	U	PCB-57	ND	5.00	0.819	U
PCB-18	ND	5.00	1.45	U	PCB-58	ND	5.00	0.786	U
PCB-19	ND	5.00	1.71	U	PCB-61/70	ND	10.0	0.815	U
PCB-20/21/33	ND	15.0	1.50	U	PCB-62	ND	5.00	0.973	U
PCB-22	ND	5.00	1.43	U	PCB-63	ND	5.00	0.771	U
PCB-23	ND	5.00	1.42	U	PCB-65	ND	5.00	1.03	U
PCB-24/27	ND	10.0	0.996	U	PCB-66/76	ND	10.0	0.780	U
PCB-25	ND	5.00	1.53	U	PCB-67	ND	5.00	0.831	U
PCB-26	ND	5.00	1.38	U	PCB-68	ND	5.00	0.827	U
PCB-28	ND	5.00	1.23	U	PCB-73	ND	5.00	0.900	U
PCB-29	ND	5.00	1.37	U	PCB-74	ND	5.00	0.767	U
PCB-30	ND	5.00	1.04	U	PCB-77	ND	5.00	0.705	U
PCB-31	ND	5.00	1.15	U	PCB-78	ND	5.00	0.708	U
PCB-34	ND	5.00	1.36	U	PCB-79	ND	5.00	0.742	U
PCB-35	ND	5.00	1.52	U	PCB-80	ND	5.00	0.669	U
PCB-36	ND	5.00	1.45	U	PCB-81	ND	5.00	0.662	U
PCB-37	ND	5.00	1.31	U	PCB-82	ND	5.00	1.34	U
PCB-38	ND	5.00	1.51	U	PCB-83	ND	5.00	0.833	U
PCB-39	ND	5.00	1.35	U	PCB-84/92	ND	10.0	1.20	U
PCB-40	ND	5.00	1.48	U	PCB-85/116	ND	10.0	1.03	U
PCB-41/64/71/72	ND	20.0	0.977	U	PCB-86	ND	5.00	1.42	U
PCB-42/59	ND	10.0	1.02	U	PCB-87/117/125	ND	15.0	0.894	U
PCB-43/49	ND	10.0	1.13	U	PCB-88/91	ND	5.00	1.22	U

RL - Reporting limit DL - Sample specific estimated detection limit LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Sample ID: Method Blank

EPA Method 1668C

Matrix:	Aqueous	QC Batch:	B7G0116	Lab Sample:	B7G0116-BLK1
Sample Size:	1.00 L	Date Extracted:	25-Jul-2017 8:40	Date Analyzed:	31-Jul-17 16:23 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-89	ND	5.00	1.26	U	PCB-137	ND	5.00	0.897	U
PCB-90/101	ND	10.0	1.06	U	PCB-138/163/164	ND	15.0	0.737	U
PCB-93	ND	5.00	1.37	U	PCB-139/149	ND	10.0	0.948	U
PCB-94	ND	5.00	1.29	U	PCB-140	ND	5.00	1.42	U
PCB-95/98/102	ND	15.0	1.15	U	PCB-141	ND	5.00	0.914	U
PCB-96	ND	5.00	1.03	U	PCB-142	ND	5.00	1.12	U
PCB-97	ND	5.00	1.09	U	PCB-144	ND	5.00	1.28	U
PCB-99	ND	5.00	1.05	U	PCB-145	ND	5.00	1.06	U
PCB-100	ND	5.00	1.13	U	PCB-146/165	ND	10.0	0.870	U
PCB-103	ND	5.00	1.12	U	PCB-147	ND	5.00	1.46	U
PCB-104	ND	5.00	0.909	U	PCB-148	ND	5.00	1.40	U
PCB-105	ND	5.00	1.13	U	PCB-150	ND	5.00	1.03	U
PCB-106/118	ND	10.0	0.814	U	PCB-151	ND	5.00	1.38	U
PCB-107/109	ND	10.0	0.767	U	PCB-152	ND	5.00	1.02	U
PCB-108/112	ND	10.0	0.995	U	PCB-153	ND	5.00	0.846	U
PCB-110	ND	5.00	0.862	U	PCB-154	ND	5.00	1.27	U
PCB-111/115	ND	10.0	0.762	U	PCB-155	ND	5.00	0.966	U
PCB-113	ND	5.00	0.938	U	PCB-156	ND	5.00	0.669	U
PCB-114	ND	5.00	1.09	U	PCB-157	ND	5.00	0.686	U
PCB-119	ND	5.00	0.757	U	PCB-158/160	ND	10.0	0.733	U
PCB-120	ND	5.00	0.701	U	PCB-159	ND	5.00	0.655	U
PCB-121	ND	5.00	0.852	U	PCB-166	ND	5.00	0.714	U
PCB-122	ND	5.00	1.20	U	PCB-167	ND	5.00	0.714	U
PCB-123	ND	5.00	0.769	U	PCB-168	ND	5.00	0.702	U
PCB-124	ND	5.00	0.764	U	PCB-169	ND	5.00	0.742	U
PCB-126	ND	5.00	1.19	U	PCB-170	ND	5.00	0.641	U
PCB-127	ND	5.00	1.19	U	PCB-171	ND	5.00	0.646	U
PCB-128/162	ND	10.0	0.809	U	PCB-172	ND	5.00	0.674	U
PCB-129	ND	5.00	1.10	U	PCB-173	ND	5.00	0.796	U
PCB-130	ND	5.00	1.11	U	PCB-174	ND	5.00	0.700	U
PCB-131/133	ND	10.0	1.08	U	PCB-175	ND	5.00	0.702	U
PCB-132/161	ND	10.0	0.872	U	PCB-176	ND	5.00	0.517	U
PCB-134/143	ND	10.0	1.08	U	PCB-177	ND	5.00	0.751	U
PCB-135	ND	5.00	1.43	U	PCB-178	ND	5.00	0.715	U
PCB-136	ND	5.00	0.989	U	PCB-179	ND	5.00	0.561	U

RL - Reporting limit

DL - Sample specifc estimated detection limit

LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: Method Blank

EPA Method 1668C

Matrix:	Aqueous	QC Batch:	B7G0116	Lab Sample:	B7G0116-BLK1
Sample Size:	1.00 L	Date Extracted:	25-Jul-2017 8:40	Date Analyzed:	31-Jul-17 16:23 Column: ZB-1

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
PCB-180	ND	5.00	0.655	U
PCB-181	ND	5.00	0.664	U
PCB-182/187	ND	10.0	0.649	U
PCB-183	ND	5.00	0.603	U
PCB-184	ND	5.00	0.559	U
PCB-185	ND	5.00	0.670	U
PCB-186	ND	5.00	0.515	U
PCB-188	ND	5.00	0.514	U
PCB-189	ND	5.00	0.425	U
PCB-190	ND	5.00	0.461	U
PCB-191	ND	5.00	0.488	U
PCB-192	ND	5.00	0.520	U
PCB-193	ND	5.00	0.501	U
PCB-194	ND	5.00	0.457	UM
PCB-195	ND	5.00	0.856	U
PCB-196/203	ND	10.0	1.16	U
PCB-197	ND	5.00	0.834	U
PCB-198	ND	5.00	1.22	U
PCB-199	ND	5.00	1.32	U
PCB-200	ND	5.00	0.896	U
PCB-201	ND	5.00	0.881	U
PCB-202	ND	5.00	0.955	U
PCB-204	ND	5.00	0.936	U
PCB-205	ND	5.00	0.603	U
PCB-206	ND	5.00	0.588	U
PCB-207	ND	5.00	0.346	U
PCB-208	ND	5.00	0.353	U
PCB-209	ND	5.00	0.574	U
Total monoCB	ND		0.908	U
Total diCB	ND		10.4	U
Total triCB	ND		1.71	U
Total tetraCB	ND		2.94	UM
Total pentaCB	ND		1.42	U
Total hexaCB	ND		1.46	U
Total heptaCB	ND		0.796	U

Analyte	Conc. (pg/L)	RL	DL	Qualifiers
Total octaCB	ND		0.457	UM
Total nonaCB	ND		0.588	U
DecaCB	ND		0.574	U
Total PCB	ND			

RL - Reporting limit

DL - Sample specifc estimated detection limit

LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: Method Blank

EPA Method 1668C

Matrix:	Aqueous	QC Batch:	B7G0116	Lab Sample:	B7G0116-BLK1
Sample Size:	1.00 L	Date Extracted:	25-Jul-2017 8:40	Date Analyzed:	31-Jul-17 16:23 Column: ZB-1

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	58.0	5-145	
	13C-PCB-3	61.7	5-145	
	13C-PCB-4	66.6	5-145	
	13C-PCB-11	71.3	5-145	
	13C-PCB-9	69.3	5-145	
	13C-PCB-19	81.6	5-145	
	13C-PCB-28	63.2	5-145	
	13C-PCB-32	85.2	5-145	
	13C-PCB-37	71.8	5-145	
	13C-PCB-47	71.0	5-145	
	13C-PCB-52	74.0	5-145	
	13C-PCB-54	69.6	5-145	
	13C-PCB-70	79.3	5-145	
	13C-PCB-77	87.0	10-145	
	13C-PCB-80	80.0	10-145	
	13C-PCB-81	85.0	10-145	
	13C-PCB-95	74.5	10-145	
	13C-PCB-97	81.8	10-145	
	13C-PCB-101	78.5	10-145	
	13C-PCB-104	69.9	10-145	
	13C-PCB-105	72.4	10-145	
	13C-PCB-114	75.8	10-145	
	13C-PCB-118	82.3	10-145	
	13C-PCB-123	85.8	10-145	
	13C-PCB-126	77.3	10-145	
	13C-PCB-127	74.3	10-145	
	13C-PCB-138	83.5	10-145	
	13C-PCB-141	81.0	10-145	
	13C-PCB-153	80.5	10-145	
	13C-PCB-155	92.0	10-145	
	13C-PCB-156	83.0	10-145	

	Labeled Standard	%R	LCL-UCL	Qualifiers
	13C-PCB-157	86.4	10-145	
	13C-PCB-159	84.3	10-145	
	13C-PCB-167	83.1	10-145	
	13C-PCB-169	84.4	10-145	
	13C-PCB-170	86.3	10-145	
	13C-PCB-180	85.1	10-145	
	13C-PCB-188	79.3	10-145	
	13C-PCB-189	84.6	10-145	
	13C-PCB-194	82.6	10-145	
	13C-PCB-202	103	10-145	
	13C-PCB-206	95.0	10-145	
	13C-PCB-208	97.6	10-145	
	13C-PCB-209	106	10-145	
CRS	13C-PCB-79	90.5	10-145	
	13C-PCB-178	91.8	10-145	

RL - Reporting limit

DL - Sample specifc estimated detection limit

LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

Sample ID: OPR **EPA Method 1668C**

Matrix: Aqueous Sample Size: 1.00 L	QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40	Lab Sample: B7G0116-BS1 Date Analyzed: 31-Jul-17 14:13 Column: ZB-1

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL
PCB-1	881	1000	88.1	60 - 135	IS	13C-PCB-1	59.2	15 - 145
PCB-2	946	1000	94.6	60 - 135	IS	13C-PCB-3	63.2	15 - 145
PCB-3	891	1000	89.1	60 - 135	IS	13C-PCB-4	67.8	15 - 145
PCB-4/10	2110	2000	105	60 - 135	IS	13C-PCB-9	69.6	15 - 145
PCB-5/8	2290	2000	115	60 - 135	IS	13C-PCB-11	67.8	15 - 145
PCB-6	1140	1000	114	60 - 135	IS	13C-PCB-19	81.1	15 - 145
PCB-7/9	2190	2000	109	60 - 135	IS	13C-PCB-28	79.5	15 - 145
PCB-11	1080	1000	108	60 - 135	IS	13C-PCB-32	83.4	15 - 145
PCB-12/13	2140	2000	107	60 - 135	IS	13C-PCB-37	91.3	15 - 145
PCB-14	1140	1000	114	60 - 135	IS	13C-PCB-47	76.2	15 - 145
PCB-15	1090	1000	109	60 - 135	IS	13C-PCB-52	73.5	15 - 145
PCB-16/32	1720	2000	86.1	60 - 135	IS	13C-PCB-54	68.0	15 - 145
PCB-17	831	1000	83.1	60 - 135	IS	13C-PCB-70	81.7	15 - 145
PCB-18	803	1000	80.3	60 - 135	IS	13C-PCB-77	88.5	40 - 145
PCB-19	844	1000	84.4	60 - 135	IS	13C-PCB-80	82.9	40 - 145
PCB-20/21/33	3030	3000	101	60 - 135	IS	13C-PCB-81	88.1	40 - 145
PCB-22	1040	1000	104	60 - 135	IS	13C-PCB-95	79.8	40 - 145
PCB-23	937	1000	93.7	60 - 135	IS	13C-PCB-97	85.7	40 - 145
PCB-24/27	1750	2000	87.7	60 - 135	IS	13C-PCB-101	81.9	40 - 145
PCB-25	852	1000	85.2	60 - 135	IS	13C-PCB-104	74.0	40 - 145
PCB-26	954	1000	95.4	60 - 135	IS	13C-PCB-105	80.3	40 - 145
PCB-28	951	1000	95.1	60 - 135	IS	13C-PCB-114	82.0	40 - 145
PCB-29	920	1000	92.0	60 - 135	IS	13C-PCB-118	88.6	40 - 145
PCB-30	808	1000	80.8	60 - 135	IS	13C-PCB-123	89.6	40 - 145
PCB-31	818	1000	81.8	60 - 135	IS	13C-PCB-126	84.4	40 - 145
PCB-34	1010	1000	101	60 - 135	IS	13C-PCB-127	83.4	40 - 145
PCB-35	956	1000	95.6	60 - 135	IS	13C-PCB-138	87.2	40 - 145
PCB-36	839	1000	83.9	60 - 135	IS	13C-PCB-141	85.6	40 - 145
PCB-37	1010	1000	101	60 - 135	IS	13C-PCB-153	84.9	40 - 145
PCB-38	917	1000	91.7	60 - 135	IS	13C-PCB-155	97.8	40 - 145
PCB-39	861	1000	86.1	60 - 135	IS	13C-PCB-156	85.6	40 - 145
PCB-40	870	1000	87.0	60 - 135	IS	13C-PCB-157	86.6	40 - 145
PCB-41/64/71/72	3490	4000	87.2	60 - 135	IS	13C-PCB-159	85.6	40 - 145
PCB-42/59	1680	2000	83.8	60 - 135	IS	13C-PCB-167	85.5	40 - 145
PCB-43/49	1700	2000	84.8	60 - 135	IS	13C-PCB-169	87.3	40 - 145
PCB-44	878	1000	87.8	60 - 135	IS	13C-PCB-170	87.6	40 - 145
PCB-45	802	1000	80.2	60 - 135	IS	13C-PCB-180	87.0	40 - 145
PCB-46	789	1000	78.9	60 - 135	IS	13C-PCB-188	84.0	40 - 145
PCB-47	864	1000	86.4	60 - 135	IS	13C-PCB-189	85.8	40 - 145
PCB-48/75	1590	2000	79.3	60 - 135	IS	13C-PCB-194	84.2	40 - 145
PCB-50	822	1000	82.2	60 - 135	IS	13C-PCB-202	110	40 - 145

Sample ID: OPR **EPA Method 1668C**

Matrix: Aqueous	QC Batch: B7G0116	Lab Sample: B7G0116-BS1
Sample Size: 1.00 L	Date Extracted: 25-Jul-2017 8:40	Date Analyzed: 31-Jul-17 14:13 Column: ZB-1

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits
PCB-51	810	1000	81.0	60 - 135
PCB-52/69	1650	2000	82.3	60 - 135
PCB-53	812	1000	81.2	60 - 135
PCB-54	823	1000	82.3	60 - 135
PCB-55	845	1000	84.5	60 - 135
PCB-56/60	1620	2000	80.8	60 - 135
PCB-57	821	1000	82.1	60 - 135
PCB-58	864	1000	86.4	60 - 135
PCB-61/70	1640	2000	82.1	60 - 135
PCB-62	819	1000	81.9	60 - 135
PCB-63	800	1000	80.0	60 - 135
PCB-65	858	1000	85.8	60 - 135
PCB-66/76	1670	2000	83.4	60 - 135
PCB-67	796	1000	79.6	60 - 135
PCB-68	898	1000	89.8	60 - 135
PCB-73	825	1000	82.5	60 - 135
PCB-74	806	1000	80.6	60 - 135
PCB-77	857	1000	85.7	60 - 135
PCB-78	815	1000	81.5	60 - 135
PCB-79	834	1000	83.4	60 - 135
PCB-80	816	1000	81.6	60 - 135
PCB-81	827	1000	82.7	60 - 135
PCB-82	837	1000	83.7	60 - 135
PCB-83	836	1000	83.6	60 - 135
PCB-84/92	1650	2000	82.7	60 - 135
PCB-85/116	1750	2000	87.5	60 - 135
PCB-86	855	1000	85.5	60 - 135
PCB-87/117/125	2430	3000	80.9	60 - 135
PCB-88/91	1660	2000	82.8	60 - 135
PCB-89	841	1000	84.1	60 - 135
PCB-90/101	1640	2000	81.9	60 - 135
PCB-93	834	1000	83.4	60 - 135
PCB-94	812	1000	81.2	60 - 135
PCB-95/98/102	2430	3000	81.1	60 - 135
PCB-96	851	1000	85.1	60 - 135
PCB-97	817	1000	81.7	60 - 135
PCB-99	778	1000	77.8	60 - 135
PCB-100	862	1000	86.2	60 - 135
PCB-103	867	1000	86.7	60 - 135
PCB-104	809	1000	80.9	60 - 135
PCB-105	1080	1000	108	60 - 135

	Labeled Standard	%R	LCL-UCL
IS	13C-PCB-206	91.2	40 - 145
IS	13C-PCB-208	98.7	40 - 145
IS	13C-PCB-209	95.5	40 - 145
CRS	13C-PCB-79	94.7	40 - 145
CRS	13C-PCB-178	98.0	40 - 145

Sample ID: OPR **EPA Method 1668C**

Matrix: Aqueous Sample Size: 1.00 L	QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40	Lab Sample: B7G0116-BS1 Date Analyzed: 31-Jul-17 14:13 Column: ZB-1

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-106/118	1640	2000	82.1	60 - 135			
PCB-107/109	1670	2000	83.3	60 - 135			
PCB-108/112	1640	2000	81.9	60 - 135			
PCB-110	854	1000	85.4	60 - 135			
PCB-111/115	1570	2000	78.5	60 - 135			
PCB-113	871	1000	87.1	60 - 135			
PCB-114	1130	1000	113	60 - 135			
PCB-119	812	1000	81.2	60 - 135			
PCB-120	801	1000	80.1	60 - 135			
PCB-121	831	1000	83.1	60 - 135			
PCB-122	1090	1000	109	60 - 135			
PCB-123	789	1000	78.9	60 - 135			
PCB-124	804	1000	80.4	60 - 135			
PCB-126	1100	1000	110	60 - 135			
PCB-127	1090	1000	109	60 - 135			
PCB-128/162	1860	2000	92.8	60 - 135			
PCB-129	890	1000	89.0	60 - 135			
PCB-130	972	1000	97.2	60 - 135			
PCB-131/133	1810	2000	90.6	60 - 135			
PCB-132/161	1810	2000	90.5	60 - 135			
PCB-134/143	1810	2000	90.6	60 - 135			
PCB-135	957	1000	95.7	60 - 135			
PCB-136	943	1000	94.3	60 - 135			
PCB-137	910	1000	91.0	60 - 135			
PCB-138/163/164	2710	3000	90.2	60 - 135			
PCB-139/149	1910	2000	95.5	60 - 135			
PCB-140	970	1000	97.0	60 - 135			
PCB-141	883	1000	88.3	60 - 135			
PCB-142	942	1000	94.2	60 - 135			
PCB-144	997	1000	99.7	60 - 135			
PCB-145	909	1000	90.9	60 - 135			
PCB-146/165	1780	2000	88.9	60 - 135			
PCB-147	935	1000	93.5	60 - 135			
PCB-148	885	1000	88.5	60 - 135			
PCB-150	926	1000	92.6	60 - 135			
PCB-151	993	1000	99.3	60 - 135			
PCB-152	913	1000	91.3	60 - 135			
PCB-153	859	1000	85.9	60 - 135			
PCB-154	955	1000	95.5	60 - 135			
PCB-155	885	1000	88.5	60 - 135			
PCB-156	910	1000	91.0	60 - 135			

Sample ID: OPR **EPA Method 1668C**

Matrix: Aqueous Sample Size: 1.00 L	QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40	Lab Sample: B7G0116-BS1 Date Analyzed: 31-Jul-17 14:13 Column: ZB-1

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-157	904	1000	90.4	60 - 135			
PCB-158/160	1830	2000	91.3	60 - 135			
PCB-159	889	1000	88.9	60 - 135			
PCB-166	928	1000	92.8	60 - 135			
PCB-167	926	1000	92.6	60 - 135			
PCB-168	897	1000	89.7	60 - 135			
PCB-169	942	1000	94.2	60 - 135			
PCB-170	874	1000	87.4	60 - 135			
PCB-171	856	1000	85.6	60 - 135			
PCB-172	861	1000	86.1	60 - 135			
PCB-173	883	1000	88.3	60 - 135			
PCB-174	799	1000	79.9	60 - 135			
PCB-175	903	1000	90.3	60 - 135			
PCB-176	882	1000	88.2	60 - 135			
PCB-177	902	1000	90.2	60 - 135			
PCB-178	904	1000	90.4	60 - 135			
PCB-179	906	1000	90.6	60 - 135			
PCB-180	868	1000	86.8	60 - 135			
PCB-181	916	1000	91.6	60 - 135			
PCB-182/187	1740	2000	87.0	60 - 135			
PCB-183	857	1000	85.7	60 - 135			
PCB-184	840	1000	84.0	60 - 135			
PCB-185	885	1000	88.5	60 - 135			
PCB-186	882	1000	88.2	60 - 135			
PCB-188	844	1000	84.4	60 - 135			
PCB-189	887	1000	88.7	60 - 135			
PCB-190	890	1000	89.0	60 - 135			
PCB-191	895	1000	89.5	60 - 135			
PCB-192	870	1000	87.0	60 - 135			
PCB-193	887	1000	88.7	60 - 135			
PCB-194	989	1000	98.9	60 - 135			
PCB-195	1100	1000	110	60 - 135			
PCB-196/203	1730	2000	86.6	60 - 135			
PCB-197	843	1000	84.3	60 - 135			
PCB-198	847	1000	84.7	60 - 135			
PCB-199	898	1000	89.8	60 - 135			
PCB-200	834	1000	83.4	60 - 135			
PCB-201	854	1000	85.4	60 - 135			
PCB-202	824	1000	82.4	60 - 135			
PCB-204	824	1000	82.4	60 - 135			
PCB-205	1050	1000	105	60 - 135			

Sample ID: OPR **EPA Method 1668C**

Matrix: Aqueous Sample Size: 1.00 L	QC Batch: B7G0116 Date Extracted: 25-Jul-2017 8:40	Lab Sample: B7G0116-BS1 Date Analyzed: 31-Jul-17 14:13 Column: ZB-1

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-206	913	1000	91.3	60 - 135			
PCB-207	865	1000	86.5	60 - 135			
PCB-208	877	1000	87.7	60 - 135			
PCB-209	869	1000	86.9	60 - 135			

LCL-UCL - Lower control limit - upper control limit

Vista Analytical Laboratory - Injection Log Run file: 170313E2 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
170313E2	1	ST170313E2-1	MAS	13-MAR-17	04:06:40	NA	NA
170313E2	2	ST170313E2-2	MAS	13-MAR-17	05:11:29	NA	NA
170313E2	3	ST170313E2-3	MAS	13-MAR-17	06:16:22	NA	NA
170313E2	4	ST170313E2-4	MAS	13-MAR-17	07:21:16	NA	NA
170313E2	5	ST170313E2-5	MAS	13-MAR-17	08:26:09	NA	NA
170313E2	6	ST170313E2-6	MAS	13-MAR-17	09:31:03	NA	NA
170313E2	7	SOLVENT BLANK	MAS	13-MAR-17	10:35:50	NA	NA
170313E2	8	SS170313E2-1	MAS	13-MAR-17	11:40:39	NA	NA

Initial Calibration RRF Summary (ICAL) Vista Analytical Laboratory

Run: 170313E2 Analyte: Cal: PCBVG8-3-13-17 Inst. ID. VG-8

Data filename: 170313E2

≤20%

Name	Mean RRF	%RSD	Samp# 1 0.25 RRF#1	Samp# 2 1.0 RRF#2	Samp# 3 2.5 RRF#3	Samp# 4 50 RRF#4	Samp# 5 400 RRF#5	Samp# 6 1000 RRF#6
PCB-1	1.36	4.86 %	1.42	1.41	1.43	1.32	1.30	1.29
PCB-2	1.30	3.74 %	1.36	1.35	1.33	1.27	1.25	1.27
PCB-3	1.33	5.27 %	1.42	1.37	1.37	1.28	1.27	1.25
PCB-4/10	1.32	7.65 %	1.43	1.38	1.41	1.28	1.21	1.21
PCB-7/9	1.00	6.77 %	1.07	1.05	1.07	0.97	0.94	0.92
PCB-6	0.99	6.54 %	1.03	1.03	1.06	0.95	0.93	0.91
PCB-5/8	1.03	7.33 %	1.12	1.08	1.11	0.99	0.97	0.94
PCB-14	1.16	7.52 %	1.25	1.25	1.22	1.12	1.08	1.06
PCB-11	1.03	9.49 %	1.18	1.07	1.07	0.98	0.94	0.92
PCB-12/13	1.03	7.95 %	1.14	1.09	1.07	0.98	0.96	0.94
PCB-15	1.17	6.74 %	1.24	1.22	1.25	1.13	1.09	1.07
PCB-19	1.52	3.11 %	1.55	1.57	1.56	1.45	1.49	1.48
PCB-30	2.51	4.78 %	2.59	2.56	2.60	2.28	2.51	2.53
PCB-18	1.11	6.45 %	1.22	1.12	1.15	1.09	1.02	1.05
PCB-17	1.21	6.40 %	1.33	1.23	1.24	1.20	1.12	1.14
PCB-24/27	1.61	3.82 %	1.69	1.64	1.65	1.57	1.54	1.56
PCB-16/32	1.35	5.37 %	1.47	1.38	1.39	1.30	1.29	1.29
PCB-34	0.98	13.13 %	1.10	1.14	0.95	0.88	0.81	0.98
PCB-23	0.93	17.87 %	1.13	1.14	0.93	0.89	0.76	0.76
PCB-29	0.97	12.81 %	1.11	1.13	0.95	0.89	0.81	0.94
PCB-26	0.96	13.36 %	1.11	1.14	0.91	0.91	0.83	0.89
PCB-25	0.87	13.67 %	0.99	1.04	0.87	0.80	0.77	0.76
PCB-31	1.00	14.37 %	1.12	1.20	1.03	0.92	0.86	0.86
PCB-28	0.93	14.41 %	1.15	1.01	0.91	0.92	0.77	0.84
PCB-20/21/33	0.89	13.04 %	1.01	1.04	0.84	0.83	0.74	0.86
PCB-22	0.93	17.45 %	1.15	1.12	0.91	0.82	0.77	0.82
PCB-36	0.94	14.06 %	1.10	1.03	0.99	0.92	0.83	0.75
PCB-39	1.01	14.07 %	1.16	1.12	1.10	0.96	0.90	0.80
PCB-38	0.90	10.69 %	0.95	1.02	0.97	0.89	0.77	0.81
PCB-35	0.89	7.97 %	0.97	0.95	0.95	0.83	0.82	0.83
PCB-37	1.03	9.33 %	1.09	1.14	1.12	0.97	0.94	0.93
PCB-54	1.17	11.34 %	1.34	1.28	1.25	1.07	1.06	1.03
PCB-50	0.94	11.78 %	1.10	0.99	0.98	0.89	0.87	0.78
PCB-53	1.19	10.24 %	1.35	1.30	1.24	1.11	1.04	1.10
PCB-51	1.25	14.65 %	1.53	1.35	1.35	1.12	1.10	1.07
PCB-45	1.08	11.32 %	1.30	1.10	1.09	1.03	0.96	0.98
PCB-46	1.01	13.38 %	1.23	1.06	1.06	0.90	0.90	0.90
PCB-52/69	1.39	9.92 %	1.61	1.46	1.40	1.34	1.24	1.26
PCB-73	1.51	9.17 %	1.62	1.67	1.60	1.36	1.41	1.38
PCB-43/49	1.20	9.26 %	1.37	1.23	1.26	1.14	1.06	1.13
PCB-47	1.19	9.35 %	1.25	1.29	1.31	1.05	1.09	1.12

MS 3/24/17

DB 3/24/17

PCB-48/75	1.39	10.51 %	1.61	1.47	1.43	1.33	1.27	1.20
PCB-65	1.31	7.33 %	1.45	1.34	1.38	1.25	1.21	1.23
PCB-62	1.38	10.38 %	1.47	1.54	1.50	1.20	1.33	1.25
PCB-44	0.96	11.58 %	1.12	1.04	1.00	0.87	0.90	0.83
PCB-42/59	1.32	10.27 %	1.49	1.42	1.42	1.18	1.27	1.18
PCB-41/64/71/72	1.38	14.21 %	1.58	1.54	1.47	1.33	1.31	1.04
PCB-68	1.63	10.63 %	1.83	1.81	1.70	1.47	1.52	1.44
PCB-40	0.91	15.59 %	1.14	1.00	0.94	0.80	0.80	0.78
PCB-57	1.23	7.75 %	1.35	1.28	1.29	1.20	1.09	1.16
PCB-67	1.21	8.88 %	1.31	1.31	1.30	1.16	1.13	1.07
PCB-58	1.28	11.75 %	1.53	1.36	1.27	1.25	1.13	1.13

PCB-63	1.30	10.15 %	1.48	1.40	1.35	1.29	1.19	1.12
PCB-74	1.31	8.61 %	1.40	1.43	1.38	1.29	1.21	1.15
PCB-61/70	1.23	11.14 %	1.46	1.29	1.28	1.18	1.09	1.11
PCB-76/66	1.29	7.70 %	1.37	1.40	1.36	1.23	1.19	1.18
PCB-80	1.49	9.15 %	1.67	1.58	1.56	1.41	1.37	1.33
PCB-55	1.36	8.59 %	1.51	1.45	1.45	1.26	1.27	1.25
PCB-56/60	1.25	11.55 %	1.42	1.38	1.34	1.19	1.10	1.09
PCB-79	1.34	10.59 %	1.50	1.46	1.45	1.21	1.22	1.20
PCB-78	1.29	9.48 %	1.44	1.40	1.35	1.19	1.19	1.17
PCB-81	1.38	7.82 %	1.51	1.47	1.45	1.32	1.28	1.25
PCB-77	1.42	10.40 %	1.61	1.50	1.53	1.33	1.28	1.25
PCB-104	1.47	8.57 %	1.65	1.55	1.52	1.39	1.34	1.35
PCB-96	1.29	7.03 %	1.35	1.42	1.34	1.23	1.20	1.21
PCB-103	1.19	4.75 %	1.22	1.23	1.25	1.15	1.11	1.15
PCB-100	1.18	4.68 %	1.23	1.21	1.25	1.14	1.13	1.12
PCB-94	1.25	9.83 %	1.45	1.34	1.27	1.19	1.14	1.13
PCB-95/98/102	1.40	9.07 %	1.59	1.44	1.50	1.34	1.27	1.29
PCB-93	1.18	8.78 %	1.18	1.37	1.18	1.07	1.18	1.09
PCB-88/91	1.32	9.17 %	1.53	1.37	1.33	1.27	1.19	1.24
PCB-121	1.89	8.61 %	2.07	2.05	1.98	1.68	1.81	1.76
PCB-84/92	1.30	8.20 %	1.42	1.40	1.35	1.22	1.18	1.20
PCB-89	1.23	8.68 %	1.39	1.29	1.27	1.18	1.12	1.12
PCB-90/101	1.47	10.05 %	1.70	1.56	1.51	1.36	1.34	1.34
PCB-113	1.65	6.41 %	1.67	1.74	1.81	1.58	1.53	1.60
PCB-99	1.48	12.87 %	1.80	1.57	1.51	1.37	1.34	1.29
PCB-119	2.25	7.44 %	2.55	2.31	2.26	2.16	2.09	2.14
PCB-108/112	1.71	7.96 %	1.95	1.77	1.74	1.59	1.61	1.62
PCB-83	2.05	7.10 %	2.20	2.23	2.10	1.89	1.95	1.93
PCB-97	1.56	8.17 %	1.69	1.71	1.63	1.46	1.46	1.43
PCB-86	1.20	8.72 %	1.40	1.19	1.17	1.20	1.10	1.13
PCB-87/117/125	1.91	7.41 %	2.11	2.03	1.96	1.77	1.81	1.78
PCB-111/115	2.24	7.96 %	2.45	2.38	2.34	2.03	2.04	2.20
PCB-85/116	1.66	9.80 %	1.95	1.74	1.64	1.60	1.54	1.50
PCB-120	2.43	12.23 %	2.98	2.45	2.51	2.16	2.24	2.26
PCB-110	1.98	8.46 %	2.22	2.12	1.99	1.91	1.85	1.78
PCB-82	0.91	9.01 %	0.98	0.97	0.99	0.85	0.83	0.82
PCB-124	1.59	7.63 %	1.68	1.77	1.62	1.49	1.53	1.46
PCB-107/109	1.58	6.97 %	1.72	1.58	1.71	1.45	1.50	1.54
PCB-123	1.58	9.38 %	1.75	1.73	1.65	1.48	1.45	1.42
PCB-106/118	1.57	8.99 %	1.78	1.65	1.63	1.47	1.44	1.44
PCB-114	1.18	6.54 %	1.22	1.27	1.26	1.16	1.10	1.09
PCB-122	1.07	11.00 %	1.23	1.19	1.10	0.98	0.97	0.97
PCB-105	1.23	10.64 %	1.43	1.30	1.28	1.14	1.11	1.10
PCB-127	1.03	9.30 %	1.19	1.06	1.06	0.98	0.94	0.93
PCB-126	1.12	8.62 %	1.21	1.22	1.19	1.06	1.03	1.02
PCB-155	1.31	6.09 %	1.40	1.37	1.37	1.24	1.23	1.24
PCB-150	1.22	6.84 %	1.36	1.23	1.28	1.15	1.16	1.17
PCB-152	1.24	9.86 %	1.47	1.22	1.29	1.15	1.15	1.17
PCB-145	1.20	10.80 %	1.45	1.18	1.20	1.10	1.13	1.13
PCB-136	1.28	9.02 %	1.47	1.28	1.35	1.18	1.17	1.23

PCB-148	0.91	11.98 %	1.11	0.93	0.88	0.80	0.85	0.86
PCB-154	1.00	6.67 %	1.10	1.01	1.03	0.92	0.93	0.99
PCB-151	0.92	4.40 %	0.90	0.98	0.94	0.86	0.90	0.92
PCB-135	0.88	5.77 %	0.97	0.84	0.87	0.85	0.91	0.86
PCB-144	0.98	8.38 %	1.00	1.08	1.02	0.87	0.90	1.03
PCB-147	0.87	7.27 %	0.99	0.87	0.84	0.81	0.84	0.84
PCB-139/149	0.98	6.29 %	1.05	1.05	0.98	0.90	0.94	0.96
PCB-140	0.89	6.31 %	0.95	0.95	0.91	0.81	0.85	0.86
PCB-134/143	0.95	6.40 %	1.01	1.00	1.00	0.92	0.90	0.87
PCB-131/133	0.94	5.39 %	1.00	0.99	0.98	0.91	0.90	0.88
PCB-142	0.91	9.31 %	1.02	0.97	0.98	0.87	0.83	0.81

PCB-146/165	1.18	8.23 %	1.33	1.22	1.21	1.12	1.10	1.07
PCB-132/161	1.17	8.25 %	1.31	1.23	1.21	1.13	1.09	1.06
PCB-153	1.21	11.03 %	1.40	1.32	1.24	1.12	1.10	1.07
PCB-168	1.46	8.45 %	1.62	1.54	1.52	1.40	1.34	1.31
PCB-141	1.30	10.03 %	1.51	1.36	1.34	1.23	1.19	1.16
PCB-137	1.32	6.79 %	1.42	1.45	1.28	1.23	1.26	1.30
PCB-130	1.07	13.69 %	1.30	1.03	1.18	1.04	0.95	0.91
PCB-138/163/164	1.43	9.62 %	1.62	1.52	1.48	1.37	1.33	1.25
PCB-158/160	1.57	7.29 %	1.69	1.69	1.64	1.51	1.46	1.44
PCB-129	1.05	9.64 %	1.17	1.15	1.10	0.99	0.95	0.94
PCB-166	1.31	7.42 %	1.42	1.40	1.36	1.24	1.21	1.21
PCB-159	1.42	8.91 %	1.57	1.55	1.48	1.35	1.30	1.29
PCB-128/162	1.15	8.58 %	1.28	1.21	1.22	1.10	1.05	1.05
PCB-167	1.32	9.25 %	1.50	1.39	1.39	1.25	1.21	1.19
PCB-156	1.38	8.96 %	1.55	1.47	1.43	1.31	1.27	1.24
PCB-157	1.38	8.83 %	1.54	1.50	1.42	1.30	1.27	1.25
PCB-169	1.27	6.68 %	1.34	1.37	1.32	1.22	1.19	1.17
PCB-188	1.78	7.10 %	1.90	1.90	1.88	1.68	1.68	1.63
PCB-184	1.63	8.25 %	1.79	1.73	1.73	1.53	1.52	1.48
PCB-179	1.63	6.30 %	1.56	1.78	1.74	1.58	1.57	1.54
PCB-176	1.77	6.34 %	1.88	1.84	1.87	1.67	1.68	1.64
PCB-186	1.77	6.02 %	1.85	1.91	1.85	1.68	1.70	1.65
PCB-178	1.28	6.42 %	1.41	1.29	1.34	1.21	1.22	1.20
PCB-175	1.30	7.96 %	1.47	1.37	1.30	1.22	1.22	1.21
PCB-182/187	1.41	6.70 %	1.54	1.46	1.46	1.31	1.35	1.32
PCB-183	1.51	6.54 %	1.60	1.60	1.61	1.44	1.42	1.41
PCB-185	1.78	5.08 %	1.80	1.90	1.87	1.73	1.70	1.68
PCB-174	1.70	11.98 %	1.97	1.82	1.83	1.64	1.44	1.53
PCB-181	1.80	6.11 %	1.93	1.89	1.83	1.65	1.76	1.70
PCB-177	1.59	6.40 %	1.71	1.61	1.70	1.51	1.50	1.49
PCB-171	1.84	5.59 %	1.97	1.94	1.90	1.77	1.75	1.73
PCB-173	1.50	8.22 %	1.69	1.54	1.56	1.43	1.38	1.38
PCB-172	1.77	7.13 %	1.94	1.88	1.82	1.67	1.65	1.65
PCB-192	2.29	7.60 %	2.60	2.32	2.34	2.14	2.17	2.17
PCB-180	1.82	8.12 %	2.06	1.90	1.85	1.75	1.68	1.68
PCB-193	2.38	5.82 %	2.57	2.50	2.41	2.27	2.25	2.26
PCB-191	2.44	6.26 %	2.60	2.60	2.53	2.29	2.31	2.31
PCB-170	1.96	5.05 %	2.03	2.06	2.04	1.92	1.83	1.87
PCB-190	2.72	4.12 %	2.89	2.70	2.82	2.66	2.59	2.69
PCB-189	1.97	6.02 %	2.15	2.01	2.03	1.90	1.85	1.86
PCB-202	1.29	4.77 %	1.32	1.40	1.31	1.26	1.23	1.25
PCB-201	1.40	4.19 %	1.48	1.45	1.36	1.41	1.32	1.39
PCB-204	1.32	3.38 %	1.36	1.32	1.32	1.33	1.24	1.36
PCB-197	1.48	3.21 %	1.52	1.51	1.53	1.46	1.40	1.46
PCB-200	1.38	5.53 %	1.51	1.39	1.39	1.34	1.29	1.34
PCB-198	1.02	3.72 %	1.07	1.02	1.03	0.98	0.97	1.04
PCB-199	0.94	6.11 %	0.83	0.98	0.95	0.99	0.92	0.94
PCB-196/203	1.07	3.10 %	1.01	1.06	1.09	1.11	1.05	1.09
PCB-195	1.01	10.92 %	1.20	1.04	1.05	0.95	0.90	0.92
PCB-194	1.11	11.65 %	1.32	1.18	1.14	1.02	1.00	0.98

PCB-205	1.43	11.12 %	1.69	1.51	1.50	1.33	1.29	1.30
PCB-208	1.16	9.81 %	1.32	1.25	1.19	1.08	1.06	1.04
PCB-207	1.18	9.15 %	1.35	1.25	1.21	1.10	1.09	1.08
PCB-206	0.98	9.97 %	1.15	1.02	1.00	0.92	0.90	0.90
PCB-209	1.56	8.31 %	1.75	1.64	1.63	1.47	1.42	1.46
Total Mono-PCB	1.33	4.58 %	1.40	1.37	1.38	1.29	1.27	1.27
Total Di-PCB	1.05	7.49 %	1.15	1.11	1.12	1.01	0.98	0.96
Total Tri-PCB	1.54	4.44 %	1.64	1.57	1.58	1.48	1.47	1.49

Total Tri-PCB	0.94	12.40 %	1.07	1.08	0.95	0.88	0.80	0.84
Total Tetra-PCB	1.25	10.32 %	1.42	1.34	1.31	1.17	1.14	1.10
Total Penta-PCB	1.47	7.51 %	1.62	1.55	1.51	1.38	1.37	1.37
Total Penta-PCB	1.13	8.91 %	1.26	1.21	1.18	1.06	1.03	1.02
Total Hexa-PCB	1.05	6.74 %	1.16	1.08	1.07	0.97	0.99	1.02
Total Hexa-PCB	1.23	8.31 %	1.36	1.30	1.28	1.17	1.14	1.11
Total Hepta-PCB	1.72	6.43 %	1.85	1.81	1.79	1.63	1.62	1.60
Total Octa-PCB	1.22	2.31 %	1.23	1.24	1.23	1.22	1.16	1.22
Total Octa-PCB	1.18	11.20 %	1.40	1.24	1.23	1.10	1.06	1.07
Total Nona-PCB	1.12	9.51 %	1.28	1.19	1.15	1.04	1.03	1.01
Total Deca-PCB	1.56	8.31 %	1.75	1.64	1.63	1.47	1.42	1.46
13C-PCB-1	0.70	4.46 %	0.74	0.73	0.72	0.67	0.70	0.66
13C-PCB-3	0.79	3.25 %	0.83	0.80	0.79	0.76	0.78	0.76
13C-PCB-4	0.54	2.95 %	0.56	0.55	0.54	0.53	0.54	0.52
13C-PCB-9	0.89	1.89 %	0.91	0.91	0.89	0.89	0.88	0.86
13C-PCB-11	0.93	0.69 %	0.94	0.94	0.93	0.93	0.94	0.92
13C-PCB-19	0.41	8.51 %	0.44	0.44	0.43	0.41	0.36	0.37
13C-PCB-32	0.63	4.86 %	0.66	0.67	0.64	0.60	0.61	0.60
13C-PCB-28	1.04	10.68 %	1.01	0.89	1.17	1.03	1.18	1.00
13C-PCB-37	1.00	6.16 %	1.01	0.92	0.99	0.94	1.07	1.07
13C-PCB-54	0.94	2.60 %	0.95	0.95	0.97	0.93	0.91	0.91
13C-PCB-52	0.74	3.81 %	0.74	0.76	0.77	0.74	0.76	0.69
13C-PCB-47	0.80	1.47 %	0.81	0.79	0.80	0.80	0.78	0.81
13C-PCB-70	0.99	2.57 %	1.00	1.00	1.01	0.95	1.01	0.99
13C-PCB-80	1.01	1.38 %	1.00	1.01	1.00	0.99	1.03	1.02
13C-PCB-81	1.01	4.45 %	0.97	1.02	1.02	0.95	1.05	1.07
13C-PCB-77	0.97	4.68 %	0.94	0.97	0.95	0.91	1.04	1.01
13C-PCB-104	1.01	4.09 %	1.05	1.03	1.03	1.01	0.97	0.94
13C-PCB-95	0.80	2.31 %	0.82	0.82	0.81	0.81	0.79	0.77
13C-PCB-101	0.81	1.52 %	0.81	0.82	0.82	0.80	0.80	0.79
13C-PCB-97	0.70	1.62 %	0.70	0.71	0.71	0.69	0.69	0.69
13C-PCB-123	0.94	0.86 %	0.93	0.95	0.94	0.93	0.93	0.94
13C-PCB-118	0.99	1.53 %	0.98	0.99	0.99	0.98	0.99	1.02
13C-PCB-114	1.18	3.24 %	1.23	1.22	1.20	1.17	1.17	1.12
13C-PCB-105	1.18	6.36 %	1.30	1.21	1.17	1.17	1.15	1.08
13C-PCB-127	1.26	5.63 %	1.38	1.29	1.26	1.25	1.22	1.17
13C-PCB-126	1.17	4.58 %	1.25	1.20	1.18	1.13	1.15	1.10
13C-PCB-155	0.76	5.65 %	0.78	0.80	0.79	0.78	0.72	0.69
13C-PCB-153	1.32	2.07 %	1.36	1.33	1.32	1.30	1.31	1.28
13C-PCB-141	1.11	1.78 %	1.11	1.13	1.11	1.10	1.10	1.08
13C-PCB-138	1.15	1.18 %	1.16	1.17	1.16	1.14	1.16	1.14
13C-PCB-159	1.39	1.30 %	1.38	1.39	1.38	1.38	1.42	1.40
13C-PCB-167	1.41	0.56 %	1.40	1.42	1.41	1.40	1.42	1.41
13C-PCB-156	1.40	1.71 %	1.40	1.38	1.38	1.39	1.44	1.42
13C-PCB-157	1.40	0.85 %	1.39	1.39	1.39	1.39	1.40	1.42
13C-PCB-169	1.38	2.62 %	1.34	1.36	1.35	1.37	1.41	1.43
13C-PCB-188	1.36	3.46 %	1.43	1.37	1.34	1.39	1.30	1.31
13C-PCB-180	0.96	1.26 %	0.96	0.97	0.96	0.99	0.96	0.95
13C-PCB-170	0.83	1.81 %	0.82	0.85	0.84	0.84	0.84	0.81
13C-PCB-189	1.16	1.41 %	1.14	1.17	1.16	1.18	1.16	1.14
13C-PCB-202	0.95	8.58 %	1.04	1.03	0.97	0.92	0.90	0.83

13C-PCB-194	0.74	1.37 %	0.72	0.73	0.73	0.75	0.75	0.73
13C-PCB-208	1.19	5.25 %	1.10	1.14	1.17	1.24	1.23	1.25
13C-PCB-206	0.91	4.11 %	0.84	0.90	0.89	0.93	0.94	0.94
13C-PCB-209	0.80	5.34 %	0.73	0.77	0.78	0.82	0.85	0.83
13C-PCB-15	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-31	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-60	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-111	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-128	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-182	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

13C-PCB 205	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-79	1.02	2.21 %	1.02	1.04	1.05	0.98	1.04	1.02
13C-PCB-178	0.90	3.01 %	0.91	0.91	0.92	0.93	0.88	0.86
13C-PCB-79	1.01	3.28 %	1.05	1.02	1.03	1.03	0.99	0.96
13C-PCB-178	0.94	2.33 %	0.95	0.95	0.96	0.95	0.92	0.90

Filename: 170313E2 S: 1 Acquired: 13-MAR-17 04:06:40
Run: 170313E2 Analyte: ICal: PCBVG8-3-13-17 Results:
Sample text: ST170313E2-1 PCB CS0 17C0307

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	0.25	9.32e+05	2.97 y	16:05	-	1.42
2	Mono	PCB-2	0.25	9.90e+05	3.06 y	18:28	-	1.36
3	Mono	PCB-3	0.25	1.03e+06	3.02 y	18:43	-	1.42
4	Di	PCB-4/10	0.50	1.42e+06	1.55 y	20:05	-	1.43
5	Di	PCB-7/9	0.50	1.72e+06	1.62 y	21:52	-	1.07
6	Di	PCB-6	0.25	8.24e+05	1.51 y	22:32	-	1.03
7	Di	PCB-5/8	0.50	1.80e+06	1.48 y	22:56	-	1.12
8	Di	PCB-14	0.25	1.04e+06	1.61 y	24:02	-	1.25
9	Di	PCB-11	0.25	9.76e+05	1.39 y	25:14	-	1.18
10	Di	PCB-12/13	0.50	1.89e+06	1.44 y	25:38	-	1.14
11	Di	PCB-15	0.25	1.03e+06	1.54 y	25:56	-	1.24
12	Tri	PCB-19	0.25	6.08e+05	1.06 y	24:13	-	1.55
13	Tri	PCB-30	0.25	1.02e+06	1.08 y	25:07	-	2.59
14	Tri	PCB-18	0.25	7.04e+05	1.10 y	25:51	-	1.22
15	Tri	PCB-17	0.25	7.71e+05	1.13 y	26:02	-	1.33
16	Tri	PCB-24/27	0.50	1.96e+06	1.09 y	26:37	-	1.69
17	Tri	PCB-16/32	0.50	1.70e+06	1.07 y	27:07	-	1.47
18	Tri	PCB-34	0.25	8.14e+05	1.14 y	27:55	-	1.10
19	Tri	PCB-23	0.25	8.31e+05	1.04 y	28:01	-	1.13
20	Tri	PCB-29	0.25	8.16e+05	0.99 y	28:15	-	1.11
21	Tri	PCB-26	0.25	8.19e+05	1.03 y	28:29	-	1.11
22	Tri	PCB-25	0.25	7.26e+05	1.00 y	28:38	-	0.99
23	Tri	PCB-31	0.25	8.29e+05	1.04 y	29:00	-	1.12
24	Tri	PCB-28	0.25	8.47e+05	1.05 y	29:07	-	1.15
25	Tri	PCB-20/21/33	0.75	2.23e+06	1.02 y	29:43	-	1.01
26	Tri	PCB-22	0.25	8.46e+05	1.04 y	30:09	-	1.15
27	Tri	PCB-36	0.25	8.14e+05	0.97 y	30:47	-	1.10
28	Tri	PCB-39	0.25	8.52e+05	0.94 y	31:15	-	1.16
29	Tri	PCB-38	0.25	7.01e+05	1.04 y	32:02	-	0.95
30	Tri	PCB-35	0.25	7.15e+05	1.08 y	32:32	-	0.97
31	Tri	PCB-37	0.25	8.03e+05	0.98 y	32:58	-	1.09
32	Tetra	PCB-54	0.25	8.92e+05	0.82 y	27:58	-	1.34
33	Tetra	PCB-50	0.25	7.32e+05	0.75 y	29:09	-	1.10
34	Tetra	PCB-53	0.25	6.94e+05	0.80 y	29:47	-	1.35
35	Tetra	PCB-51	0.25	7.89e+05	0.81 y	30:08	-	1.53
36	Tetra	PCB-45	0.25	6.68e+05	0.83 y	30:34	-	1.30
37	Tetra	PCB-46	0.25	6.34e+05	0.79 y	31:03	-	1.23
38	Tetra	PCB-52/69	0.50	1.66e+06	0.79 y	31:32	-	1.61
39	Tetra	PCB-73	0.25	8.34e+05	0.79 y	31:39	-	1.62
40	Tetra	PCB-43/49	0.50	1.41e+06	0.73 y	31:49	-	1.37

41	Tetra	PCB-47	0.25	7.10e+05	0.80	y	32:01	-	1.25
42	Tetra	PCB-48/75	0.50	1.82e+06	0.86	y	32:08	-	1.61
43	Tetra	PCB-65	0.25	8.19e+05	0.78	y	32:24	-	1.45
44	Tetra	PCB-62	0.25	8.34e+05	0.82	y	32:31	-	1.47
45	Tetra	PCB-44	0.25	6.33e+05	0.88	y	32:49	-	1.12
46	Tetra	PCB-42/59	0.50	1.68e+06	0.86	y	33:03	-	1.49
47	Tetra	PCB-41/64/71/72	1.00	3.58e+06	0.81	y	33:38	-	1.58
48	Tetra	PCB-68	0.25	1.03e+06	0.73	y	33:54	-	1.83
49	Tetra	PCB-40	0.25	6.44e+05	0.81	y	34:07	-	1.14
50	Tetra	PCB-57	0.25	9.47e+05	0.85	y	34:28	-	1.35
51	Tetra	PCB-67	0.25	9.18e+05	0.73	y	34:46	-	1.31

52	Tetra	PCB-58	0.25	1.08e+06	0.78 y	34:53	-	1.53
53	Tetra	PCB-63	0.25	1.04e+06	0.75 y	35:03	-	1.48
54	Tetra	PCB-74	0.25	9.85e+05	0.80 y	35:20	-	1.40
55	Tetra	PCB-61/70	0.50	2.05e+06	0.73 y	35:31	-	1.46
56	Tetra	PCB-76/66	0.50	1.92e+06	0.83 y	35:44	-	1.37
57	Tetra	PCB-80	0.25	1.17e+06	0.77 y	35:58	-	1.67
58	Tetra	PCB-55	0.25	1.06e+06	0.78 y	36:17	-	1.51
59	Tetra	PCB-56/60	0.50	2.00e+06	0.83 y	36:47	-	1.42
60	Tetra	PCB-79	0.25	1.05e+06	0.78 y	37:50	-	1.50
61	Tetra	PCB-78	0.25	9.80e+05	0.78 y	38:33	-	1.44
62	Tetra	PCB-81	0.25	1.02e+06	0.85 y	39:04	-	1.51
63	Tetra	PCB-77	0.25	1.06e+06	0.84 y	39:40	-	1.61
64	Penta	PCB-104	0.25	5.70e+05	1.74 y	32:40	-	1.65
65	Penta	PCB-96	0.25	4.67e+05	1.74 y	33:55	-	1.35
66	Penta	PCB-103	0.25	4.21e+05	1.49 y	34:28	-	1.22
67	Penta	PCB-100	0.25	4.24e+05	1.65 y	34:50	-	1.23
68	Penta	PCB-94	0.25	3.92e+05	1.63 y	35:18	-	1.45
69	Penta	PCB-95/98/102	0.75	1.29e+06	1.56 y	35:48	-	1.59
70	Penta	PCB-93	0.25	3.19e+05	1.71 y	35:56	-	1.18
71	Penta	PCB-88/91	0.50	8.29e+05	1.68 y	36:13	-	1.53
72	Penta	PCB-121	0.25	5.62e+05	1.64 y	36:20	-	2.07
73	Penta	PCB-84/92	0.50	7.57e+05	1.60 y	37:08	-	1.42
74	Penta	PCB-89	0.25	3.70e+05	1.66 y	37:20	-	1.39
75	Penta	PCB-90/101	0.50	9.06e+05	1.61 y	37:31	-	1.70
76	Penta	PCB-113	0.25	4.46e+05	1.70 y	37:45	-	1.67
77	Penta	PCB-99	0.25	4.81e+05	1.53 y	37:50	-	1.80
78	Penta	PCB-119	0.25	5.91e+05	1.45 y	38:19	-	2.55
79	Penta	PCB-108/112	0.50	9.02e+05	1.61 y	38:28	-	1.95
80	Penta	PCB-83	0.25	5.09e+05	1.42 y	38:37	-	2.20
81	Penta	PCB-97	0.25	3.91e+05	1.58 y	38:50	-	1.69
82	Penta	PCB-86	0.25	3.24e+05	1.63 y	38:58	-	1.40
83	Penta	PCB-87/117/125	0.75	1.46e+06	1.46 y	39:05	-	2.11
84	Penta	PCB-111/115	0.50	1.13e+06	1.68 y	39:15	-	2.45
85	Penta	PCB-85/116	0.50	9.02e+05	1.77 y	39:23	-	1.95
86	Penta	PCB-120	0.25	6.89e+05	1.50 y	39:38	-	2.98
87	Penta	PCB-110	0.25	5.14e+05	1.39 y	39:46	-	2.22
88	Penta	PCB-82	0.25	3.00e+05	1.76 y	40:23	-	0.98
89	Penta	PCB-124	0.25	5.17e+05	1.48 y	41:04	-	1.68
90	Penta	PCB-107/109	0.50	1.06e+06	1.65 y	41:13	-	1.72
91	Penta	PCB-123	0.25	5.37e+05	1.67 y	41:23	-	1.75
92	Penta	PCB-106/118	0.50	1.15e+06	1.65 y	41:35	-	1.78
93	Penta	PCB-114	0.25	6.44e+05	1.66 y	42:13	-	1.22
94	Penta	PCB-122	0.25	6.48e+05	1.55 y	42:21	-	1.23
95	Penta	PCB-105	0.25	7.97e+05	1.65 y	43:05	-	1.43
96	Penta	PCB-127	0.25	7.02e+05	1.39 y	43:25	-	1.19
97	Penta	PCB-126	0.25	6.50e+05	1.33 y	45:19	-	1.21
98	Hexa	PCB-155	0.25	3.60e+05	1.32 y	37:04	-	1.40
99	Hexa	PCB-150	0.25	3.49e+05	1.21 y	38:19	-	1.36
100	Hexa	PCB-152	0.25	3.78e+05	1.30 y	38:47	-	1.47
101	Hexa	PCB-145	0.25	3.72e+05	1.13 y	39:15	-	1.45

102	Hexa	PCB-136	0.25	3.78e+05	1.14	y	39:34	-	1.47
103	Hexa	PCB-148	0.25	2.86e+05	1.29	y	39:41	-	1.11
104	Hexa	PCB-154	0.25	2.82e+05	1.29	y	40:10	-	1.10
105	Hexa	PCB-151	0.25	2.30e+05	1.35	y	40:48	-	0.90
106	Hexa	PCB-135	0.25	2.50e+05	1.41	y	41:01	-	0.97
107	Hexa	PCB-144	0.25	2.57e+05	1.09	y	41:07	-	1.00
108	Hexa	PCB-147	0.25	2.54e+05	1.24	y	41:15	-	0.99
109	Hexa	PCB-139/149	0.50	5.42e+05	1.41	y	41:31	-	1.05
110	Hexa	PCB-140	0.25	2.45e+05	1.41	y	41:42	-	0.95
111	Hexa	PCB-134/143	0.50	1.19e+06	1.21	y	42:09	-	1.01
112	Hexa	PCB-131/133	0.50	1.17e+06	1.11	y	42:27	-	1.00

113	Hexa	PCB-142	0.25	5.94e+05	1.28	y	42:36	-	1.02
114	Hexa	PCB-146/165	0.50	1.56e+06	1.29	y	42:49	-	1.33
115	Hexa	PCB-132/161	0.50	1.54e+06	1.24	y	43:04	-	1.31
116	Hexa	PCB-153	0.25	8.21e+05	1.31	y	43:14	-	1.40
117	Hexa	PCB-168	0.25	9.47e+05	1.17	y	43:27	-	1.62
118	Hexa	PCB-141	0.25	7.19e+05	1.39	y	43:58	-	1.51
119	Hexa	PCB-137	0.25	6.78e+05	1.28	y	44:22	-	1.42
120	Hexa	PCB-130	0.25	6.17e+05	1.31	y	44:27	-	1.30
121	Hexa	PCB-138/163/164	0.75	2.43e+06	1.21	y	44:50	-	1.62
122	Hexa	PCB-158/160	0.50	1.69e+06	1.29	y	45:04	-	1.69
123	Hexa	PCB-129	0.25	5.84e+05	1.38	y	45:19	-	1.17
124	Hexa	PCB-166	0.25	8.39e+05	1.33	y	45:46	-	1.42
125	Hexa	PCB-159	0.25	9.31e+05	1.12	y	46:06	-	1.57
126	Hexa	PCB-128/162	0.50	1.52e+06	1.14	y	46:23	-	1.28
127	Hexa	PCB-167	0.25	8.97e+05	1.21	y	46:47	-	1.50
128	Hexa	PCB-156	0.25	9.33e+05	1.18	y	48:05	-	1.55
129	Hexa	PCB-157	0.25	9.17e+05	1.18	y	48:20	-	1.54
130	Hexa	PCB-169	0.25	7.65e+05	1.19	y	50:32	-	1.34
131	Hepta	PCB-188	0.25	6.52e+05	1.01	y	42:52	-	1.90
132	Hepta	PCB-184	0.25	6.17e+05	1.03	y	43:19	-	1.79
133	Hepta	PCB-179	0.25	5.35e+05	1.19	y	44:06	-	1.56
134	Hepta	PCB-176	0.25	6.47e+05	1.02	y	44:34	-	1.88
135	Hepta	PCB-186	0.25	6.36e+05	1.07	y	45:10	-	1.85
136	Hepta	PCB-178	0.25	4.83e+05	1.05	y	45:40	-	1.41
137	Hepta	PCB-175	0.25	5.06e+05	0.96	y	46:01	-	1.47
138	Hepta	PCB-182/187	0.50	1.06e+06	1.04	y	46:11	-	1.54
139	Hepta	PCB-183	0.25	5.48e+05	1.11	y	46:30	-	1.60
140	Hepta	PCB-185	0.25	4.16e+05	1.05	y	47:09	-	1.80
141	Hepta	PCB-174	0.25	4.57e+05	1.07	y	47:31	-	1.97
142	Hepta	PCB-181	0.25	4.48e+05	1.14	y	47:38	-	1.93
143	Hepta	PCB-177	0.25	3.96e+05	0.92	y	47:47	-	1.71
144	Hepta	PCB-171	0.25	4.55e+05	1.11	y	48:05	-	1.97
145	Hepta	PCB-173	0.25	3.92e+05	1.18	y	48:30	-	1.69
146	Hepta	PCB-172	0.25	4.48e+05	1.06	y	48:58	-	1.94
147	Hepta	PCB-192	0.25	6.02e+05	1.16	y	49:09	-	2.60
148	Hepta	PCB-180	0.25	4.78e+05	0.98	y	49:22	-	2.06
149	Hepta	PCB-193	0.25	5.96e+05	1.06	y	49:34	-	2.57
150	Hepta	PCB-191	0.25	6.02e+05	1.13	y	49:49	-	2.60
151	Hepta	PCB-170	0.25	4.02e+05	1.17	y	50:55	-	2.03
152	Hepta	PCB-190	0.25	5.72e+05	1.00	y	51:06	-	2.89
153	Hepta	PCB-189	0.25	5.94e+05	1.13	y	52:28	-	2.15
154	Octa	PCB-202	0.25	3.30e+05	0.98	y	48:16	-	1.32
155	Octa	PCB-201	0.25	3.70e+05	0.89	y	48:45	-	1.48
156	Octa	PCB-204	0.25	3.40e+05	0.87	y	48:54	-	1.36
157	Octa	PCB-197	0.25	3.81e+05	0.95	y	49:13	-	1.52
158	Octa	PCB-200	0.25	3.79e+05	0.97	y	50:07	-	1.51
159	Octa	PCB-198	0.25	2.67e+05	1.00	y	51:32	-	1.07
160	Octa	PCB-199	0.25	2.08e+05	0.79	y	51:39	-	0.83
161	Octa	PCB-196/203	0.50	5.07e+05	0.94	y	51:55	-	1.01
162	Octa	PCB-195	0.25	4.37e+05	0.84	y	53:08	-	1.20

163	Octa	PCB-194	0.25	4.80e+05	0.89	y	54:01	-	1.32
164	Octa	PCB-205	0.25	6.17e+05	0.88	y	54:17	-	1.69
165	Nona	PCB-208	0.25	7.28e-05	1.36	y	53:17	-	1.32
166	Nona	PCB-207	0.25	7.44e+05	1.28	y	53:36	-	1.35
167	Nona	PCB-206	0.25	4.91e+05	1.38	y	55:35	-	1.15
168	Deca	PCB-209	0.25	6.47e+05	1.07	y	56:56	-	1.75
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.40
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.15

171	Tot	Total Tri-PCB	0.00	-	-	n	-	-	1.64
172	Tot	Total Tri-PCB	0.00	-	-	n	-	-	1.07
173	Tot	Total Tetra-PCB	0.00	-	-	n	-	-	1.42
174	Tot	Total Penta-PCB	0.00	-	-	n	-	-	1.62
175	Tot	Total Penta-PCB	0.00	-	-	n	-	-	1.26
176	Tot	Total Hexa-PCB	0.00	-	-	n	-	-	1.16
177	Tot	Total Hexa-PCB	0.00	-	-	n	-	-	1.36
178	Tot	Total Hepta-PCB	0.00	-	-	n	-	-	1.85
179	Tot	Total Octa-PCB	0.00	-	-	n	-	-	1.23
180	Tot	Total Octa-PCB	0.00	-	-	n	-	-	1.40
181	Tot	Total Nona-PCB	0.00	-	-	n	-	-	1.28
182	Tot	Total Deca-PCB	0.25	6.47e+05	1.07	y	56:56	-	1.75
183	Mono	13C-PCB-1	100.00	2.62e+08	3.23	y	16:04	-	0.74
184	Mono	13C-PCB-3	100.00	2.91e+08	3.22	y	18:41	-	0.83
185	Di-IS	13C-PCB-4	100.00	1.99e+08	1.57	y	20:02	-	0.56
186	Di-IS	13C-PCB-9	100.00	3.21e+08	1.54	y	21:50	-	0.91
187	Di-IS	13C-PCB-11	100.00	3.31e+08	1.53	y	25:13	-	0.94
188	Tri-	13C-PCB-19	100.00	1.57e+08	1.07	y	24:11	-	0.44
189	Tri-	13C-PCB-32	100.00	2.31e+08	1.08	y	27:07	-	0.66
190	Tri-	13C-PCB-28	100.00	2.95e+08	1.02	y	29:05	-	1.01
191	Tri-	13C-PCB-37	100.00	2.95e+08	1.03	y	32:58	-	1.01
192	Tetr	13C-PCB-54	100.00	2.67e+08	0.81	y	27:57	-	0.95
193	Tetr	13C-PCB-52	100.00	2.06e+08	0.81	y	31:30	-	0.74
194	Tetr	13C-PCB-47	100.00	2.26e+08	0.81	y	32:00	-	0.81
195	Tetr	13C-PCB-70	100.00	2.81e+08	0.83	y	35:32	-	1.00
196	Tetr	13C-PCB-80	100.00	2.81e+08	0.82	y	35:57	-	1.00
197	Tetr	13C-PCB-81	100.00	2.71e+08	0.80	y	39:03	-	0.97
198	Tetr	13C-PCB-77	100.00	2.63e+08	0.82	y	39:38	-	0.94
199	Pent	13C-PCB-104	100.00	1.38e+08	1.60	y	32:39	-	1.05
200	Pent	13C-PCB-95	100.00	1.08e+08	1.60	y	35:49	-	0.82
201	Pent	13C-PCB-101	100.00	1.07e+08	1.62	y	37:31	-	0.81
202	Pent	13C-PCB-97	100.00	9.26e+07	1.63	y	38:48	-	0.70
203	Pent	13C-PCB-123	100.00	1.23e+08	1.61	y	41:22	-	0.93
204	Pent	13C-PCB-118	100.00	1.29e+08	1.65	y	41:33	-	0.98
205	Pent	13C-PCB-114	100.00	2.11e+08	1.58	y	42:12	-	1.23
206	Pent	13C-PCB-105	100.00	2.23e+08	1.59	y	43:04	-	1.30
207	Pent	13C-PCB-127	100.00	2.37e+08	1.58	y	43:25	-	1.38
208	Pent	13C-PCB-126	100.00	2.14e+08	1.58	y	45:18	-	1.25
209	Hexa	13C-PCB-155	100.00	1.03e+08	1.27	y	37:03	-	0.78
210	Hexa	13C-PCB-153	100.00	2.34e+08	1.28	y	43:13	-	1.36
211	Hexa	13C-PCB-141	100.00	1.90e+08	1.28	y	43:58	-	1.11
212	Hexa	13C-PCB-138	100.00	2.00e+08	1.27	y	44:48	-	1.16
213	Hexa	13C-PCB-159	100.00	2.36e+08	1.29	y	46:05	-	1.38
214	Hexa	13C-PCB-167	100.00	2.40e+08	1.30	y	46:46	-	1.40
215	Hexa	13C-PCB-156	100.00	2.41e+08	1.28	y	48:03	-	1.40
216	Hexa	13C-PCB-157	100.00	2.39e+08	1.27	y	48:20	-	1.39
217	Hexa	13C-PCB-169	100.00	2.29e+08	1.30	y	50:31	-	1.34
218	Hept	13C-PCB-188	100.00	1.37e+08	0.46	y	42:51	-	1.43
219	Hept	13C-PCB-180	100.00	9.27e+07	0.46	y	49:21	-	0.96
220	Hept	13C-PCB-170	100.00	7.91e+07	0.47	y	50:54	-	0.82
221	Hept	13C-PCB-189	100.00	1.10e+08	0.48	y	52:28	-	1.14

222	Octa╗	13C-PCB-202	100.00	1.00e+08	0.93 y	48:16	-	1.04
223	Octa╗	13C-PCB-194	100.00	1.46e+08	0.90 y	54:00	-	0.72
224	Nona╗	13C-PCB-208	100.00	2.21e+08	0.79 y	53:16	-	1.10
225	Nona╗	13C-PCB-206	100.00	1.71e+08	0.79 y	55:35	-	0.84
226	Deca╗	13C-PCB-209	100.00	1.48e+08	1.21 y	56:55	-	0.73
227	DI-RS	13C-PCB-15	100.00	3.53e+08	1.54 y	25:55	-	1.00
228	Tri-╗	13C-PCB-31	100.00	2.93e+08	1.02 y	28:59	-	1.00
229	Tetr╗	13C-PCB-60	100.00	2.80e+08	0.81 y	36:46	-	1.00
230	Penta	13C-PCB-111	100.00	1.32e+08	1.62 y	39:15	-	1.00
231	Hexa╗	13C-PCB-128	100.00	1.72e+08	1.27 y	46:21	-	1.00

232	Hept¬	13C-PCB-182	100.00	9.64e+07	0.46 y	46:11	-	1.00
233	Octa¬	13C-PCB-205	100.00	2.02e+08	0.90 y	54:16	-	1.00
234	CRS	13C-PCB-79	100.00	2.84e+08	0.81 y	37:50	-	1.02
235	CRS	13C-PCB-178	100.00	8.80e+07	0.47 y	45:39	-	0.91
236	PS	13C-PCB-79	100.00	2.84e+08	0.81 y	37:50	-	1.05
237	PS	13C-PCB-178	100.00	8.80e+07	0.47 y	45:39	-	0.95

Filename: 170313E2 S: 2 Acquired: 13-MAR-17 05:11:29
Run: 170313E2 Analyte: ICal: PCBVG8-3-13-17 Results:
Sample text: ST170313E2-2 PCB CS1 17C0309

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	1.00	3.53e+06	3.13 y	16:06	-	1.41
2	Mono	PCB-2	1.00	3.73e+06	3.23 y	18:29	-	1.35
3	Mono	PCB-3	1.00	3.78e+06	3.08 y	18:43	-	1.37
4	Di	PCB-4/10	2.00	5.23e+06	1.59 y	20:06	-	1.38
5	Di	PCB-7/9	2.00	6.54e+06	1.60 y	21:53	-	1.05
6	Di	PCB-6	1.00	3.23e+06	1.58 y	22:32	-	1.03
7	Di	PCB-5/8	2.00	6.72e+06	1.61 y	22:57	-	1.08
8	Di	PCB-14	1.00	4.03e+06	1.65 y	24:03	-	1.25
9	Di	PCB-11	1.00	3.47e+06	1.49 y	25:15	-	1.07
10	Di	PCB-12/13	2.00	7.05e+06	1.49 y	25:39	-	1.09
11	Di	PCB-15	1.00	3.93e+06	1.66 y	25:57	-	1.22
12	Tri	PCB-19	1.00	2.35e+06	1.05 y	24:13	-	1.57
13	Tri	PCB-30	1.00	3.85e+06	1.03 y	25:08	-	2.56
14	Tri	PCB-18	1.00	2.58e+06	1.09 y	25:53	-	1.12
15	Tri	PCB-17	1.00	2.83e+06	1.05 y	26:03	-	1.23
16	Tri	PCB-24/27	2.00	7.58e+06	1.04 y	26:38	-	1.64
17	Tri	PCB-16/32	2.00	6.34e+06	1.07 y	27:08	-	1.38
18	Tri	PCB-34	1.00	2.99e+06	0.96 y	27:56	-	1.14
19	Tri	PCB-23	1.00	2.98e+06	0.99 y	28:02	-	1.14
20	Tri	PCB-29	1.00	2.97e+06	1.04 y	28:17	-	1.13
21	Tri	PCB-26	1.00	2.99e+06	1.04 y	28:29	-	1.14
22	Tri	PCB-25	1.00	2.74e+06	1.01 y	28:39	-	1.04
23	Tri	PCB-31	1.00	3.14e+06	1.00 y	29:00	-	1.20
24	Tri	PCB-28	1.00	2.66e+06	1.00 y	29:07	-	1.01
25	Tri	PCB-20/21/33	3.00	8.17e+06	0.97 y	29:43	-	1.04
26	Tri	PCB-22	1.00	2.93e+06	0.93 y	30:10	-	1.12
27	Tri	PCB-36	1.00	2.81e+06	1.01 y	30:48	-	1.03
28	Tri	PCB-39	1.00	3.06e+06	0.99 y	31:16	-	1.12
29	Tri	PCB-38	1.00	2.77e+06	0.99 y	32:02	-	1.02
30	Tri	PCB-35	1.00	2.59e+06	0.97 y	32:33	-	0.95
31	Tri	PCB-37	1.00	3.11e+06	1.03 y	33:00	-	1.14
32	Tetra	PCB-54	1.00	3.47e+06	0.80 y	27:59	-	1.28
33	Tetra	PCB-50	1.00	2.69e+06	0.82 y	29:09	-	0.99
34	Tetra	PCB-53	1.00	2.81e+06	0.74 y	29:48	-	1.30
35	Tetra	PCB-51	1.00	2.92e+06	0.81 y	30:09	-	1.35
36	Tetra	PCB-45	1.00	2.38e+06	0.79 y	30:35	-	1.10
37	Tetra	PCB-46	1.00	2.30e+06	0.80 y	31:04	-	1.06
38	Tetra	PCB-52/69	2.00	6.33e+06	0.78 y	31:33	-	1.46
39	Tetra	PCB-73	1.00	3.62e+06	0.81 y	31:40	-	1.67
40	Tetra	PCB-43/49	2.00	5.32e+06	0.81 y	31:50	-	1.23
41	Tetra	PCB-47	1.00	2.91e+06	0.80 y	32:02	-	1.29

42	Tetra	PCB-48/75	2.00	6.62e+06	0.81	y	32:08	-	1.47
43	Tetra	PCB-65	1.00	3.03e+06	0.77	y	32:24	-	1.34
44	Tetra	PCB-62	1.00	3.48e+06	0.77	y	32:31	-	1.54
45	Tetra	PCB-44	1.00	2.33e+06	0.74	y	32:49	-	1.04
46	Tetra	PCB-42/59	2.00	6.41e+06	0.75	y	33:03	-	1.42
47	Tetra	PCB-41/64/71/72	4.00	1.38e+07	0.78	y	33:39	-	1.54
48	Tetra	PCB-68	1.00	4.08e+06	0.74	y	33:54	-	1.81
49	Tetra	PCB-40	1.00	2.25e+06	0.78	y	34:07	-	1.00
50	Tetra	PCB-57	1.00	3.64e+06	0.80	y	34:29	-	1.28
51	Tetra	PCB-67	1.00	3.72e+06	0.77	y	34:47	-	1.31
52	Tetra	PCB-58	1.00	3.85e+06	0.76	y	34:54	-	1.36

53	Tetra	PCB-63	1.00	3.97e+06	0.82 y	35:03	-	1.40
54	Tetra	PCB-74	1.00	4.05e+06	0.81 y	35:20	-	1.43
55	Tetra	PCB-61/70	2.00	7.29e+06	0.80 y	35:31	-	1.29
56	Tetra	PCB-76/66	2.00	7.95e+06	0.78 y	35:44	-	1.40
57	Tetra	PCB-80	1.00	4.53e+06	0.81 y	35:59	-	1.58
58	Tetra	PCB-55	1.00	4.15e+06	0.82 y	36:17	-	1.45
59	Tetra	PCB-56/60	2.00	7.90e+06	0.78 y	36:47	-	1.38
60	Tetra	PCB-79	1.00	4.18e+06	0.78 y	37:52	-	1.46
61	Tetra	PCB-78	1.00	4.04e+06	0.76 y	38:33	-	1.40
62	Tetra	PCB-81	1.00	4.24e+06	0.79 y	39:04	-	1.47
63	Tetra	PCB-77	1.00	4.14e+06	0.79 y	39:41	-	1.50
64	Penta	PCB-104	1.00	2.28e+06	1.55 y	32:41	-	1.55
65	Penta	PCB-96	1.00	2.08e+06	1.63 y	33:56	-	1.42
66	Penta	PCB-103	1.00	1.81e+06	1.62 y	34:29	-	1.23
67	Penta	PCB-100	1.00	1.77e+06	1.43 y	34:50	-	1.21
68	Penta	PCB-94	1.00	1.56e+06	1.58 y	35:18	-	1.34
69	Penta	PCB-95/98/102	3.00	5.01e+06	1.61 y	35:48	-	1.44
70	Penta	PCB-93	1.00	1.59e+06	1.59 y	35:56	-	1.37
71	Penta	PCB-88/91	2.00	3.19e+06	1.60 y	36:13	-	1.37
72	Penta	PCB-121	1.00	2.38e+06	1.65 y	36:20	-	2.05
73	Penta	PCB-84/92	2.00	3.25e+06	1.60 y	37:10	-	1.40
74	Penta	PCB-89	1.00	1.50e+06	1.58 y	37:20	-	1.29
75	Penta	PCB-90/101	2.00	3.63e+06	1.55 y	37:31	-	1.56
76	Penta	PCB-113	1.00	2.02e+06	1.56 y	37:46	-	1.74
77	Penta	PCB-99	1.00	1.82e+06	1.78 y	37:52	-	1.57
78	Penta	PCB-119	1.00	2.34e+06	1.51 y	38:19	-	2.31
79	Penta	PCB-108/112	2.00	3.58e+06	1.64 y	38:28	-	1.77
80	Penta	PCB-83	1.00	2.25e+06	1.64 y	38:38	-	2.23
81	Penta	PCB-97	1.00	1.73e+06	1.48 y	38:50	-	1.71
82	Penta	PCB-86	1.00	1.21e+06	1.45 y	38:59	-	1.19
83	Penta	PCB-87/117/125	3.00	6.14e+06	1.67 y	39:05	-	2.03
84	Penta	PCB-111/115	2.00	4.81e+06	1.59 y	39:16	-	2.38
85	Penta	PCB-85/116	2.00	3.52e+06	1.62 y	39:22	-	1.74
86	Penta	PCB-120	1.00	2.48e+06	1.50 y	39:38	-	2.45
87	Penta	PCB-110	1.00	2.14e+06	1.64 y	39:46	-	2.12
88	Penta	PCB-82	1.00	1.31e+06	1.63 y	40:24	-	0.97
89	Penta	PCB-124	1.00	2.38e+06	1.59 y	41:05	-	1.77
90	Penta	PCB-107/109	2.00	4.25e+06	1.72 y	41:14	-	1.58
91	Penta	PCB-123	1.00	2.33e+06	1.72 y	41:24	-	1.73
92	Penta	PCB-106/118	2.00	4.62e+06	1.63 y	41:35	-	1.65
93	Penta	PCB-114	1.00	2.80e+06	1.47 y	42:13	-	1.27
94	Penta	PCB-122	1.00	2.63e+06	1.70 y	42:22	-	1.19
95	Penta	PCB-105	1.00	2.87e+06	1.55 y	43:05	-	1.30
96	Penta	PCB-127	1.00	2.49e+06	1.59 y	43:26	-	1.06
97	Penta	PCB-126	1.00	2.67e+06	1.54 y	45:19	-	1.22
98	Hexa	PCB-155	1.00	1.56e+06	1.24 y	37:05	-	1.37
99	Hexa	PCB-150	1.00	1.39e+06	1.28 y	38:20	-	1.23
100	Hexa	PCB-152	1.00	1.39e+06	1.24 y	38:48	-	1.22
101	Hexa	PCB-145	1.00	1.34e+06	1.25 y	39:16	-	1.18
102	Hexa	PCB-136	1.00	1.45e+06	1.24 y	39:35	-	1.28

103	Hexa	PCB-148	1.00	1.05e+06	1.32 y	39:42	-	0.93
104	Hexa	PCB-154	1.00	1.15e+06	1.14 y	40:11	-	1.01
105	Hexa	PCB-151	1.00	1.11e+06	1.31 y	40:49	-	0.98
106	Hexa	PCB-135	1.00	9.53e+05	1.28 y	41:01	-	0.84
107	Hexa	PCB-144	1.00	1.23e+06	1.26 y	41:08	-	1.08
108	Hexa	PCB-147	1.00	9.90e+05	1.26 y	41:16	-	0.87
109	Hexa	PCB-139/149	2.00	2.38e+06	1.32 y	41:32	-	1.05
110	Hexa	PCB-140	1.00	1.07e+06	1.30 y	41:43	-	0.95
111	Hexa	PCB-134/143	2.00	4.85e+06	1.33 y	42:10	-	1.00
112	Hexa	PCB-131/133	2.00	4.76e+06	1.22 y	42:27	-	0.99
113	Hexa	PCB-142	1.00	2.33e+06	1.29 y	42:36	-	0.97

114	Hexa	PCB-146/165	2.00	5.89e+06	1.29	y	42:50	-	1.22
115	Hexa	PCB-132/161	2.00	5.94e+06	1.27	y	43:04	-	1.23
116	Hexa	PCB-153	1.00	3.18e+06	1.28	y	43:14	-	1.32
117	Hexa	PCB-168	1.00	3.73e+06	1.21	y	43:27	-	1.54
118	Hexa	PCB-141	1.00	2.80e+06	1.28	y	44:00	-	1.36
119	Hexa	PCB-137	1.00	2.98e+06	1.29	y	44:22	-	1.45
120	Hexa	PCB-130	1.00	2.13e+06	1.28	y	44:28	-	1.03
121	Hexa	PCB-138/163/164	3.00	9.65e+06	1.22	y	44:50	-	1.52
122	Hexa	PCB-158/160	2.00	7.14e+06	1.23	y	45:05	-	1.69
123	Hexa	PCB-129	1.00	2.43e+06	1.31	y	45:19	-	1.15
124	Hexa	PCB-166	1.00	3.52e+06	1.26	y	45:46	-	1.40
125	Hexa	PCB-159	1.00	3.90e+06	1.35	y	46:07	-	1.55
126	Hexa	PCB-128/162	2.00	6.08e+06	1.29	y	46:24	-	1.21
127	Hexa	PCB-167	1.00	3.57e+06	1.26	y	46:47	-	1.39
128	Hexa	PCB-156	1.00	3.70e+06	1.22	y	48:05	-	1.47
129	Hexa	PCB-157	1.00	3.81e+06	1.22	y	48:21	-	1.50
130	Hexa	PCB-169	1.00	3.40e+06	1.28	y	50:33	-	1.37
131	Hepta	PCB-188	1.00	2.72e+06	1.06	y	42:53	-	1.90
132	Hepta	PCB-184	1.00	2.48e+06	1.02	y	43:20	-	1.73
133	Hepta	PCB-179	1.00	2.55e+06	1.06	y	44:06	-	1.78
134	Hepta	PCB-176	1.00	2.65e+06	1.11	y	44:34	-	1.84
135	Hepta	PCB-186	1.00	2.74e+06	1.04	y	45:10	-	1.91
136	Hepta	PCB-178	1.00	1.85e+06	1.06	y	45:40	-	1.29
137	Hepta	PCB-175	1.00	1.96e+06	1.05	y	46:01	-	1.37
138	Hepta	PCB-182/187	2.00	4.18e+06	1.06	y	46:11	-	1.46
139	Hepta	PCB-183	1.00	2.29e+06	1.11	y	46:30	-	1.60
140	Hepta	PCB-185	1.00	1.91e+06	1.05	y	47:10	-	1.90
141	Hepta	PCB-174	1.00	1.83e+06	1.03	y	47:31	-	1.82
142	Hepta	PCB-181	1.00	1.90e+06	1.06	y	47:38	-	1.89
143	Hepta	PCB-177	1.00	1.62e+06	1.00	y	47:48	-	1.61
144	Hepta	PCB-171	1.00	1.96e+06	1.12	y	48:05	-	1.94
145	Hepta	PCB-173	1.00	1.55e+06	1.10	y	48:31	-	1.54
146	Hepta	PCB-172	1.00	1.89e+06	1.12	y	48:58	-	1.88
147	Hepta	PCB-192	1.00	2.34e+06	1.13	y	49:09	-	2.32
148	Hepta	PCB-180	1.00	1.91e+06	1.05	y	49:22	-	1.90
149	Hepta	PCB-193	1.00	2.52e+06	1.05	y	49:35	-	2.50
150	Hepta	PCB-191	1.00	2.62e+06	1.05	y	49:50	-	2.60
151	Hepta	PCB-170	1.00	1.83e+06	1.12	y	50:56	-	2.06
152	Hepta	PCB-190	1.00	2.40e+06	1.17	y	51:06	-	2.70
153	Hepta	PCB-189	1.00	2.46e+06	1.03	y	52:29	-	2.01
154	Octa	PCB-202	1.00	1.50e+06	0.82	y	48:17	-	1.40
155	Octa	PCB-201	1.00	1.56e+06	0.91	y	48:46	-	1.45
156	Octa	PCB-204	1.00	1.41e+06	0.84	y	48:56	-	1.32
157	Octa	PCB-197	1.00	1.62e+06	0.91	y	49:14	-	1.51
158	Octa	PCB-200	1.00	1.49e+06	0.91	y	50:08	-	1.39
159	Octa	PCB-198	1.00	1.09e+06	0.90	y	51:33	-	1.02
160	Octa	PCB-199	1.00	1.05e+06	0.91	y	51:40	-	0.98
161	Octa	PCB-196/203	2.00	2.26e+06	0.87	y	51:56	-	1.06
162	Octa	PCB-195	1.00	1.56e+06	0.89	y	53:08	-	1.04
163	Octa	PCB-194	1.00	1.78e+06	0.92	y	54:00	-	1.18

164	Octa	PCB-205	1.00	2.26e+06	0.91	y	54:16	-	1.51
165	Nona	PCB-208	1.00	2.91e+06	1.24	y	53:17	-	1.25
166	Nona	PCB-207	1.00	2.91e+06	1.32	y	53:35	-	1.25
167	Nona	PCB-206	1.00	1.88e+06	1.30	y	55:35	-	1.02
168	Deca	PCB-209	1.00	2.58e+06	1.17	y	56:58	-	1.64
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.37
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.11
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.57

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.08
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.34
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.55
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.21
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.08
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.30
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.81
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.24
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.24
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.19
182	Tot ╗	Total Deca-PCB	1.00	2.58e+06	1.17	y	56:58	-	1.64
183	Mono╗	13C-PCB-1	100.00	2.51e+08	3.24	y	16:05	-	0.73
184	Mono╗	13C-PCB-3	100.00	2.76e+08	3.23	y	18:42	-	0.80
185	Di-IS	13C-PCB-4	100.00	1.89e+08	1.58	y	20:03	-	0.55
186	Di-IS	13C-PCB-9	100.00	3.12e+08	1.56	y	21:50	-	0.91
187	Di-IS	13C-PCB-11	100.00	3.24e+08	1.55	y	25:14	-	0.94
188	Tri-╗	13C-PCB-19	100.00	1.50e+08	1.07	y	24:12	-	0.44
189	Tri-╗	13C-PCB-32	100.00	2.30e+08	1.07	y	27:08	-	0.67
190	Tri-╗	13C-PCB-28	100.00	2.62e+08	1.02	y	29:06	-	0.89
191	Tri-╗	13C-PCB-37	100.00	2.73e+08	1.05	y	32:58	-	0.92
192	Tetr╗	13C-PCB-54	100.00	2.71e+08	0.79	y	27:57	-	0.95
193	Tetr╗	13C-PCB-52	100.00	2.17e+08	0.81	y	31:31	-	0.76
194	Tetr╗	13C-PCB-47	100.00	2.25e+08	0.80	y	32:01	-	0.79
195	Tetr╗	13C-PCB-70	100.00	2.84e+08	0.82	y	35:32	-	1.00
196	Tetr╗	13C-PCB-80	100.00	2.87e+08	0.81	y	35:58	-	1.01
197	Tetr╗	13C-PCB-81	100.00	2.88e+08	0.81	y	39:03	-	1.02
198	Tetr╗	13C-PCB-77	100.00	2.76e+08	0.82	y	39:39	-	0.97
199	Pent╗	13C-PCB-104	100.00	1.47e+08	1.62	y	32:40	-	1.03
200	Pent╗	13C-PCB-95	100.00	1.16e+08	1.62	y	35:50	-	0.82
201	Pent╗	13C-PCB-101	100.00	1.16e+08	1.60	y	37:31	-	0.82
202	Pent╗	13C-PCB-97	100.00	1.01e+08	1.62	y	38:49	-	0.71
203	Pent╗	13C-PCB-123	100.00	1.35e+08	1.60	y	41:23	-	0.95
204	Pent╗	13C-PCB-118	100.00	1.40e+08	1.63	y	41:34	-	0.99
205	Pent╗	13C-PCB-114	100.00	2.21e+08	1.57	y	42:13	-	1.22
206	Pent╗	13C-PCB-105	100.00	2.20e+08	1.55	y	43:05	-	1.21
207	Pent╗	13C-PCB-127	100.00	2.35e+08	1.56	y	43:25	-	1.29
208	Pent╗	13C-PCB-126	100.00	2.18e+08	1.57	y	45:19	-	1.20
209	Hexa╗	13C-PCB-155	100.00	1.13e+08	1.27	y	37:03	-	0.80
210	Hexa╗	13C-PCB-153	100.00	2.42e+08	1.26	y	43:14	-	1.33
211	Hexa╗	13C-PCB-141	100.00	2.06e+08	1.28	y	43:58	-	1.13
212	Hexa	13C-PCB-138	100.00	2.12e+08	1.28	y	44:48	-	1.17
213	Hexa╗	13C-PCB-159	100.00	2.52e+08	1.28	y	46:06	-	1.39
214	Hexa╗	13C-PCB-167	100.00	2.57e+08	1.27	y	46:47	-	1.42
215	Hexa╗	13C-PCB-156	100.00	2.52e+08	1.28	y	48:04	-	1.38
216	Hexa╗	13C-PCB-157	100.00	2.53e+08	1.28	y	48:20	-	1.39
217	Hexa╗	13C-PCB-169	100.00	2.48e+08	1.28	y	50:32	-	1.36
218	Hept╗	13C-PCB-188	100.00	1.43e+08	0.46	y	42:51	-	1.37
219	Hept╗	13C-PCB-180	100.00	1.01e+08	0.47	y	49:21	-	0.97
220	Hept╗	13C-PCB-170	100.00	8.90e+07	0.47	y	50:55	-	0.85
221	Hept╗	13C-PCB-189	100.00	1.22e+08	0.46	y	52:28	-	1.17
222	Octa╗	13C-PCB-202	100.00	1.07e+08	0.90	y	48:16	-	1.03

223	Octa¶	13C-PCB-194	100.00	1.50e+08	0.88	y	53:59	-	0.73
224	Nona¶	13C-PCB-208	100.00	2.33e+08	0.79	y	53:16	-	1.14
225	Nona¶	13C-PCB-206	100.00	1.83e+08	0.78	y	55:34	-	0.90
226	Deca¶	13C-PCB-209	100.00	1.58e+08	1.23	y	56:57	-	0.77
227	DI-RS	13C-PCB-15	100.00	3.45e+08	1.54	y	25:56	-	1.00
228	Tri-¶	13C-PCB-31	100.00	2.96e+08	1.02	y	29:00	-	1.00
229	Tetr¶	13C-PCB-60	100.00	2.84e+08	0.80	y	36:46	-	1.00
230	Penta	13C-PCB-111	100.00	1.42e+08	1.61	y	39:15	-	1.00
231	Hexa¶	13C-PCB-128	100.00	1.82e+08	1.28	y	46:22	-	1.00
232	Hept¶	13C-PCB-182	100.00	1.04e+08	0.47	y	46:11	-	1.00

233	Octa7	13C-PCB-205	100.00	2.04e+08	0.89 y	54:16	-	1.00
234	CRS	13C-PCB-79	100.00	2.94e+08	0.81 y	37:50	-	1.04
235	CRS	13C-PCB-178	100.00	9.53e+07	0.47 y	45:39	-	0.91
236	PS	13C-PCB-79	100.00	2.94e+08	0.81 y	37:50	-	1.02
237	PS	13C-PCB-178	100.00	9.53e+07	0.47 y	45:39	-	0.95

Filename: 170313E2 S: 3 Acquired: 13-MAR-17 06:16:22
Run: 170313E2 Analyte: ICal: PCBVG8-3-13-17 Results:
Sample text: ST170313E2-3 PCB CS2 17C0310

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	2.50	9.13e+06	3.10 y	16:07	-	1.43
2	Mono	PCB-2	2.50	9.36e+06	3.14 y	18:31	-	1.33
3	Mono	PCB-3	2.50	9.65e+06	3.09 y	18:45	-	1.37
4	Di	PCB-4/10	5.00	1.35e+07	1.54 y	20:07	-	1.41
5	Di	PCB-7/9	5.00	1.68e+07	1.57 y	21:54	-	1.07
6	Di	PCB-6	2.50	8.39e+06	1.57 y	22:34	-	1.06
7	Di	PCB-5/8	5.00	1.74e+07	1.51 y	22:58	-	1.11
8	Di	PCB-14	2.50	1.01e+07	1.58 y	24:05	-	1.22
9	Di	PCB-11	2.50	8.84e+06	1.55 y	25:16	-	1.07
10	Di	PCB-12/13	5.00	1.76e+07	1.56 y	25:40	-	1.07
11	Di	PCB-15	2.50	1.03e+07	1.53 y	25:59	-	1.25
12	Tri	PCB-19	2.50	5.89e+06	1.07 y	24:15	-	1.56
13	Tri	PCB-30	2.50	9.83e+06	1.06 y	25:09	-	2.60
14	Tri	PCB-18	2.50	6.56e+06	1.06 y	25:54	-	1.15
15	Tri	PCB-17	2.50	7.05e+06	1.07 y	26:04	-	1.24
16	Tri	PCB-24/27	5.00	1.88e+07	1.05 y	26:39	-	1.65
17	Tri	PCB-16/32	5.00	1.58e+07	1.07 y	27:09	-	1.39
18	Tri	PCB-34	2.50	7.34e+06	1.03 y	27:57	-	0.95
19	Tri	PCB-23	2.50	7.16e+06	1.05 y	28:03	-	0.93
20	Tri	PCB-29	2.50	7.34e+06	0.99 y	28:18	-	0.95
21	Tri	PCB-26	2.50	7.00e+06	1.01 y	28:30	-	0.91
22	Tri	PCB-25	2.50	6.73e+06	1.00 y	28:41	-	0.87
23	Tri	PCB-31	2.50	7.95e+06	1.00 y	29:01	-	1.03
24	Tri	PCB-28	2.50	7.02e+06	1.00 y	29:08	-	0.91
25	Tri	PCB-20/21/33	7.50	1.94e+07	0.98 y	29:44	-	0.84
26	Tri	PCB-22	2.50	7.00e+06	0.99 y	30:11	-	0.91
27	Tri	PCB-36	2.50	6.42e+06	0.98 y	30:49	-	0.99
28	Tri	PCB-39	2.50	7.15e+06	1.05 y	31:17	-	1.10
29	Tri	PCB-38	2.50	6.31e+06	1.01 y	32:03	-	0.97
30	Tri	PCB-35	2.50	6.15e+06	1.05 y	32:35	-	0.95
31	Tri	PCB-37	2.50	7.31e+06	0.98 y	33:01	-	1.12
32	Tetra	PCB-54	2.50	8.49e+06	0.79 y	28:00	-	1.25
33	Tetra	PCB-50	2.50	6.69e+06	0.79 y	29:11	-	0.98
34	Tetra	PCB-53	2.50	6.72e+06	0.76 y	29:50	-	1.24
35	Tetra	PCB-51	2.50	7.32e+06	0.81 y	30:10	-	1.35
36	Tetra	PCB-45	2.50	5.92e+06	0.79 y	30:36	-	1.09
37	Tetra	PCB-46	2.50	5.77e+06	0.77 y	31:05	-	1.06
38	Tetra	PCB-52/69	5.00	1.52e+07	0.77 y	31:34	-	1.40
39	Tetra	PCB-73	2.50	8.69e+06	0.77 y	31:41	-	1.60
40	Tetra	PCB-43/49	5.00	1.37e+07	0.79 y	31:51	-	1.26
41	Tetra	PCB-47	2.50	7.39e+06	0.79 y	32:03	-	1.31

42	Tetra	PCB-48/75	5.00	1.61e+07	0.80 y	32:10	-	1.43
43	Tetra	PCB-65	2.50	7.77e+06	0.77 y	32:26	-	1.38
44	Tetra	PCB-62	2.50	8.48e+06	0.77 y	32:32	-	1.50
45	Tetra	PCB-44	2.50	5.64e+06	0.77 y	32:51	-	1.00
46	Tetra	PCB-42/59	5.00	1.60e+07	0.78 y	33:04	-	1.42
47	Tetra	PCB-41/64/71/72	10.00	3.31e+07	0.78 y	33:39	-	1.47
48	Tetra	PCB-68	2.50	9.60e+06	0.77 y	33:55	-	1.70
49	Tetra	PCB-40	2.50	5.31e+06	0.81 y	34:08	-	0.94
50	Tetra	PCB-57	2.50	9.17e+06	0.78 y	34:30	-	1.29
51	Tetra	PCB-67	2.50	9.26e+06	0.80 y	34:48	-	1.30
52	Tetra	PCB-58	2.50	9.10e+06	0.79 y	34:56	-	1.27

53	Tetra	PCB-63	2.50	9.61e+06	0.80	y	35:05	-	1.35
54	Tetra	PCB-74	2.50	9.86e+06	0.80	y	35:22	-	1.38
55	Tetra	PCB-61/70	5.00	1.83e+07	0.80	y	35:32	-	1.28
56	Tetra	PCB-76/66	5.00	1.94e+07	0.79	y	35:45	-	1.36
57	Tetra	PCB-80	2.50	1.10e+07	0.83	y	35:59	-	1.56
58	Tetra	PCB-55	2.50	1.03e+07	0.80	y	36:18	-	1.45
59	Tetra	PCB-56/60	5.00	1.89e+07	0.79	y	36:48	-	1.34
60	Tetra	PCB-79	2.50	1.02e+07	0.82	y	37:53	-	1.45
61	Tetra	PCB-78	2.50	9.68e+06	0.79	y	38:34	-	1.35
62	Tetra	PCB-81	2.50	1.04e+07	0.79	y	39:06	-	1.45
63	Tetra	PCB-77	2.50	1.02e+07	0.78	y	39:42	-	1.53
64	Penta	PCB-104	2.50	5.81e+06	1.70	y	32:41	-	1.52
65	Penta	PCB-96	2.50	5.12e+06	1.64	y	33:58	-	1.34
66	Penta	PCB-103	2.50	4.79e+06	1.58	y	34:31	-	1.25
67	Penta	PCB-100	2.50	4.77e+06	1.69	y	34:51	-	1.25
68	Penta	PCB-94	2.50	3.80e+06	1.64	y	35:19	-	1.27
69	Penta	PCB-95/98/102	7.50	1.35e+07	1.62	y	35:49	-	1.50
70	Penta	PCB-93	2.50	3.53e+06	1.68	y	35:57	-	1.18
71	Penta	PCB-88/91	5.00	7.95e+06	1.61	y	36:14	-	1.33
72	Penta	PCB-121	2.50	5.93e+06	1.69	y	36:21	-	1.98
73	Penta	PCB-84/92	5.00	8.22e+06	1.67	y	37:10	-	1.35
74	Penta	PCB-89	2.50	3.84e+06	1.63	y	37:21	-	1.27
75	Penta	PCB-90/101	5.00	9.14e+06	1.63	y	37:32	-	1.51
76	Penta	PCB-113	2.50	5.48e+06	1.65	y	37:47	-	1.81
77	Penta	PCB-99	2.50	4.58e+06	1.64	y	37:53	-	1.51
78	Penta	PCB-119	2.50	5.98e+06	1.56	y	38:20	-	2.26
79	Penta	PCB-108/112	5.00	9.19e+06	1.59	y	38:29	-	1.74
80	Penta	PCB-83	2.50	5.54e+06	1.65	y	38:39	-	2.10
81	Penta	PCB-97	2.50	4.30e+06	1.53	y	38:51	-	1.63
82	Penta	PCB-86	2.50	3.10e+06	1.56	y	39:00	-	1.17
83	Penta	PCB-87/117/125	7.50	1.55e+07	1.58	y	39:07	-	1.96
84	Penta	PCB-111/115	5.00	1.24e+07	1.59	y	39:17	-	2.34
85	Penta	PCB-85/116	5.00	8.65e+06	1.59	y	39:24	-	1.64
86	Penta	PCB-120	2.50	6.63e+06	1.59	y	39:40	-	2.51
87	Penta	PCB-110	2.50	5.27e+06	1.58	y	39:48	-	1.99
88	Penta	PCB-82	2.50	3.45e+06	1.52	y	40:25	-	0.99
89	Penta	PCB-124	2.50	5.66e+06	1.56	y	41:06	-	1.62
90	Penta	PCB-107/109	5.00	1.19e+07	1.61	y	41:14	-	1.71
91	Penta	PCB-123	2.50	5.75e+06	1.61	y	41:24	-	1.65
92	Penta	PCB-106/118	5.00	1.20e+07	1.59	y	41:37	-	1.63
93	Penta	PCB-114	2.50	7.19e+06	1.49	y	42:14	-	1.26
94	Penta	PCB-122	2.50	6.30e+06	1.58	y	42:23	-	1.10
95	Penta	PCB-105	2.50	7.16e+06	1.51	y	43:06	-	1.28
96	Penta	PCB-127	2.50	6.42e+06	1.57	y	43:27	-	1.06
97	Penta	PCB-126	2.50	6.69e+06	1.59	y	45:21	-	1.19
98	Hexa	PCB-155	2.50	4.04e+06	1.28	y	37:06	-	1.37
99	Hexa	PCB-150	2.50	3.78e+06	1.24	y	38:21	-	1.28
100	Hexa	PCB-152	2.50	3.80e+06	1.21	y	38:50	-	1.29
101	Hexa	PCB-145	2.50	3.52e+06	1.33	y	39:17	-	1.20
102	Hexa	PCB-136	2.50	3.97e+06	1.29	y	39:36	-	1.35

103	Hexa	PCB-148	2.50	2.59e+06	1.27 y	39:43	-	0.88
104	Hexa	PCB-154	2.50	3.02e+06	1.28 y	40:12	-	1.03
105	Hexa	PCB-151	2.50	2.77e+06	1.38 y	40:50	-	0.94
106	Hexa	PCB-135	2.50	2.57e+06	1.17 y	41:03	-	0.87
107	Hexa	PCB-144	2.50	3.01e+06	1.22 y	41:09	-	1.02
108	Hexa	PCB-147	2.50	2.48e+06	1.21 y	41:17	-	0.84
109	Hexa	PCB-139/149	5.00	5.76e+06	1.26 y	41:33	-	0.98
110	Hexa	PCB-140	2.50	2.69e+06	1.28 y	41:44	-	0.91
111	Hexa	PCB-134/143	5.00	1.26e+07	1.26 y	42:10	-	1.00
112	Hexa	PCB-131/133	5.00	1.24e+07	1.27 y	42:28	-	0.98
113	Hexa	PCB-142	2.50	6.19e+06	1.29 y	42:38	-	0.98

114	Hexa	PCB-146/165	5.00	1.53e+07	1.28 y	42:51	-	1.21
115	Hexa	PCB-132/161	5.00	1.53e+07	1.25 y	43:05	-	1.21
116	Hexa	PCB-153	2.50	7.84e+06	1.23 y	43:16	-	1.24
117	Hexa	PCB-168	2.50	9.61e+06	1.24 y	43:28	-	1.52
118	Hexa	PCB-141	2.50	7.12e+06	1.27 y	44:00	-	1.34
119	Hexa	PCB-137	2.50	6.81e+06	1.22 y	44:23	-	1.28
120	Hexa	PCB-130	2.50	6.30e+06	1.25 y	44:30	-	1.18
121	Hexa	PCB-138/163/164	7.50	2.46e+07	1.26 y	44:52	-	1.48
122	Hexa	PCB-158/160	5.00	1.82e+07	1.26 y	45:06	-	1.64
123	Hexa	PCB-129	2.50	6.08e+06	1.25 y	45:21	-	1.10
124	Hexa	PCB-166	2.50	8.95e+06	1.26 y	45:47	-	1.36
125	Hexa	PCB-159	2.50	9.75e+06	1.24 y	46:08	-	1.48
126	Hexa	PCB-128/162	5.00	1.60e+07	1.24 y	46:24	-	1.22
127	Hexa	PCB-167	2.50	9.42e+06	1.24 y	46:49	-	1.39
128	Hexa	PCB-156	2.50	9.45e+06	1.26 y	48:06	-	1.43
129	Hexa	PCB-157	2.50	9.42e+06	1.28 y	48:22	-	1.42
130	Hexa	PCB-169	2.50	8.54e+06	1.30 y	50:33	-	1.32
131	Hepta	PCB-188	2.50	6.97e+06	1.07 y	42:54	-	1.88
132	Hepta	PCB-184	2.50	6.44e+06	1.07 y	43:21	-	1.73
133	Hepta	PCB-179	2.50	6.46e+06	1.09 y	44:07	-	1.74
134	Hepta	PCB-176	2.50	6.95e+06	1.07 y	44:35	-	1.87
135	Hepta	PCB-186	2.50	6.86e+06	1.07 y	45:11	-	1.85
136	Hepta	PCB-178	2.50	4.98e+06	1.08 y	45:41	-	1.34
137	Hepta	PCB-175	2.50	4.84e+06	1.05 y	46:02	-	1.30
138	Hepta	PCB-182/187	5.00	1.08e+07	1.08 y	46:13	-	1.46
139	Hepta	PCB-183	2.50	5.99e+06	1.07 y	46:31	-	1.61
140	Hepta	PCB-185	2.50	4.96e+06	1.09 y	47:10	-	1.87
141	Hepta	PCB-174	2.50	4.84e+06	1.04 y	47:32	-	1.83
142	Hepta	PCB-181	2.50	4.85e+06	1.07 y	47:39	-	1.83
143	Hepta	PCB-177	2.50	4.50e+06	1.09 y	47:49	-	1.70
144	Hepta	PCB-171	2.50	5.02e+06	1.02 y	48:06	-	1.90
145	Hepta	PCB-173	2.50	4.13e+06	1.01 y	48:31	-	1.56
146	Hepta	PCB-172	2.50	4.82e+06	1.05 y	48:59	-	1.82
147	Hepta	PCB-192	2.50	6.20e+06	1.16 y	49:11	-	2.34
148	Hepta	PCB-180	2.50	4.88e+06	1.06 y	49:23	-	1.85
149	Hepta	PCB-193	2.50	6.37e+06	1.11 y	49:35	-	2.41
150	Hepta	PCB-191	2.50	6.68e+06	1.06 y	49:51	-	2.53
151	Hepta	PCB-170	2.50	4.72e+06	1.06 y	50:57	-	2.04
152	Hepta	PCB-190	2.50	6.53e+06	1.05 y	51:08	-	2.82
153	Hepta	PCB-189	2.50	6.51e+06	1.07 y	52:30	-	2.03
154	Octa	PCB-202	2.50	3.53e+06	0.93 y	48:19	-	1.31
155	Octa	PCB-201	2.50	3.67e+06	0.86 y	48:48	-	1.36
156	Octa	PCB-204	2.50	3.54e+06	0.93 y	48:57	-	1.32
157	Octa	PCB-197	2.50	4.11e+06	0.90 y	49:15	-	1.53
158	Octa	PCB-200	2.50	3.74e+06	0.88 y	50:10	-	1.39
159	Octa	PCB-198	2.50	2.77e+06	0.90 y	51:34	-	1.03
160	Octa	PCB-199	2.50	2.55e+06	0.94 y	51:41	-	0.95
161	Octa	PCB-196/203	5.00	5.84e+06	0.91 y	51:57	-	1.09
162	Octa	PCB-195	2.50	4.00e+06	0.94 y	53:09	-	1.05
163	Octa	PCB-194	2.50	4.36e+06	0.85 y	54:01	-	1.14

164	Octa	PCB-205	2.50	5.71e+06	0.90	y	54:17	-	1.50
165	Nona	PCB-208	2.50	7.27e+06	1.35	y	53:18	-	1.19
166	Nona	PCB-207	2.50	7.41e+06	1.31	y	53:36	-	1.21
167	Nona	PCB-206	2.50	4.67e+06	1.40	y	55:36	-	1.00
168	Deca	PCB-209	2.50	6.67e+06	1.19	y	56:57	-	1.63
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.38
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.12
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.58

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	0.95
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.31
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.51
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.18
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.07
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.28
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.79
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.23
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.23
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.15
182	Tot ╗	Total Deca-PCB	2.50	6.67e+06	1.19	y	56:57	-	1.63
183	Mono╗	13C-PCB-1	100.00	2.56e+08	3.24	y	16:06	-	0.72
184	Mono╗	13C-PCB-3	100.00	2.81e+08	3.24	y	18:43	-	0.79
185	Di-IS	13C-PCB-4	100.00	1.91e+08	1.59	y	20:04	-	0.54
186	Di-IS	13C-PCB-9	100.00	3.15e+08	1.55	y	21:52	-	0.89
187	Di-IS	13C-PCB-11	100.00	3.30e+08	1.55	y	25:15	-	0.93
188	Tri-╗	13C-PCB-19	100.00	1.51e+08	1.07	y	24:13	-	0.43
189	Tri-╗	13C-PCB-32	100.00	2.28e+08	1.08	y	27:09	-	0.64
190	Tri-╗	13C-PCB-28	100.00	3.09e+08	1.03	y	29:07	-	1.17
191	Tri-╗	13C-PCB-37	100.00	2.60e+08	1.04	y	33:00	-	0.99
192	Tetr╗	13C-PCB-54	100.00	2.72e+08	0.80	y	27:59	-	0.97
193	Tetr╗	13C-PCB-52	100.00	2.17e+08	0.81	y	31:32	-	0.77
194	Tetr╗	13C-PCB-47	100.00	2.26e+08	0.80	y	32:02	-	0.80
195	Tetr╗	13C-PCB-70	100.00	2.85e+08	0.82	y	35:33	-	1.01
196	Tetr╗	13C-PCB-80	100.00	2.83e+08	0.83	y	35:59	-	1.00
197	Tetr╗	13C-PCB-81	100.00	2.87e+08	0.81	y	39:04	-	1.02
198	Tetr╗	13C-PCB-77	100.00	2.68e+08	0.82	y	39:41	-	0.95
199	Pent╗	13C-PCB-104	100.00	1.53e+08	1.62	y	32:41	-	1.03
200	Pent╗	13C-PCB-95	100.00	1.20e+08	1.63	y	35:51	-	0.81
201	Pent╗	13C-PCB-101	100.00	1.21e+08	1.63	y	37:32	-	0.82
202	Pent╗	13C-PCB-97	100.00	1.06e+08	1.64	y	38:50	-	0.71
203	Pent╗	13C-PCB-123	100.00	1.39e+08	1.64	y	41:24	-	0.94
204	Pent╗	13C-PCB-118	100.00	1.47e+08	1.62	y	41:34	-	0.99
205	Pent╗	13C-PCB-114	100.00	2.29e+08	1.57	y	42:14	-	1.20
206	Pent╗	13C-PCB-105	100.00	2.24e+08	1.56	y	43:05	-	1.17
207	Pent╗	13C-PCB-127	100.00	2.41e+08	1.58	y	43:26	-	1.26
208	Pent╗	13C-PCB-126	100.00	2.25e+08	1.55	y	45:19	-	1.18
209	Hexa╗	13C-PCB-155	100.00	1.18e+08	1.29	y	37:05	-	0.79
210	Hexa╗	13C-PCB-153	100.00	2.52e+08	1.27	y	43:15	-	1.32
211	Hexa╗	13C-PCB-141	100.00	2.13e+08	1.29	y	43:59	-	1.11
212	Hexa	13C-PCB-138	100.00	2.22e+08	1.28	y	44:49	-	1.16
213	Hexa╗	13C-PCB-159	100.00	2.63e+08	1.30	y	46:07	-	1.38
214	Hexa╗	13C-PCB-167	100.00	2.70e+08	1.29	y	46:47	-	1.41
215	Hexa╗	13C-PCB-156	100.00	2.64e+08	1.28	y	48:05	-	1.38
216	Hexa╗	13C-PCB-157	100.00	2.65e+08	1.28	y	48:21	-	1.39
217	Hexa╗	13C-PCB-169	100.00	2.59e+08	1.26	y	50:33	-	1.35
218	Hept╗	13C-PCB-188	100.00	1.49e+08	0.47	y	42:53	-	1.34
219	Hept╗	13C-PCB-180	100.00	1.06e+08	0.47	y	49:22	-	0.96
220	Hept╗	13C-PCB-170	100.00	9.26e+07	0.46	y	50:56	-	0.84
221	Hept╗	13C-PCB-189	100.00	1.29e+08	0.46	y	52:29	-	1.16
222	Octa╗	13C-PCB-202	100.00	1.08e+08	0.92	y	48:17	-	0.97

223	Octa¶	13C-PCB-194	100.00	1.53e+08	0.89 y	54:00	-	0.73
224	Nona¶	13C-PCB-208	100.00	2.44e+08	0.78 y	53:17	-	1.17
225	Nona¶	13C-PCB-206	100.00	1.86e+08	0.78 y	55:35	-	0.89
226	Deca¶	13C-PCB-209	100.00	1.63e+08	1.23 y	56:56	-	0.78
227	DI-RS	13C-PCB-15	100.00	3.55e+08	1.54 y	25:58	-	1.00
228	Tri-¶	13C-PCB-31	100.00	2.63e+08	1.02 y	29:00	-	1.00
229	Tetr¶	13C-PCB-60	100.00	2.82e+08	0.80 y	36:47	-	1.00
230	Penta	13C-PCB-111	100.00	1.48e+08	1.63 y	39:16	-	1.00
231	Hexa¶	13C-PCB-128	100.00	1.91e+08	1.28 y	46:23	-	1.00
232	Hept¶	13C-PCB-182	100.00	1.11e+08	0.46 y	46:12	-	1.00

233	Octa¶	13C-PCB-205	100.00	2.08e+08	0.89 y	54:16	-	1.00
234	CRS	13C-PCB-79	100.00	2.95e+08	0.82 y	37:51	-	1.05
235	CRS	13C-PCB-178	100.00	1.02e+08	0.47 y	45:40	-	0.92
236	PS	13C-PCB-79	100.00	2.95e+08	0.82 y	37:51	-	1.03
237	PS	13C-PCB-178	100.00	1.02e+08	0.47 y	45:40	-	0.96

Filename: 170313E2 S: 4 Acquired: 13-MAR-17 07:21:16
Run: 170313E2 Analyte: ICal: PCBVG8-3-13-17 Results:
Sample text: ST170313E2-4 PCB CS3 17C0311

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	50.00	1.72e+08	3.07 y	16:06	-	1.32
2	Mono	PCB-2	50.00	1.86e+08	3.10 y	18:30	-	1.27
3	Mono	PCB-3	50.00	1.87e+08	3.09 y	18:44	-	1.28
4	Di	PCB-4/10	100.00	2.62e+08	1.55 y	20:06	-	1.28
5	Di	PCB-7/9	100.00	3.33e+08	1.53 y	21:54	-	0.97
6	Di	PCB-6	50.00	1.65e+08	1.55 y	22:33	-	0.95
7	Di	PCB-5/8	100.00	3.41e+08	1.55 y	22:58	-	0.99
8	Di	PCB-14	50.00	2.02e+08	1.54 y	24:04	-	1.12
9	Di	PCB-11	50.00	1.76e+08	1.54 y	25:16	-	0.98
10	Di	PCB-12/13	100.00	3.52e+08	1.55 y	25:39	-	0.98
11	Di	PCB-15	50.00	2.02e+08	1.54 y	25:58	-	1.13
12	Tri	PCB-19	50.00	1.14e+08	1.05 y	24:14	-	1.45
13	Tri	PCB-30	50.00	1.79e+08	1.05 y	25:08	-	2.28
14	Tri	PCB-18	50.00	1.27e+08	1.04 y	25:53	-	1.09
15	Tri	PCB-17	50.00	1.40e+08	1.05 y	26:04	-	1.20
16	Tri	PCB-24/27	100.00	3.67e+08	1.06 y	26:38	-	1.57
17	Tri	PCB-16/32	100.00	3.03e+08	1.04 y	27:09	-	1.30
18	Tri	PCB-34	50.00	1.29e+08	0.99 y	27:57	-	0.88
19	Tri	PCB-23	50.00	1.31e+08	1.00 y	28:02	-	0.89
20	Tri	PCB-29	50.00	1.30e+08	0.98 y	28:17	-	0.89
21	Tri	PCB-26	50.00	1.33e+08	0.99 y	28:31	-	0.91
22	Tri	PCB-25	50.00	1.18e+08	0.99 y	28:40	-	0.80
23	Tri	PCB-31	50.00	1.36e+08	0.97 y	29:01	-	0.92
24	Tri	PCB-28	50.00	1.36e+08	1.00 y	29:07	-	0.92
25	Tri	PCB-20/21/33	150.00	3.66e+08	0.98 y	29:45	-	0.83
26	Tri	PCB-22	50.00	1.21e+08	0.97 y	30:11	-	0.82
27	Tri	PCB-36	50.00	1.24e+08	0.99 y	30:48	-	0.92
28	Tri	PCB-39	50.00	1.29e+08	0.99 y	31:17	-	0.96
29	Tri	PCB-38	50.00	1.20e+08	0.99 y	32:03	-	0.89
30	Tri	PCB-35	50.00	1.12e+08	0.99 y	32:34	-	0.83
31	Tri	PCB-37	50.00	1.30e+08	0.98 y	33:00	-	0.97
32	Tetra	PCB-54	50.00	1.58e+08	0.77 y	28:00	-	1.07
33	Tetra	PCB-50	50.00	1.31e+08	0.79 y	29:10	-	0.89
34	Tetra	PCB-53	50.00	1.30e+08	0.79 y	29:49	-	1.11
35	Tetra	PCB-51	50.00	1.31e+08	0.78 y	30:10	-	1.12
36	Tetra	PCB-45	50.00	1.19e+08	0.78 y	30:36	-	1.03
37	Tetra	PCB-46	50.00	1.05e+08	0.79 y	31:05	-	0.90
38	Tetra	PCB-52/69	100.00	3.13e+08	0.78 y	31:34	-	1.34
39	Tetra	PCB-73	50.00	1.59e+08	0.80 y	31:41	-	1.36
40	Tetra	PCB-43/49	100.00	2.66e+08	0.77 y	31:51	-	1.14
41	Tetra	PCB-47	50.00	1.34e+08	0.77 y	32:03	-	1.05

42	Tetra	PCB-48/75	100.00	3.40e+08	0.79	y	32:10	-	1.33
43	Tetra	PCB-65	50.00	1.59e+08	0.78	y	32:26	-	1.25
44	Tetra	PCB-62	50.00	1.53e+08	0.79	y	32:32	-	1.20
45	Tetra	PCB-44	50.00	1.10e+08	0.79	y	32:51	-	0.87
46	Tetra	PCB-42/59	100.00	2.99e+08	0.79	y	33:04	-	1.18
47	Tetra	PCB-41/64/71/72	200.00	6.80e+08	0.78	y	33:40	-	1.33
48	Tetra	PCB-68	50.00	1.87e+08	0.78	y	33:55	-	1.47
49	Tetra	PCB-40	50.00	1.02e+08	0.78	y	34:08	-	0.80
50	Tetra	PCB-57	50.00	1.79e+08	0.78	y	34:30	-	1.20
51	Tetra	PCB-67	50.00	1.73e+08	0.78	y	34:48	-	1.16
52	Tetra	PCB-58	50.00	1.87e+08	0.79	y	34:55	-	1.25

53	Tetra	PCB-63	50.00	1.93e+08	0.78 y	35:04	-	1.29
54	Tetra	PCB-74	50.00	1.93e+08	0.78 y	35:22	-	1.29
55	Tetra	PCB-61/70	100.00	3.52e+08	0.79 y	35:32	-	1.18
56	Tetra	PCB-76/66	100.00	3.68e+08	0.79 y	35:45	-	1.23
57	Tetra	PCB-80	50.00	2.22e+08	0.80 y	36:00	-	1.41
58	Tetra	PCB-55	50.00	1.98e+08	0.78 y	36:18	-	1.26
59	Tetra	PCB-56/60	100.00	3.74e+08	0.79 y	36:48	-	1.19
60	Tetra	PCB-79	50.00	1.90e+08	0.80 y	37:52	-	1.21
61	Tetra	PCB-78	50.00	1.80e+08	0.78 y	38:34	-	1.19
62	Tetra	PCB-81	50.00	1.99e+08	0.80 y	39:06	-	1.32
63	Tetra	PCB-77	50.00	1.92e+08	0.81 y	39:41	-	1.33
64	Penta	PCB-104	50.00	1.16e+08	1.60 y	32:42	-	1.39
65	Penta	PCB-96	50.00	1.02e+08	1.59 y	33:57	-	1.23
66	Penta	PCB-103	50.00	9.57e+07	1.61 y	34:30	-	1.15
67	Penta	PCB-100	50.00	9.54e+07	1.60 y	34:51	-	1.14
68	Penta	PCB-94	50.00	8.00e+07	1.60 y	35:20	-	1.19
69	Penta	PCB-95/98/102	150.00	2.70e+08	1.61 y	35:48	-	1.34
70	Penta	PCB-93	50.00	7.22e+07	1.61 y	35:56	-	1.07
71	Penta	PCB-88/91	100.00	1.70e+08	1.62 y	36:14	-	1.27
72	Penta	PCB-121	50.00	1.13e+08	1.59 y	36:21	-	1.68
73	Penta	PCB-84/92	100.00	1.63e+08	1.62 y	37:10	-	1.22
74	Penta	PCB-89	50.00	7.85e+07	1.63 y	37:21	-	1.18
75	Penta	PCB-90/101	100.00	1.81e+08	1.61 y	37:32	-	1.36
76	Penta	PCB-113	50.00	1.05e+08	1.56 y	37:46	-	1.58
77	Penta	PCB-99	50.00	9.16e+07	1.67 y	37:52	-	1.37
78	Penta	PCB-119	50.00	1.24e+08	1.61 y	38:20	-	2.16
79	Penta	PCB-108/112	100.00	1.83e+08	1.62 y	38:30	-	1.59
80	Penta	PCB-83	50.00	1.09e+08	1.61 y	38:39	-	1.89
81	Penta	PCB-97	50.00	8.38e+07	1.60 y	38:51	-	1.46
82	Penta	PCB-86	50.00	6.91e+07	1.60 y	38:59	-	1.20
83	Penta	PCB-87/117/125	150.00	3.06e+08	1.61 y	39:07	-	1.77
84	Penta	PCB-111/115	100.00	2.33e+08	1.60 y	39:16	-	2.03
85	Penta	PCB-85/116	100.00	1.84e+08	1.62 y	39:24	-	1.60
86	Penta	PCB-120	50.00	1.24e+08	1.61 y	39:39	-	2.16
87	Penta	PCB-110	50.00	1.10e+08	1.63 y	39:47	-	1.91
88	Penta	PCB-82	50.00	6.58e+07	1.58 y	40:24	-	0.85
89	Penta	PCB-124	50.00	1.15e+08	1.59 y	41:05	-	1.49
90	Penta	PCB-107/109	100.00	2.25e+08	1.61 y	41:14	-	1.45
91	Penta	PCB-123	50.00	1.15e+08	1.60 y	41:25	-	1.48
92	Penta	PCB-106/118	100.00	2.40e+08	1.62 y	41:37	-	1.47
93	Penta	PCB-114	50.00	1.43e+08	1.52 y	42:15	-	1.16
94	Penta	PCB-122	50.00	1.20e+08	1.53 y	42:23	-	0.98
95	Penta	PCB-105	50.00	1.41e+08	1.54 y	43:06	-	1.14
96	Penta	PCB-127	50.00	1.29e+08	1.56 y	43:27	-	0.98
97	Penta	PCB-126	50.00	1.26e+08	1.55 y	45:21	-	1.06
98	Hexa	PCB-155	50.00	7.99e+07	1.26 y	37:05	-	1.24
99	Hexa	PCB-150	50.00	7.38e+07	1.28 y	38:21	-	1.15
100	Hexa	PCB-152	50.00	7.43e+07	1.26 y	38:50	-	1.15
101	Hexa	PCB-145	50.00	7.06e+07	1.30 y	39:16	-	1.10
102	Hexa	PCB-136	50.00	7.57e+07	1.42 y	39:35	-	1.18

103	Hexa	PCB-148	50.00	5.18e+07	1.12	y	39:42	-	0.80
104	Hexa	PCB-154	50.00	5.92e+07	1.29	y	40:12	-	0.92
105	Hexa	PCB-151	50.00	5.54e+07	1.28	y	40:50	-	0.86
106	Hexa	PCB-135	50.00	5.46e+07	1.27	y	41:03	-	0.85
107	Hexa	PCB-144	50.00	5.60e+07	1.28	y	41:10	-	0.87
108	Hexa	PCB-147	50.00	5.24e+07	1.29	y	41:17	-	0.81
109	Hexa	PCB-139/149	100.00	1.16e+08	1.27	y	41:33	-	0.90
110	Hexa	PCB-140	50.00	5.24e+07	1.26	y	41:44	-	0.81
111	Hexa	PCB-134/143	100.00	2.52e+08	1.26	y	42:10	-	0.92
112	Hexa	PCB-131/133	100.00	2.51e+08	1.25	y	42:28	-	0.91
113	Hexa	PCB-142	50.00	1.20e+08	1.25	y	42:37	-	0.87

114	Hexa	PCB-146/165	100.00	3.06e+08	1.25 y	42:51	-	1.12
115	Hexa	PCB-132/161	100.00	3.11e+08	1.25 y	43:06	-	1.13
116	Hexa	PCB-153	50.00	1.53e+08	1.25 y	43:16	-	1.12
117	Hexa	PCB-168	50.00	1.92e+08	1.25 y	43:29	-	1.40
118	Hexa	PCB-141	50.00	1.43e+08	1.23 y	44:00	-	1.23
119	Hexa	PCB-137	50.00	1.42e+08	1.25 y	44:23	-	1.23
120	Hexa	PCB-130	50.00	1.20e+08	1.27 y	44:29	-	1.04
121	Hexa	PCB-138/163/164	150.00	4.92e+08	1.25 y	44:52	-	1.37
122	Hexa	PCB-158/160	100.00	3.62e+08	1.26 y	45:06	-	1.51
123	Hexa	PCB-129	50.00	1.19e+08	1.23 y	45:20	-	0.99
124	Hexa	PCB-166	50.00	1.79e+08	1.24 y	45:48	-	1.24
125	Hexa	PCB-159	50.00	1.95e+08	1.24 y	46:07	-	1.35
126	Hexa	PCB-128/162	100.00	3.20e+08	1.24 y	46:25	-	1.10
127	Hexa	PCB-167	50.00	1.86e+08	1.24 y	46:49	-	1.25
128	Hexa	PCB-156	50.00	1.91e+08	1.24 y	48:06	-	1.31
129	Hexa	PCB-157	50.00	1.91e+08	1.25 y	48:21	-	1.30
130	Hexa	PCB-169	50.00	1.76e+08	1.27 y	50:33	-	1.22
131	Hepta	PCB-188	50.00	1.38e+08	1.06 y	42:54	-	1.68
132	Hepta	PCB-184	50.00	1.25e+08	1.07 y	43:21	-	1.53
133	Hepta	PCB-179	50.00	1.29e+08	1.07 y	44:07	-	1.58
134	Hepta	PCB-176	50.00	1.37e+08	1.08 y	44:35	-	1.67
135	Hepta	PCB-186	50.00	1.38e+08	1.07 y	45:12	-	1.68
136	Hepta	PCB-178	50.00	9.96e+07	1.07 y	45:42	-	1.21
137	Hepta	PCB-175	50.00	1.00e+08	1.07 y	46:02	-	1.22
138	Hepta	PCB-182/187	100.00	2.15e+08	1.07 y	46:13	-	1.31
139	Hepta	PCB-183	50.00	1.18e+08	1.07 y	46:32	-	1.44
140	Hepta	PCB-185	50.00	1.01e+08	1.07 y	47:11	-	1.73
141	Hepta	PCB-174	50.00	9.55e+07	1.06 y	47:33	-	1.64
142	Hepta	PCB-181	50.00	9.64e+07	1.08 y	47:39	-	1.65
143	Hepta	PCB-177	50.00	8.81e+07	1.07 y	47:49	-	1.51
144	Hepta	PCB-171	50.00	1.03e+08	1.08 y	48:06	-	1.77
145	Hepta	PCB-173	50.00	8.32e+07	1.07 y	48:32	-	1.43
146	Hepta	PCB-172	50.00	9.76e+07	1.07 y	48:59	-	1.67
147	Hepta	PCB-192	50.00	1.25e+08	1.07 y	49:11	-	2.14
148	Hepta	PCB-180	50.00	1.02e+08	1.08 y	49:24	-	1.75
149	Hepta	PCB-193	50.00	1.32e+08	1.06 y	49:35	-	2.27
150	Hepta	PCB-191	50.00	1.33e+08	1.07 y	49:51	-	2.29
151	Hepta	PCB-170	50.00	9.52e+07	1.06 y	50:56	-	1.92
152	Hepta	PCB-190	50.00	1.32e+08	1.07 y	51:08	-	2.66
153	Hepta	PCB-189	50.00	1.33e+08	1.06 y	52:30	-	1.90
154	Octa	PCB-202	50.00	6.81e+07	0.90 y	48:19	-	1.26
155	Octa	PCB-201	50.00	7.65e+07	0.89 y	48:48	-	1.41
156	Octa	PCB-204	50.00	7.19e+07	0.90 y	48:57	-	1.33
157	Octa	PCB-197	50.00	7.90e+07	0.90 y	49:16	-	1.46
158	Octa	PCB-200	50.00	7.26e+07	0.90 y	50:10	-	1.34
159	Octa	PCB-198	50.00	5.28e+07	0.90 y	51:33	-	0.98
160	Octa	PCB-199	50.00	5.36e+07	0.91 y	51:40	-	0.99
161	Octa	PCB-196/203	100.00	1.20e+08	0.90 y	51:57	-	1.11
162	Octa	PCB-195	50.00	7.64e+07	0.88 y	53:09	-	0.95
163	Octa	PCB-194	50.00	8.27e+07	0.87 y	54:02	-	1.02

164	Octa	PCB-205	50.00	1.07e+08	0.87	y	54:18	-	1.33
165	Nona	PCB-208	50.00	1.45e+08	1.31	y	53:18	-	1.08
166	Nona	PCB-207	50.00	1.47e+08	1.31	y	53:37	-	1.10
167	Nona	PCB-206	50.00	9.28e+07	1.33	y	55:37	-	0.92
168	Deca	PCB-209	50.00	1.30e+08	1.19	y	56:58	-	1.47
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.29
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.01
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.48

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	0.88
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.17
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.38
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.06
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.97
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.17
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.63
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.22
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.10
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.04
182	Tot ╗	Total Deca-PCB	50.00	1.30e+08	1.19	y	56:58	-	1.47
183	Mono╗	13C-PCB-1	100.00	2.61e+08	3.21	y	16:05	-	0.67
184	Mono╗	13C-PCB-3	100.00	2.93e+08	3.25	y	18:43	-	0.76
185	Di-IS	13C-PCB-4	100.00	2.05e+08	1.59	y	20:03	-	0.53
186	Di-IS	13C-PCB-9	100.00	3.45e+08	1.54	y	21:51	-	0.89
187	Di-IS	13C-PCB-11	100.00	3.59e+08	1.55	y	25:15	-	0.93
188	Tri-╗	13C-PCB-19	100.00	1.57e+08	1.08	y	24:13	-	0.41
189	Tri-╗	13C-PCB-32	100.00	2.34e+08	1.10	y	27:09	-	0.60
190	Tri-╗	13C-PCB-28	100.00	2.94e+08	1.02	y	29:07	-	1.03
191	Tri-╗	13C-PCB-37	100.00	2.70e+08	1.02	y	33:00	-	0.94
192	Tetr╗	13C-PCB-54	100.00	2.94e+08	0.80	y	27:59	-	0.93
193	Tetr╗	13C-PCB-52	100.00	2.33e+08	0.79	y	31:31	-	0.74
194	Tetr╗	13C-PCB-47	100.00	2.55e+08	0.80	y	32:02	-	0.80
195	Tetr╗	13C-PCB-70	100.00	2.99e+08	0.81	y	35:33	-	0.95
196	Tetr╗	13C-PCB-80	100.00	3.14e+08	0.82	y	35:58	-	0.99
197	Tetr╗	13C-PCB-81	100.00	3.02e+08	0.81	y	39:05	-	0.95
198	Tetr╗	13C-PCB-77	100.00	2.89e+08	0.82	y	39:40	-	0.91
199	Pent╗	13C-PCB-104	100.00	1.67e+08	1.59	y	32:41	-	1.01
200	Pent╗	13C-PCB-95	100.00	1.34e+08	1.59	y	35:50	-	0.81
201	Pent╗	13C-PCB-101	100.00	1.33e+08	1.64	y	37:32	-	0.80
202	Pent╗	13C-PCB-97	100.00	1.15e+08	1.64	y	38:50	-	0.69
203	Pent╗	13C-PCB-123	100.00	1.55e+08	1.63	y	41:23	-	0.93
204	Pent╗	13C-PCB-118	100.00	1.63e+08	1.61	y	41:35	-	0.98
205	Pent╗	13C-PCB-114	100.00	2.47e+08	1.57	y	42:14	-	1.17
206	Pent╗	13C-PCB-105	100.00	2.46e+08	1.57	y	43:06	-	1.17
207	Pent╗	13C-PCB-127	100.00	2.63e+08	1.54	y	43:26	-	1.25
208	Pent╗	13C-PCB-126	100.00	2.38e+08	1.54	y	45:20	-	1.13
209	Hexa╗	13C-PCB-155	100.00	1.29e+08	1.30	y	37:04	-	0.78
210	Hexa╗	13C-PCB-153	100.00	2.74e+08	1.27	y	43:15	-	1.30
211	Hexa╗	13C-PCB-141	100.00	2.31e+08	1.29	y	43:59	-	1.10
212	Hexa	13C-PCB-138	100.00	2.40e+08	1.27	y	44:50	-	1.14
213	Hexa╗	13C-PCB-159	100.00	2.90e+08	1.29	y	46:07	-	1.38
214	Hexa╗	13C-PCB-167	100.00	2.96e+08	1.28	y	46:48	-	1.40
215	Hexa╗	13C-PCB-156	100.00	2.92e+08	1.28	y	48:05	-	1.39
216	Hexa╗	13C-PCB-157	100.00	2.92e+08	1.27	y	48:21	-	1.39
217	Hexa╗	13C-PCB-169	100.00	2.88e+08	1.27	y	50:33	-	1.37
218	Hept╗	13C-PCB-188	100.00	1.64e+08	0.47	y	42:53	-	1.39
219	Hept╗	13C-PCB-180	100.00	1.17e+08	0.47	y	49:22	-	0.99
220	Hept╗	13C-PCB-170	100.00	9.94e+07	0.47	y	50:55	-	0.84
221	Hept╗	13C-PCB-189	100.00	1.40e+08	0.46	y	52:29	-	1.18
222	Octa╗	13C-PCB-202	100.00	1.08e+08	0.92	y	48:18	-	0.92

223	Octa¶	13C-PCB-194	100.00	1.61e+08	0.89 y	54:01	-	0.75
224	Nona¶	13C-PCB-208	100.00	2.68e+08	0.77 y	53:17	-	1.24
225	Nona¶	13C-PCB-206	100.00	2.01e+08	0.78 y	55:36	-	0.93
226	Deca¶	13C-PCB-209	100.00	1.77e+08	1.22 y	56:57	-	0.82
227	DI-RS	13C-PCB-15	100.00	3.88e+08	1.55 y	25:57	-	1.00
228	Tri-¶	13C-PCB-31	100.00	2.86e+08	1.01 y	29:00	-	1.00
229	Tetr¶	13C-PCB-60	100.00	3.17e+08	0.81 y	36:47	-	1.00
230	Penta	13C-PCB-111	100.00	1.66e+08	1.63 y	39:16	-	1.00
231	Hexa¶	13C-PCB-128	100.00	2.11e+08	1.27 y	46:23	-	1.00
232	Hept¶	13C-PCB-182	100.00	1.18e+08	0.47 y	46:12	-	1.00

233	Octa¬	13C-PCB-205	100.00	2.16e+08	0.89 y	54:17	-	1.00
234	CRS	13C-PCB-79	100.00	3.11e+08	0.81 y	37:51	-	0.98
235	CRS	13C-PCB-178	100.00	1.10e+08	0.47 y	45:40	-	0.93
236	PS	13C-PCB-79	100.00	3.11e+08	0.81 y	37:51	-	1.03
237	PS	13C-PCB-178	100.00	1.10e+08	0.47 y	45:40	-	0.95

Filename: 170313E2 S: 5 Acquired: 13-MAR-17 08:26:09
Run: 170313E2 Analyte: ICal: PCBVG8-3-13-17 Results:
Sample text: ST170313E2-5 PCB CS4 17C0312

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	400.00	1.60e+09	3.10 y	16:06	-	1.30
2	Mono	PCB-2	400.00	1.72e+09	3.11 y	18:30	-	1.25
3	Mono	PCB-3	400.00	1.74e+09	3.07 y	18:44	-	1.27
4	Di	PCB-4/10	800.00	2.32e+09	1.54 y	20:07	-	1.21
5	Di	PCB-7/9	800.00	2.93e+09	1.53 y	21:54	-	0.94
6	Di	PCB-6	400.00	1.45e+09	1.54 y	22:33	-	0.93
7	Di	PCB-5/8	800.00	3.03e+09	1.53 y	22:58	-	0.97
8	Di	PCB-14	400.00	1.79e+09	1.53 y	24:04	-	1.08
9	Di	PCB-11	400.00	1.56e+09	1.54 y	25:16	-	0.94
10	Di	PCB-12/13	800.00	3.17e+09	1.53 y	25:39	-	0.96
11	Di	PCB-15	400.00	1.80e+09	1.53 y	25:58	-	1.09
12	Tri	PCB-19	400.00	9.62e+08	1.06 y	24:15	-	1.49
13	Tri	PCB-30	400.00	1.62e+09	1.05 y	25:08	-	2.51
14	Tri	PCB-18	400.00	1.10e+09	1.05 y	25:53	-	1.02
15	Tri	PCB-17	400.00	1.19e+09	1.06 y	26:04	-	1.12
16	Tri	PCB-24/27	800.00	3.29e+09	1.06 y	26:39	-	1.54
17	Tri	PCB-16/32	800.00	2.76e+09	1.05 y	27:09	-	1.29
18	Tri	PCB-34	400.00	1.03e+09	0.96 y	27:57	-	0.81
19	Tri	PCB-23	400.00	9.74e+08	0.98 y	28:03	-	0.76
20	Tri	PCB-29	400.00	1.04e+09	0.99 y	28:18	-	0.81
21	Tri	PCB-26	400.00	1.06e+09	0.97 y	28:30	-	0.83
22	Tri	PCB-25	400.00	9.85e+08	0.98 y	28:40	-	0.77
23	Tri	PCB-31	400.00	1.09e+09	0.99 y	29:01	-	0.86
24	Tri	PCB-28	400.00	9.80e+08	1.00 y	29:08	-	0.77
25	Tri	PCB-20/21/33	1200.00	2.83e+09	0.99 y	29:44	-	0.74
26	Tri	PCB-22	400.00	9.88e+08	1.00 y	30:11	-	0.77
27	Tri	PCB-36	400.00	9.63e+08	0.97 y	30:48	-	0.83
28	Tri	PCB-39	400.00	1.04e+09	0.98 y	31:16	-	0.90
29	Tri	PCB-38	400.00	8.93e+08	0.98 y	32:03	-	0.77
30	Tri	PCB-35	400.00	9.49e+08	0.98 y	32:33	-	0.82
31	Tri	PCB-37	400.00	1.10e+09	0.98 y	33:01	-	0.94
32	Tetra	PCB-54	400.00	1.30e+09	0.79 y	28:00	-	1.06
33	Tetra	PCB-50	400.00	1.07e+09	0.79 y	29:11	-	0.87
34	Tetra	PCB-53	400.00	1.07e+09	0.78 y	29:49	-	1.04
35	Tetra	PCB-51	400.00	1.13e+09	0.78 y	30:10	-	1.10
36	Tetra	PCB-45	400.00	9.86e+08	0.78 y	30:36	-	0.96
37	Tetra	PCB-46	400.00	9.18e+08	0.78 y	31:05	-	0.90
38	Tetra	PCB-52/69	800.00	2.54e+09	0.78 y	31:34	-	1.24
39	Tetra	PCB-73	400.00	1.44e+09	0.80 y	31:41	-	1.41
40	Tetra	PCB-43/49	800.00	2.16e+09	0.79 y	31:51	-	1.06
41	Tetra	PCB-47	400.00	1.15e+09	0.79 y	32:03	-	1.09

42	Tetra	PCB-48/75	800.00	2.67e+09	0.78	y	32:09	-	1.27
43	Tetra	PCB-65	400.00	1.27e+09	0.77	y	32:25	-	1.21
44	Tetra	PCB-62	400.00	1.39e+09	0.79	y	32:32	-	1.33
45	Tetra	PCB-44	400.00	9.45e+08	0.78	y	32:50	-	0.90
46	Tetra	PCB-42/59	800.00	2.66e+09	0.78	y	33:04	-	1.27
47	Tetra	PCB-41/64/71/72	1600.00	5.49e+09	0.78	y	33:39	-	1.31
48	Tetra	PCB-68	400.00	1.60e+09	0.79	y	33:55	-	1.52
49	Tetra	PCB-40	400.00	8.42e+08	0.79	y	34:08	-	0.80
50	Tetra	PCB-57	400.00	1.49e+09	0.79	y	34:30	-	1.09
51	Tetra	PCB-67	400.00	1.54e+09	0.77	y	34:48	-	1.13
52	Tetra	PCB-58	400.00	1.55e+09	0.80	y	34:55	-	1.13

53	Tetra	PCB-63	400.00	1.63e+09	0.79 y	35:04	-	1.19
54	Tetra	PCB-74	400.00	1.66e+09	0.78 y	35:22	-	1.21
55	Tetra	PCB-61/70	800.00	2.99e+09	0.79 y	35:32	-	1.09
56	Tetra	PCB-76/66	800.00	3.26e+09	0.79 y	35:45	-	1.19
57	Tetra	PCB-80	400.00	1.90e+09	0.79 y	35:59	-	1.37
58	Tetra	PCB-55	400.00	1.76e+09	0.78 y	36:18	-	1.27
59	Tetra	PCB-56/60	800.00	3.07e+09	0.79 y	36:48	-	1.10
60	Tetra	PCB-79	400.00	1.70e+09	0.79 y	37:52	-	1.22
61	Tetra	PCB-78	400.00	1.70e+09	0.79 y	38:34	-	1.19
62	Tetra	PCB-81	400.00	1.83e+09	0.79 y	39:05	-	1.28
63	Tetra	PCB-77	400.00	1.80e+09	0.80 y	39:41	-	1.28
64	Penta	PCB-104	400.00	9.87e+08	1.60 y	32:42	-	1.34
65	Penta	PCB-96	400.00	8.84e+08	1.61 y	33:57	-	1.20
66	Penta	PCB-103	400.00	8.22e+08	1.61 y	34:30	-	1.11
67	Penta	PCB-100	400.00	8.33e+08	1.61 y	34:51	-	1.13
68	Penta	PCB-94	400.00	6.86e+08	1.61 y	35:19	-	1.14
69	Penta	PCB-95/98/102	1200.00	2.28e+09	1.61 y	35:49	-	1.27
70	Penta	PCB-93	400.00	7.07e+08	1.64 y	35:57	-	1.18
71	Penta	PCB-88/91	800.00	1.43e+09	1.61 y	36:14	-	1.19
72	Penta	PCB-121	400.00	1.09e+09	1.62 y	36:21	-	1.81
73	Penta	PCB-84/92	800.00	1.44e+09	1.61 y	37:09	-	1.18
74	Penta	PCB-89	400.00	6.78e+08	1.62 y	37:21	-	1.12
75	Penta	PCB-90/101	800.00	1.63e+09	1.61 y	37:32	-	1.34
76	Penta	PCB-113	400.00	9.28e+08	1.59 y	37:47	-	1.53
77	Penta	PCB-99	400.00	8.11e+08	1.62 y	37:53	-	1.34
78	Penta	PCB-119	400.00	1.10e+09	1.59 y	38:20	-	2.09
79	Penta	PCB-108/112	800.00	1.69e+09	1.61 y	38:29	-	1.61
80	Penta	PCB-83	400.00	1.02e+09	1.62 y	38:39	-	1.95
81	Penta	PCB-97	400.00	7.68e+08	1.61 y	38:51	-	1.46
82	Penta	PCB-86	400.00	5.77e+08	1.56 y	39:00	-	1.10
83	Penta	PCB-87/117/125	1200.00	2.85e+09	1.62 y	39:07	-	1.81
84	Penta	PCB-111/115	800.00	2.14e+09	1.59 y	39:17	-	2.04
85	Penta	PCB-85/116	800.00	1.61e+09	1.63 y	39:24	-	1.54
86	Penta	PCB-120	400.00	1.18e+09	1.61 y	39:39	-	2.24
87	Penta	PCB-110	400.00	9.71e+08	1.63 y	39:47	-	1.85
88	Penta	PCB-82	400.00	5.82e+08	1.60 y	40:25	-	0.83
89	Penta	PCB-124	400.00	1.07e+09	1.76 y	41:06	-	1.53
90	Penta	PCB-107/109	800.00	2.11e+09	1.53 y	41:14	-	1.50
91	Penta	PCB-123	400.00	1.02e+09	1.60 y	41:25	-	1.45
92	Penta	PCB-106/118	800.00	2.17e+09	1.61 y	41:37	-	1.44
93	Penta	PCB-114	400.00	1.22e+09	1.54 y	42:14	-	1.10
94	Penta	PCB-122	400.00	1.07e+09	1.53 y	42:22	-	0.97
95	Penta	PCB-105	400.00	1.19e+09	1.54 y	43:06	-	1.11
96	Penta	PCB-127	400.00	1.09e+09	1.57 y	43:27	-	0.94
97	Penta	PCB-126	400.00	1.11e+09	1.55 y	45:20	-	1.03
98	Hexa	PCB-155	400.00	6.74e+08	1.28 y	37:05	-	1.23
99	Hexa	PCB-150	400.00	6.34e+08	1.28 y	38:21	-	1.16
100	Hexa	PCB-152	400.00	6.32e+08	1.28 y	38:49	-	1.15
101	Hexa	PCB-145	400.00	6.19e+08	1.27 y	39:16	-	1.13
102	Hexa	PCB-136	400.00	6.40e+08	1.28 y	39:35	-	1.17

103	Hexa	PCB-148	400.00	4.67e+08	1.28	y	39:42	-	0.85
104	Hexa	PCB-154	400.00	5.10e+08	1.28	y	40:11	-	0.93
105	Hexa	PCB-151	400.00	4.92e+08	1.29	y	40:50	-	0.90
106	Hexa	PCB-135	400.00	4.97e+08	1.29	y	41:02	-	0.91
107	Hexa	PCB-144	400.00	4.92e+08	1.26	y	41:09	-	0.90
108	Hexa	PCB-147	400.00	4.58e+08	1.27	y	41:17	-	0.84
109	Hexa	PCB-139/149	800.00	1.03e+09	1.29	y	41:33	-	0.94
110	Hexa	PCB-140	400.00	4.65e+08	1.26	y	41:44	-	0.85
111	Hexa	PCB-134/143	800.00	2.22e+09	1.25	y	42:11	-	0.90
112	Hexa	PCB-131/133	800.00	2.21e+09	1.25	y	42:28	-	0.90
113	Hexa	PCB-142	400.00	1.03e+09	1.25	y	42:37	-	0.83

114	Hexa	PCB-146/165	800.00	2.72e+09	1.25 y	42:51	-	1.10
115	Hexa	PCB-132/161	800.00	2.69e+09	1.25 y	43:06	-	1.09
116	Hexa	PCB-153	400.00	1.36e+09	1.26 y	43:16	-	1.10
117	Hexa	PCB-168	400.00	1.65e+09	1.25 y	43:28	-	1.34
118	Hexa	PCB-141	400.00	1.23e+09	1.24 y	44:01	-	1.19
119	Hexa	PCB-137	400.00	1.31e+09	1.23 y	44:23	-	1.26
120	Hexa	PCB-130	400.00	9.84e+08	1.26 y	44:30	-	0.95
121	Hexa	PCB-138/163/164	1200.00	4.38e+09	1.24 y	44:52	-	1.33
122	Hexa	PCB-158/160	800.00	3.19e+09	1.25 y	45:07	-	1.46
123	Hexa	PCB-129	400.00	1.05e+09	1.25 y	45:20	-	0.95
124	Hexa	PCB-166	400.00	1.62e+09	1.25 y	45:48	-	1.21
125	Hexa	PCB-159	400.00	1.74e+09	1.27 y	46:08	-	1.30
126	Hexa	PCB-128/162	800.00	2.80e+09	1.24 y	46:25	-	1.05
127	Hexa	PCB-167	400.00	1.61e+09	1.24 y	46:48	-	1.21
128	Hexa	PCB-156	400.00	1.73e+09	1.24 y	48:06	-	1.27
129	Hexa	PCB-157	400.00	1.67e+09	1.25 y	48:22	-	1.27
130	Hexa	PCB-169	400.00	1.57e+09	1.26 y	50:34	-	1.19
131	Hepta	PCB-188	400.00	1.21e+09	1.07 y	42:54	-	1.68
132	Hepta	PCB-184	400.00	1.10e+09	1.07 y	43:21	-	1.52
133	Hepta	PCB-179	400.00	1.14e+09	1.07 y	44:08	-	1.57
134	Hepta	PCB-176	400.00	1.22e+09	1.07 y	44:35	-	1.68
135	Hepta	PCB-186	400.00	1.23e+09	1.07 y	45:12	-	1.70
136	Hepta	PCB-178	400.00	8.82e+08	1.07 y	45:41	-	1.22
137	Hepta	PCB-175	400.00	8.83e+08	1.06 y	46:02	-	1.22
138	Hepta	PCB-182/187	800.00	1.95e+09	1.07 y	46:12	-	1.35
139	Hepta	PCB-183	400.00	1.03e+09	1.07 y	46:32	-	1.42
140	Hepta	PCB-185	400.00	9.03e+08	1.07 y	47:11	-	1.70
141	Hepta	PCB-174	400.00	7.63e+08	1.06 y	47:32	-	1.44
142	Hepta	PCB-181	400.00	9.36e+08	1.07 y	47:39	-	1.76
143	Hepta	PCB-177	400.00	7.97e+08	1.07 y	47:49	-	1.50
144	Hepta	PCB-171	400.00	9.31e+08	1.07 y	48:07	-	1.75
145	Hepta	PCB-173	400.00	7.34e+08	1.07 y	48:32	-	1.38
146	Hepta	PCB-172	400.00	8.76e+08	1.06 y	48:59	-	1.65
147	Hepta	PCB-192	400.00	1.15e+09	1.07 y	49:11	-	2.17
148	Hepta	PCB-180	400.00	8.92e+08	1.07 y	49:23	-	1.68
149	Hepta	PCB-193	400.00	1.20e+09	1.07 y	49:36	-	2.25
150	Hepta	PCB-191	400.00	1.23e+09	1.07 y	49:51	-	2.31
151	Hepta	PCB-170	400.00	8.47e+08	1.06 y	50:57	-	1.83
152	Hepta	PCB-190	400.00	1.20e+09	1.07 y	51:07	-	2.59
153	Hepta	PCB-189	400.00	1.19e+09	1.07 y	52:30	-	1.85
154	Octa	PCB-202	400.00	6.10e+08	0.91 y	48:19	-	1.23
155	Octa	PCB-201	400.00	6.56e+08	0.91 y	48:48	-	1.32
156	Octa	PCB-204	400.00	6.16e+08	0.92 y	48:57	-	1.24
157	Octa	PCB-197	400.00	6.99e+08	0.91 y	49:15	-	1.40
158	Octa	PCB-200	400.00	6.42e+08	0.90 y	50:10	-	1.29
159	Octa	PCB-198	400.00	4.82e+08	0.90 y	51:34	-	0.97
160	Octa	PCB-199	400.00	4.59e+08	0.91 y	51:41	-	0.92
161	Octa	PCB-196/203	800.00	1.04e+09	0.91 y	51:57	-	1.05
162	Octa	PCB-195	400.00	6.52e+08	0.87 y	53:09	-	0.90
163	Octa	PCB-194	400.00	7.25e+08	0.88 y	54:01	-	1.00

164	Octa	PCB-205	400.00	9.29e+08	0.88	y	54:18	-	1.29
165	Nona	PCB-208	400.00	1.26e+09	1.32	y	53:18	-	1.06
166	Nona	PCB-207	400.00	1.30e+09	1.33	y	53:36	-	1.09
167	Nona	PCB-206	400.00	8.17e+08	1.33	y	55:37	-	0.90
168	Deca	PCB-209	400.00	1.17e+09	1.19	y	56:57	-	1.42
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.27
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	0.98
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.47

172	Tot ¶	Total Tri-PCB	0.00	-	-	n	-	-	0.80
173	Tot ¶	Total Tetra-PCB	0.00	-	-	n	-	-	1.14
174	Tot ¶	Total Penta-PCB	0.00	-	-	n	-	-	1.37
175	Tot ¶	Total Penta-PCB	0.00	-	-	n	-	-	1.03
176	Tot ¶	Total Hexa-PCB	0.00	-	-	n	-	-	0.99
177	Tot ¶	Total Hexa-PCB	0.00	-	-	n	-	-	1.14
178	Tot ¶	Total Hepta-PCB	0.00	-	-	n	-	-	1.62
179	Tot ¶	Total Octa-PCB	0.00	-	-	n	-	-	1.16
180	Tot ¶	Total Octa-PCB	0.00	-	-	n	-	-	1.06
181	Tot ¶	Total Nona-PCB	0.00	-	-	n	-	-	1.03
182	Tot ¶	Total Deca-PCB	400.00	1.17e+09	1.19	y	56:57	-	1.42
183	Mono¶	13C-PCB-1	100.00	3.08e+08	3.27	y	16:05	-	0.70
184	Mono¶	13C-PCB-3	100.00	3.44e+08	3.28	y	18:43	-	0.78
185	Di-IS	13C-PCB-4	100.00	2.40e+08	1.58	y	20:03	-	0.54
186	Di-IS	13C-PCB-9	100.00	3.90e+08	1.55	y	21:51	-	0.88
187	Di-IS	13C-PCB-11	100.00	4.14e+08	1.54	y	25:15	-	0.94
188	Tri-¶	13C-PCB-19	100.00	1.61e+08	1.09	y	24:13	-	0.36
189	Tri-¶	13C-PCB-32	100.00	2.68e+08	1.09	y	27:09	-	0.61
190	Tri-¶	13C-PCB-28	100.00	3.20e+08	1.00	y	29:07	-	1.18
191	Tri-¶	13C-PCB-37	100.00	2.91e+08	1.03	y	32:59	-	1.07
192	Tetr¶	13C-PCB-54	100.00	3.08e+08	0.79	y	27:58	-	0.91
193	Tetr¶	13C-PCB-52	100.00	2.56e+08	0.81	y	31:32	-	0.76
194	Tetr¶	13C-PCB-47	100.00	2.62e+08	0.80	y	32:02	-	0.78
195	Tetr¶	13C-PCB-70	100.00	3.42e+08	0.81	y	35:33	-	1.01
196	Tetr¶	13C-PCB-80	100.00	3.48e+08	0.81	y	35:58	-	1.03
197	Tetr¶	13C-PCB-81	100.00	3.56e+08	0.81	y	39:04	-	1.05
198	Tetr¶	13C-PCB-77	100.00	3.50e+08	0.82	y	39:40	-	1.04
199	Pent¶	13C-PCB-104	100.00	1.85e+08	1.62	y	32:41	-	0.97
200	Pent¶	13C-PCB-95	100.00	1.50e+08	1.60	y	35:51	-	0.79
201	Pent¶	13C-PCB-101	100.00	1.52e+08	1.62	y	37:32	-	0.80
202	Pent¶	13C-PCB-97	100.00	1.31e+08	1.59	y	38:50	-	0.69
203	Pent¶	13C-PCB-123	100.00	1.76e+08	1.60	y	41:24	-	0.93
204	Pent¶	13C-PCB-118	100.00	1.89e+08	1.64	y	41:34	-	0.99
205	Pent¶	13C-PCB-114	100.00	2.76e+08	1.56	y	42:14	-	1.17
206	Pent¶	13C-PCB-105	100.00	2.70e+08	1.55	y	43:06	-	1.15
207	Pent¶	13C-PCB-127	100.00	2.88e+08	1.55	y	43:26	-	1.22
208	Pent¶	13C-PCB-126	100.00	2.70e+08	1.55	y	45:20	-	1.15
209	Hexa¶	13C-PCB-155	100.00	1.37e+08	1.29	y	37:05	-	0.72
210	Hexa¶	13C-PCB-153	100.00	3.09e+08	1.25	y	43:15	-	1.31
211	Hexa¶	13C-PCB-141	100.00	2.59e+08	1.29	y	43:59	-	1.10
212	Hexa	13C-PCB-138	100.00	2.74e+08	1.28	y	44:50	-	1.16
213	Hexa¶	13C-PCB-159	100.00	3.35e+08	1.28	y	46:07	-	1.42
214	Hexa¶	13C-PCB-167	100.00	3.34e+08	1.30	y	46:48	-	1.42
215	Hexa¶	13C-PCB-156	100.00	3.39e+08	1.29	y	48:05	-	1.44
216	Hexa¶	13C-PCB-157	100.00	3.29e+08	1.29	y	48:22	-	1.40
217	Hexa¶	13C-PCB-169	100.00	3.31e+08	1.28	y	50:33	-	1.41
218	Hept¶	13C-PCB-188	100.00	1.81e+08	0.47	y	42:52	-	1.30
219	Hept¶	13C-PCB-180	100.00	1.33e+08	0.46	y	49:22	-	0.96
220	Hept¶	13C-PCB-170	100.00	1.16e+08	0.47	y	50:56	-	0.84
221	Hept¶	13C-PCB-189	100.00	1.61e+08	0.46	y	52:29	-	1.16
222	Octa¶	13C-PCB-202	100.00	1.24e+08	0.93	y	48:18	-	0.90

223	Octa¬	13C-PCB-194	100.00	1.81e+08	0.89 y	54:00	-	0.75
224	Nona¬	13C-PCB-208	100.00	2.97e+08	0.78 y	53:17	-	1.23
225	Nona¬	13C-PCB-206	100.00	2.26e+08	0.80 y	55:36	-	0.94
226	Deca¬	13C-PCB-209	100.00	2.06e+08	1.21 y	56:56	-	0.85
227	DI-RS	13C-PCB-15	100.00	4.42e+08	1.53 y	25:57	-	1.00
228	Tri-¬	13C-PCB-31	100.00	2.72e+08	1.01 y	29:00	-	1.00
229	Tetr¬	13C-PCB-60	100.00	3.38e+08	0.80 y	36:47	-	1.00
230	Penta	13C-PCB-111	100.00	1.90e+08	1.63 y	39:16	-	1.00
231	Hexa¬	13C-PCB-128	100.00	2.36e+08	1.29 y	46:23	-	1.00
232	Hept¬	13C-PCB-182	100.00	1.39e+08	0.47 y	46:12	-	1.00

233	Octa¬	13C-PCB-205	100.00	2.42e+08	0.88 y	54:17	-	1.00
234	CRS	13C-PCB-79	100.00	3.51e+08	0.82 y	37:51	-	1.04
235	CRS	13C-PCB-178	100.00	1.22e+08	0.47 y	45:40	-	0.88
236	PS	13C-PCB-79	100.00	3.51e+08	0.82 y	37:51	-	0.99
237	PS	13C-PCB-178	100.00	1.22e+08	0.47 y	45:40	-	0.92

Filename: 170313E2 S: 6 Acquired: 13-MAR-17 09:31:03
Run: 170313E2 Analyte: ICal: PCBVG8-3-13-17 Results:
Sample text: ST170313E2-6 PCB CS5 17C0313

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	1000.00	4.05e+09	3.05 y	16:06	-	1.29
2	Mono	PCB-2	1000.00	4.59e+09	3.01 y	18:30	-	1.27
3	Mono	PCB-3	1000.00	4.53e+09	3.04 y	18:44	-	1.25
4	Di	PCB-4/10	2000.00	5.93e+09	1.53 y	20:07	-	1.21
5	Di	PCB-7/9	2000.00	7.53e+09	1.53 y	21:54	-	0.92
6	Di	PCB-6	1000.00	3.72e+09	1.54 y	22:33	-	0.91
7	Di	PCB-5/8	2000.00	7.71e+09	1.54 y	22:58	-	0.94
8	Di	PCB-14	1000.00	4.62e+09	1.53 y	24:03	-	1.06
9	Di	PCB-11	1000.00	4.04e+09	1.54 y	25:16	-	0.92
10	Di	PCB-12/13	2000.00	8.20e+09	1.54 y	25:39	-	0.94
11	Di	PCB-15	1000.00	4.70e+09	1.52 y	25:58	-	1.07
12	Tri	PCB-19	1000.00	2.57e+09	1.05 y	24:14	-	1.48
13	Tri	PCB-30	1000.00	4.40e+09	1.05 y	25:08	-	2.53
14	Tri	PCB-18	1000.00	2.96e+09	1.06 y	25:53	-	1.05
15	Tri	PCB-17	1000.00	3.23e+09	1.05 y	26:04	-	1.14
16	Tri	PCB-24/27	2000.00	8.83e+09	1.05 y	26:38	-	1.56
17	Tri	PCB-16/32	2000.00	7.28e+09	1.06 y	27:09	-	1.29
18	Tri	PCB-34	1000.00	2.92e+09	0.97 y	27:57	-	0.98
19	Tri	PCB-23	1000.00	2.26e+09	0.99 y	28:03	-	0.76
20	Tri	PCB-29	1000.00	2.78e+09	0.98 y	28:18	-	0.94
21	Tri	PCB-26	1000.00	2.64e+09	0.99 y	28:30	-	0.89
22	Tri	PCB-25	1000.00	2.24e+09	0.95 y	28:39	-	0.76
23	Tri	PCB-31	1000.00	2.54e+09	0.97 y	29:01	-	0.86
24	Tri	PCB-28	1000.00	2.49e+09	1.00 y	29:08	-	0.84
25	Tri	PCB-20/21/33	3000.00	7.64e+09	0.99 y	29:44	-	0.86
26	Tri	PCB-22	1000.00	2.42e+09	0.98 y	30:10	-	0.82
27	Tri	PCB-36	1000.00	2.38e+09	0.97 y	30:48	-	0.75
28	Tri	PCB-39	1000.00	2.55e+09	0.98 y	31:16	-	0.80
29	Tri	PCB-38	1000.00	2.58e+09	0.94 y	32:03	-	0.81
30	Tri	PCB-35	1000.00	2.64e+09	0.98 y	32:34	-	0.83
31	Tri	PCB-37	1000.00	2.95e+09	0.99 y	33:00	-	0.93
32	Tetra	PCB-54	1000.00	3.51e+09	0.78 y	28:00	-	1.03
33	Tetra	PCB-50	1000.00	2.67e+09	0.78 y	29:10	-	0.78
34	Tetra	PCB-53	1000.00	2.87e+09	0.78 y	29:49	-	1.10
35	Tetra	PCB-51	1000.00	2.80e+09	0.78 y	30:09	-	1.07
36	Tetra	PCB-45	1000.00	2.55e+09	0.78 y	30:35	-	0.98
37	Tetra	PCB-46	1000.00	2.34e+09	0.78 y	31:05	-	0.90
38	Tetra	PCB-52/69	2000.00	6.58e+09	0.78 y	31:33	-	1.26
39	Tetra	PCB-73	1000.00	3.59e+09	0.79 y	31:40	-	1.38
40	Tetra	PCB-43/49	2000.00	5.90e+09	0.78 y	31:50	-	1.13
41	Tetra	PCB-47	1000.00	3.40e+09	0.77 y	32:03	-	1.12

42	Tetra	PCB-48/75	2000.00	7.30e+09	0.78 y	32:10	-	1.20
43	Tetra	PCB-65	1000.00	3.72e+09	0.78 y	32:26	-	1.23
44	Tetra	PCB-62	1000.00	3.80e+09	0.79 y	32:31	-	1.25
45	Tetra	PCB-44	1000.00	2.52e+09	0.78 y	32:49	-	0.83
46	Tetra	PCB-42/59	2000.00	7.14e+09	0.79 y	33:04	-	1.18
47	Tetra	PCB-41/64/71/72	4000.00	1.27e+10	0.88 y	33:39	-	1.04
48	Tetra	PCB-68	1000.00	4.36e+09	0.77 y	33:54	-	1.44
49	Tetra	PCB-40	1000.00	2.37e+09	0.77 y	34:07	-	0.78
50	Tetra	PCB-57	1000.00	4.33e+09	0.78 y	34:29	-	1.16
51	Tetra	PCB-67	1000.00	3.96e+09	0.86 y	34:48	-	1.07
52	Tetra	PCB-58	1000.00	4.22e+09	0.71 y	34:54	-	1.13

53	Tetra	PCB-63	1000.00	4.17e+09	0.78 y	35:04	-	1.12
54	Tetra	PCB-74	1000.00	4.28e+09	0.78 y	35:21	-	1.15
55	Tetra	PCB-61/70	2000.00	8.25e+09	0.78 y	35:32	-	1.11
56	Tetra	PCB-76/66	2000.00	8.78e+09	0.78 y	35:44	-	1.18
57	Tetra	PCB-80	1000.00	5.09e+09	0.79 y	35:59	-	1.33
58	Tetra	PCB-55	1000.00	4.81e+09	0.77 y	36:17	-	1.25
59	Tetra	PCB-56/60	2000.00	8.36e+09	0.79 y	36:47	-	1.09
60	Tetra	PCB-79	1000.00	4.61e+09	0.79 y	37:52	-	1.20
61	Tetra	PCB-78	1000.00	4.68e+09	0.78 y	38:34	-	1.17
62	Tetra	PCB-81	1000.00	5.04e+09	0.78 y	39:04	-	1.25
63	Tetra	PCB-77	1000.00	4.73e+09	0.80 y	39:41	-	1.25
64	Penta	PCB-104	1000.00	2.71e+09	1.61 y	32:42	-	1.35
65	Penta	PCB-96	1000.00	2.42e+09	1.61 y	33:58	-	1.21
66	Penta	PCB-103	1000.00	2.31e+09	1.60 y	34:29	-	1.15
67	Penta	PCB-100	1000.00	2.24e+09	1.60 y	34:51	-	1.12
68	Penta	PCB-94	1000.00	1.86e+09	1.59 y	35:19	-	1.13
69	Penta	PCB-95/98/102	3000.00	6.35e+09	1.59 y	35:49	-	1.29
70	Penta	PCB-93	1000.00	1.80e+09	1.63 y	35:57	-	1.09
71	Penta	PCB-88/91	2000.00	4.07e+09	1.59 y	36:14	-	1.24
72	Penta	PCB-121	1000.00	2.89e+09	1.63 y	36:21	-	1.76
73	Penta	PCB-84/92	2000.00	4.01e+09	1.61 y	37:10	-	1.20
74	Penta	PCB-89	1000.00	1.87e+09	1.61 y	37:21	-	1.12
75	Penta	PCB-90/101	2000.00	4.46e+09	1.61 y	37:32	-	1.34
76	Penta	PCB-113	1000.00	2.66e+09	1.59 y	37:47	-	1.60
77	Penta	PCB-99	1000.00	2.15e+09	1.62 y	37:53	-	1.29
78	Penta	PCB-119	1000.00	3.11e+09	1.61 y	38:20	-	2.14
79	Penta	PCB-108/112	2000.00	4.73e+09	1.61 y	38:29	-	1.62
80	Penta	PCB-83	1000.00	2.81e+09	1.61 y	38:39	-	1.93
81	Penta	PCB-97	1000.00	2.08e+09	1.60 y	38:51	-	1.43
82	Penta	PCB-86	1000.00	1.65e+09	1.57 y	38:59	-	1.13
83	Penta	PCB-87/117/125	3000.00	7.77e+09	1.61 y	39:07	-	1.78
84	Penta	PCB-111/115	2000.00	6.39e+09	1.62 y	39:17	-	2.20
85	Penta	PCB-85/116	2000.00	4.38e+09	1.62 y	39:24	-	1.50
86	Penta	PCB-120	1000.00	3.28e+09	1.60 y	39:39	-	2.26
87	Penta	PCB-110	1000.00	2.58e+09	1.62 y	39:48	-	1.78
88	Penta	PCB-82	1000.00	1.64e+09	1.60 y	40:24	-	0.82
89	Penta	PCB-124	1000.00	2.92e+09	1.60 y	41:06	-	1.46
90	Penta	PCB-107/109	2000.00	6.18e+09	1.62 y	41:14	-	1.54
91	Penta	PCB-123	1000.00	2.84e+09	1.61 y	41:24	-	1.42
92	Penta	PCB-106/118	2000.00	6.25e+09	1.62 y	41:37	-	1.44
93	Penta	PCB-114	1000.00	3.33e+09	1.53 y	42:14	-	1.09
94	Penta	PCB-122	1000.00	2.96e+09	1.55 y	42:23	-	0.97
95	Penta	PCB-105	1000.00	3.22e+09	1.54 y	43:07	-	1.10
96	Penta	PCB-127	1000.00	2.97e+09	1.56 y	43:26	-	0.93
97	Penta	PCB-126	1000.00	3.04e+09	1.55 y	45:21	-	1.02
98	Hexa	PCB-155	1000.00	1.83e+09	1.28 y	37:06	-	1.24
99	Hexa	PCB-150	1000.00	1.72e+09	1.27 y	38:21	-	1.17
100	Hexa	PCB-152	1000.00	1.73e+09	1.28 y	38:50	-	1.17
101	Hexa	PCB-145	1000.00	1.66e+09	1.28 y	39:17	-	1.13
102	Hexa	PCB-136	1000.00	1.81e+09	1.28 y	39:36	-	1.23

103	Hexa	PCB-148	1000.00	1.26e+09	1.29 y	39:43	-	0.86
104	Hexa	PCB-154	1000.00	1.46e+09	1.29 y	40:12	-	0.99
105	Hexa	PCB-151	1000.00	1.36e+09	1.28 y	40:50	-	0.92
106	Hexa	PCB-135	1000.00	1.26e+09	1.27 y	41:03	-	0.86
107	Hexa	PCB-144	1000.00	1.52e+09	1.29 y	41:09	-	1.03
108	Hexa	PCB-147	1000.00	1.24e+09	1.28 y	41:17	-	0.84
109	Hexa	PCB-139/149	2000.00	2.82e+09	1.27 y	41:33	-	0.96
110	Hexa	PCB-140	1000.00	1.27e+09	1.29 y	41:45	-	0.86
111	Hexa	PCB-134/143	2000.00	6.09e+09	1.24 y	42:10	-	0.87
112	Hexa	PCB-131/133	2000.00	6.17e+09	1.24 y	42:28	-	0.88
113	Hexa	PCB-142	1000.00	2.83e+09	1.25 y	42:38	-	0.81

114	Hexa	PCB-146/165	2000.00	7.49e+09	1.25	y	42:51	-	1.07
115	Hexa	PCB-132/161	2000.00	7.38e+09	1.24	y	43:05	-	1.06
116	Hexa	PCB-153	1000.00	3.74e+09	1.25	y	43:16	-	1.07
117	Hexa	PCB-168	1000.00	4.59e+09	1.25	y	43:28	-	1.31
118	Hexa	PCB-141	1000.00	3.40e+09	1.24	y	44:00	-	1.16
119	Hexa	PCB-137	1000.00	3.81e+09	1.23	y	44:23	-	1.30
120	Hexa	PCB-130	1000.00	2.66e+09	1.26	y	44:30	-	0.91
121	Hexa	PCB-138/163/164	3000.00	1.16e+10	1.16	y	44:52	-	1.25
122	Hexa	PCB-158/160	2000.00	8.92e+09	1.24	y	45:07	-	1.44
123	Hexa	PCB-129	1000.00	2.90e+09	1.25	y	45:21	-	0.94
124	Hexa	PCB-166	1000.00	4.61e+09	1.24	y	45:47	-	1.21
125	Hexa	PCB-159	1000.00	4.93e+09	1.26	y	46:08	-	1.29
126	Hexa	PCB-128/162	2000.00	8.00e+09	1.24	y	46:24	-	1.05
127	Hexa	PCB-167	1000.00	4.55e+09	1.24	y	46:49	-	1.19
128	Hexa	PCB-156	1000.00	4.79e+09	1.24	y	48:06	-	1.24
129	Hexa	PCB-157	1000.00	4.84e+09	1.25	y	48:22	-	1.25
130	Hexa	PCB-169	1000.00	4.56e+09	1.25	y	50:33	-	1.17
131	Hepta	PCB-188	1000.00	3.42e+09	1.07	y	42:54	-	1.63
132	Hepta	PCB-184	1000.00	3.11e+09	1.07	y	43:21	-	1.48
133	Hepta	PCB-179	1000.00	3.23e+09	1.07	y	44:08	-	1.54
134	Hepta	PCB-176	1000.00	3.44e+09	1.07	y	44:35	-	1.64
135	Hepta	PCB-186	1000.00	3.47e+09	1.07	y	45:11	-	1.65
136	Hepta	PCB-178	1000.00	2.52e+09	1.08	y	45:41	-	1.20
137	Hepta	PCB-175	1000.00	2.55e+09	1.07	y	46:02	-	1.21
138	Hepta	PCB-182/187	2000.00	5.54e+09	1.07	y	46:13	-	1.32
139	Hepta	PCB-183	1000.00	2.95e+09	1.07	y	46:31	-	1.41
140	Hepta	PCB-185	1000.00	2.57e+09	1.07	y	47:11	-	1.68
141	Hepta	PCB-174	1000.00	2.33e+09	1.06	y	47:32	-	1.53
142	Hepta	PCB-181	1000.00	2.59e+09	1.07	y	47:39	-	1.70
143	Hepta	PCB-177	1000.00	2.27e+09	1.07	y	47:49	-	1.49
144	Hepta	PCB-171	1000.00	2.65e+09	1.07	y	48:07	-	1.73
145	Hepta	PCB-173	1000.00	2.11e+09	1.07	y	48:32	-	1.38
146	Hepta	PCB-172	1000.00	2.52e+09	1.07	y	48:59	-	1.65
147	Hepta	PCB-192	1000.00	3.31e+09	1.07	y	49:11	-	2.17
148	Hepta	PCB-180	1000.00	2.57e+09	1.07	y	49:24	-	1.68
149	Hepta	PCB-193	1000.00	3.45e+09	1.07	y	49:36	-	2.26
150	Hepta	PCB-191	1000.00	3.52e+09	1.07	y	49:51	-	2.31
151	Hepta	PCB-170	1000.00	2.43e+09	1.07	y	50:57	-	1.87
152	Hepta	PCB-190	1000.00	3.48e+09	1.07	y	51:08	-	2.69
153	Hepta	PCB-189	1000.00	3.39e+09	1.07	y	52:30	-	1.86
154	Octa	PCB-202	1000.00	1.66e+09	0.91	y	48:19	-	1.25
155	Octa	PCB-201	1000.00	1.84e+09	0.91	y	48:48	-	1.39
156	Octa	PCB-204	1000.00	1.80e+09	0.91	y	48:57	-	1.36
157	Octa	PCB-197	1000.00	1.94e+09	0.92	y	49:15	-	1.46
158	Octa	PCB-200	1000.00	1.78e+09	0.92	y	50:10	-	1.34
159	Octa	PCB-198	1000.00	1.38e+09	0.91	y	51:34	-	1.04
160	Octa	PCB-199	1000.00	1.25e+09	0.92	y	51:41	-	0.94
161	Octa	PCB-196/203	2000.00	2.88e+09	0.92	y	51:57	-	1.09
162	Octa	PCB-195	1000.00	1.80e+09	0.87	y	53:09	-	0.92
163	Octa	PCB-194	1000.00	1.92e+09	0.87	y	54:02	-	0.98

164	Octa	PCB-205	1000.00	2.54e+09	0.88	y	54:18	-	1.30
165	Nona	PCB-208	1000.00	3.49e+09	1.32	y	53:18	-	1.04
166	Nona	PCB-207	1000.00	3.60e+09	1.32	y	53:37	-	1.08
167	Nona	PCB-206	1000.00	2.27e+09	1.32	y	55:37	-	0.90
168	Deca	PCB-209	1000.00	3.24e+09	1.20	y	56:58	-	1.46
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.27
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	0.96
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.49

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	0.84
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.10
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.37
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.02
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.02
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.11
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.60
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.22
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.07
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.01
182	Tot ╗	Total Deca-PCB	1000.00	3.24e+09	1.20	y	56:58	-	1.46
183	Mono╗	13C-PCB-1	100.00	3.15e+08	3.29	y	16:05	-	0.66
184	Mono╗	13C-PCB-3	100.00	3.62e+08	3.26	y	18:43	-	0.76
185	Di-IS	13C-PCB-4	100.00	2.46e+08	1.58	y	20:03	-	0.52
186	Di-IS	13C-PCB-9	100.00	4.10e+08	1.54	y	21:51	-	0.86
187	Di-IS	13C-PCB-11	100.00	4.37e+08	1.54	y	25:15	-	0.92
188	Tri-╗	13C-PCB-19	100.00	1.74e+08	1.09	y	24:13	-	0.37
189	Tri-╗	13C-PCB-32	100.00	2.83e+08	1.10	y	27:09	-	0.60
190	Tri-╗	13C-PCB-28	100.00	2.97e+08	1.00	y	29:07	-	1.00
191	Tri-╗	13C-PCB-37	100.00	3.17e+08	1.02	y	32:59	-	1.07
192	Tetr╗	13C-PCB-54	100.00	3.41e+08	0.80	y	27:59	-	0.91
193	Tetr╗	13C-PCB-52	100.00	2.60e+08	0.82	y	31:32	-	0.69
194	Tetr╗	13C-PCB-47	100.00	3.03e+08	0.80	y	32:02	-	0.81
195	Tetr╗	13C-PCB-70	100.00	3.72e+08	0.80	y	35:33	-	0.99
196	Tetr╗	13C-PCB-80	100.00	3.84e+08	0.80	y	35:58	-	1.02
197	Tetr╗	13C-PCB-81	100.00	4.02e+08	0.80	y	39:04	-	1.07
198	Tetr╗	13C-PCB-77	100.00	3.78e+08	0.80	y	39:40	-	1.01
199	Pent╗	13C-PCB-104	100.00	2.00e+08	1.59	y	32:40	-	0.94
200	Pent╗	13C-PCB-95	100.00	1.65e+08	1.65	y	35:51	-	0.77
201	Pent╗	13C-PCB-101	100.00	1.67e+08	1.62	y	37:32	-	0.79
202	Pent╗	13C-PCB-97	100.00	1.46e+08	1.63	y	38:50	-	0.69
203	Pent╗	13C-PCB-123	100.00	2.00e+08	1.61	y	41:24	-	0.94
204	Pent╗	13C-PCB-118	100.00	2.17e+08	1.63	y	41:34	-	1.02
205	Pent╗	13C-PCB-114	100.00	3.05e+08	1.56	y	42:14	-	1.12
206	Pent╗	13C-PCB-105	100.00	2.92e+08	1.53	y	43:05	-	1.08
207	Pent╗	13C-PCB-127	100.00	3.17e+08	1.55	y	43:26	-	1.17
208	Pent╗	13C-PCB-126	100.00	2.98e+08	1.55	y	45:20	-	1.10
209	Hexa╗	13C-PCB-155	100.00	1.47e+08	1.28	y	37:04	-	0.69
210	Hexa╗	13C-PCB-153	100.00	3.49e+08	1.28	y	43:15	-	1.28
211	Hexa╗	13C-PCB-141	100.00	2.92e+08	1.29	y	43:59	-	1.08
212	Hexa	13C-PCB-138	100.00	3.09e+08	1.30	y	44:49	-	1.14
213	Hexa╗	13C-PCB-159	100.00	3.81e+08	1.29	y	46:07	-	1.40
214	Hexa╗	13C-PCB-167	100.00	3.82e+08	1.27	y	46:47	-	1.41
215	Hexa╗	13C-PCB-156	100.00	3.87e+08	1.29	y	48:05	-	1.42
216	Hexa╗	13C-PCB-157	100.00	3.86e+08	1.28	y	48:21	-	1.42
217	Hexa╗	13C-PCB-169	100.00	3.89e+08	1.27	y	50:33	-	1.43
218	Hept╗	13C-PCB-188	100.00	2.10e+08	0.46	y	42:53	-	1.31
219	Hept╗	13C-PCB-180	100.00	1.53e+08	0.48	y	49:22	-	0.95
220	Hept╗	13C-PCB-170	100.00	1.30e+08	0.47	y	50:56	-	0.81
221	Hept╗	13C-PCB-189	100.00	1.82e+08	0.46	y	52:29	-	1.14
222	Octa╗	13C-PCB-202	100.00	1.32e+08	0.92	y	48:18	-	0.83

223	Octa¶	13C-PCB-194	100.00	1.95e+08	0.88	y	54:01	-	0.73
224	Nona¶	13C-PCB-208	100.00	3.35e+08	0.77	y	53:17	-	1.25
225	Nona¶	13C-PCB-206	100.00	2.53e+08	0.78	y	55:36	-	0.94
226	Deca¶	13C-PCB-209	100.00	2.21e+08	1.23	y	56:57	-	0.83
227	DI-RS	13C-PCB-15	100.00	4.74e+08	1.54	y	25:57	-	1.00
228	Tri-¶	13C-PCB-31	100.00	2.98e+08	1.01	y	29:00	-	1.00
229	Tetr¶	13C-PCB-60	100.00	3.75e+08	0.81	y	36:47	-	1.00
230	Penta	13C-PCB-111	100.00	2.12e+08	1.63	y	39:16	-	1.00
231	Hexa¶	13C-PCB-128	100.00	2.72e+08	1.29	y	46:23	-	1.00
232	Hept¶	13C-PCB-182	100.00	1.60e+08	0.47	y	46:12	-	1.00

233	Octa₹	13C-PCB-205	100.00	2.68e+08	0.88 y	54:17	-	1.00
234	CRS	13C-PCB-79	100.00	3.85e+08	0.80 y	37:51	-	1.02
235	CRS	13C-PCB-178	100.00	1.38e+08	0.47 y	45:40	-	0.86
236	PS	13C-PCB-79	100.00	3.85e+08	0.80 y	37:51	-	0.96
237	PS	13C-PCB-178	100.00	1.38e+08	0.47 y	45:40	-	0.90

Client ID: PCB SSS 17C1025
Lab ID: SS170313E2-1

Filename: 170313E2 S:8 Acq:13-MAR-17 11:40:39 ConCal: NA
GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	4.30e+08	3.07	y	1.36	16:06	1.001	0.996	1.006	96.0722
	PCB-2	*	*	n	1.30	NotFnd	*	0.983	0.993	*
	PCB-3	4.72e+08	3.08	y	1.33	18:44	1.001	0.996	1.006	96.8906
	PCB-4/10	5.84e+08	1.54	y	1.32	20:06	1.003	0.997	1.007	182.644
	PCB-7/9	3.63e+08	1.55	y	1.00	21:51	0.866	0.864	0.871	91.3671
	PCB-6	*	*	n	0.99	NotFnd	*	0.888	0.897	*
	PCB-5/8	3.83e+08	1.55	y	1.03	22:56	0.909	0.905	0.915	93.4358
	PCB-14	*	*	n	1.16	NotFnd	*	0.948	0.958	*
	PCB-11	3.80e+08	1.54	y	1.03	25:15	1.000	0.996	1.006	88.9662
	PCB-12/13	3.68e+08	1.53	y	1.03	25:41	1.018	1.011	1.021	86.1756
	PCB-15	4.10e+08	1.53	y	1.17	25:58	1.029	1.023	1.033	84.6933
	PCB-19	1.34e+08	1.04	y	1.52	24:14	1.001	0.996	1.006	46.2298
	PCB-30	*	*	n	2.51	NotFnd	*	1.033	1.043	*
	PCB-18	1.40e+08	1.04	y	1.11	25:53	0.954	0.949	0.959	43.2506
	PCB-17	*	*	n	1.21	NotFnd	*	0.955	0.965	*
	PCB-24/27	*	*	n	1.61	NotFnd	*	0.976	0.986	*
-	PCB-16/32	*	*	n	1.35	NotFnd	*	0.995	1.005	*
-	PCB-34	*	*	n	0.98	NotFnd	*	0.955	0.965	*
	PCB-23	*	*	n	0.93	NotFnd	*	0.958	0.968	*
	PCB-29	*	*	n	0.97	NotFnd	*	0.967	0.977	*
	PCB-26	*	*	n	0.96	NotFnd	*	0.975	0.985	*
	PCB-25	*	*	n	0.87	NotFnd	*	0.980	0.990	*
	PCB-31	1.26e+08	1.13	y	1.00	29:00	0.997	0.992	1.002	37.7194
	PCB-28	1.19e+08	0.87	n	0.93	29:07	1.001	0.995	1.005	38.2556
	PCB-20/21/33	1.19e+08	0.99	y	0.89	29:46	1.023	1.017	1.027	40.2886
	PCB-22	*	*	n	0.93	NotFnd	*	1.032	1.042	*
	PCB-36	*	*	n	0.94	NotFnd	*	0.929	0.939	*
	PCB-39	*	*	n	1.01	NotFnd	*	0.943	0.953	*
	PCB-38	1.11e+08	1.00	y	0.90	32:02	0.971	0.966	0.976	39.1376
	PCB-35	1.21e+08	1.00	y	0.89	32:34	0.987	0.982	0.992	43.1853
	PCB-37	1.32e+08	0.99	y	1.03	33:00	1.001	0.995	1.005	40.8555
	PCB-54	1.85e+08	0.78	y	1.17	27:59	1.001	0.996	1.006	46.4925
	PCB-50	*	*	n	0.94	NotFnd	*	1.038	1.048	*
	PCB-53	*	*	n	1.19	NotFnd	*	0.941	0.951	*
	PCB-51	*	*	n	1.25	NotFnd	*	0.952	0.962	*
	PCB-45	*	*	n	1.08	NotFnd	*	0.966	0.976	*
	PCB-46	*	*	n	1.01	NotFnd	*	0.981	0.991	*

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	1.49e+08	0.79	y	1.387	31:33	1.001	0.996	1.006	41.8942
PCB-73	*	*	n	1.506	NotFnd	*	1.000	1.010	*
PCB-43/49	1.38e+08	0.79	y	1.198	31:50	1.010	1.005	1.015	44.7358
PCB-47	*	*	n	1.187	NotFnd	*	0.995	1.005	*
PCB-48/75	*	*	n	1.385	NotFnd	*	0.999	1.009	*
PCB-65	*	*	n	1.308	NotFnd	*	1.007	1.017	*
PCB-62	*	*	n	1.383	NotFnd	*	1.011	1.021	*
PCB-44	1.25e+08	0.78	y	0.958	32:50	1.025	1.020	1.030	46.2959
PCB-42/59	*	*	n	1.324	NotFnd	*	1.027	1.037	*
PCB-41/64/71/72	*	*	n	1.378	NotFnd	*	1.046	1.056	*
PCB-68	*	*	n	1.628	NotFnd	*	1.054	1.064	*
PCB-40	*	*	n	0.911	NotFnd	*	1.061	1.071	*
PCB-57	1.80e+08	0.78	y	1.227	34:29	0.970	0.965	0.975	42.0530
PCB-67	*	*	n	1.210	NotFnd	*	0.974	0.984	*
PCB-58	*	*	n	1.279	NotFnd	*	0.977	0.987	*
PCB-63	*	*	n	1.305	NotFnd	*	0.981	0.991	*
PCB-74	1.95e+08	0.77	y	1.311	35:21	0.995	0.990	1.000	42.6620
PCB-61/70	1.95e+08	0.79	y	1.234	35:33	1.000	0.995	1.005	45.3864
PCB-76/66	1.98e+08	0.78	y	1.288	35:46	1.006	1.000	1.010	44.1329
PCB-80	*	*	n	1.487	NotFnd	*	0.996	1.006	*
PCB-55	*	*	n	1.364	NotFnd	*	1.004	1.014	*
PCB-56/60	*	*	n	1.254	NotFnd	*	1.018	1.028	*
PCB-79	2.00e+08	0.79	y	1.340	37:52	1.053	1.048	1.058	43.5104
PCB-78	1.73e+08	0.78	y	1.291	38:33	0.987	0.982	0.992	37.6846
PCB-81	2.02e+08	0.78	y	1.381	39:05	1.001	0.995	1.005	41.3309
PCB-77	1.94e+08	0.79	y	1.417	39:40	1.000	0.995	1.005	40.7004
PCB-104	1.28e+08	1.59	y	1.467	32:42	1.001	0.996	1.006	43.7720
PCB-96	*	*	n	1.290	NotFnd	*	1.034	1.044	*
PCB-103	*	*	n	1.186	NotFnd	*	1.051	1.061	*
PCB-100	*	*	n	1.178	NotFnd	*	1.061	1.071	*
PCB-94	*	*	n	1.252	NotFnd	*	0.981	0.991	*
PCB-95/98/102	9.24e+07	1.60	y	1.402	35:52	1.001	0.994	1.004	42.1077
PCB-93	9.24e+07	1.60	y	1.178	35:52	1.001	0.998	1.008	50.0990
PCB-88/91	*	*	n	1.320	NotFnd	*	1.006	1.016	*
PCB-121	*	*	n	1.892	NotFnd	*	1.009	1.019	*
PCB-84/92	*	*	n	1.298	NotFnd	*	0.985	0.995	*
PCB-89	*	*	n	1.227	NotFnd	*	0.990	1.000	*

2nd source for toxic/WD
70-130 is 35-65 - all within

Integrations by Analyst: MJ
Date: 3/24/17

Reviewed by Analyst: _____
Date: _____

Client ID: PCB SSS 17C1025 Filename: 170313E2 S:8 Acq:13-MAR-17 11:40:39 ConCal: NA

Lab ID: SS170313E2-1 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL UCL	Conc
	PCB-90/101	1.02e+08	1.60	y	1.47	37:33	1.001	0.995-1.005	44.4426
	PCB-113	*	*	n	1.65	NotFnd	*	1.001-1.011	*
	PCB-99	1.04e+08	1.59	y	1.48	37:52	1.009	1.004-1.014	44.8999
	PCB-119	*	*	n	2.25	NotFnd	*	0.982-0.992	*
	PCB-108/112	*	*	n	1.71	NotFnd	*	0.986-0.996	*
	PCB-83	*	*	n	2.05	NotFnd	*	0.990-1.000	*
	PCB-97	*	*	n	1.56	NotFnd	*	0.995-1.005	*
	PCB-86	*	*	n	1.20	NotFnd	*	0.999-1.009	*
	B-87/117/125	8.85e+07	1.61	y	1.91	39:07	1.007	1.002-1.012	34.3223
	PCB-111/115	1.20e+08	1.62	y	2.24	39:16	1.011	1.006-1.016	39.7963
	PCB-85/116	*	*	n	1.66	NotFnd	*	1.010-1.020	*
	PCB-120	*	*	n	2.43	NotFnd	*	1.016-1.026	*
	PCB-110	1.23e+08	1.59	y	1.98	39:47	1.025	1.019-1.029	45.9920
	PCB-82	*	*	n	0.91	NotFnd	*	0.971-0.981	*
	PCB-124	*	*	n	1.59	NotFnd	*	0.988-0.998	*
	PCB-107/109	*	*	n	1.58	NotFnd	*	0.991-1.001	*
	PCB-123	1.23e+08	1.61	y	1.58	41:25	1.001	0.996-1.006	42.4625
-	PCB-106/118	1.30e+08	1.59	y	1.57	41:35	1.000	0.996-1.006	43.5423
-	PCB-114	1.25e+08	1.53	y	1.18	42:14	1.000	0.995-1.005	38.5989
	PCB-122	*	*	n	1.07	NotFnd	*	0.999-1.009	*
	PCB-105	1.25e+08	1.53	y	1.23	43:06	1.000	0.995-1.005	38.3178
	PCB-127	*	*	n	1.03	NotFnd	*	0.995-1.005	*
	PCB-126	1.33e+08	1.55	y	1.12	45:20	1.000	0.995-1.005	44.8159
	PCB-155	8.79e+07	1.28	y	1.31	37:04	1.000	0.966-1.006	44.3422
	PCB-150	*	*	n	1.22	NotFnd	*	1.030-1.040	*
	PCB-152	*	*	n	1.24	NotFnd	*	1.042-1.052	*
	PCB-145	*	*	n	1.20	NotFnd	*	1.054-1.064	*
	PCB-136	*	*	n	1.28	NotFnd	*	1.063-1.073	*
	PCB-148	*	*	n	0.91	NotFnd	*	1.066-1.076	*
	PCB-154	*	*	n	1.00	NotFnd	*	1.079-1.089	*
	PCB-151	*	*	n	0.92	NotFnd	*	1.097-1.107	*
	PCB-135	*	*	n	0.88	NotFnd	*	1.101-1.113	*
	PCB-144	*	*	n	0.98	NotFnd	*	1.105-1.116	*
	PCB-147	*	*	n	0.87	NotFnd	*	1.108-1.120	*
	PCB-139/149	6.16e+07	1.28	y	0.98	41:31	1.120	1.115-1.127	41.4983
-	PCB-140	*	*	n	0.89	NotFnd	*	1.120-1.132	*
-	PCB-134/143	*	*	n	0.95	NotFnd	*	0.970-0.980	*

Name	Resp	RA		RRF	RT	RRT	LCL UCL	Conc
PCB-131/133	*	*	n	0.94	NotFnd	*	0.977-0.987	*
PCB-142	*	*	n	0.91	NotFnd	*	0.981-0.991	*
PCB-146/165	*	*	n	1.18	NotFnd	*	0.986-0.996	*
PCB-132/161	*	*	n	1.17	NotFnd	*	0.992-1.002	*
PCB-153	1.64e+08	1.25	y	1.21	43:15	1.000	0.995-1.005	42.4717
PCB-168	*	*	n	1.46	NotFnd	*	1.000-1.010	*
PCB-141	*	*	n	1.30	NotFnd	*	0.996-1.006	*
PCB-137	*	*	n	1.32	NotFnd	*	1.004-1.014	*
PCB-130	*	*	n	1.07	NotFnd	*	1.007-1.017	*
PCB-138/163/164	1.44e+08	1.24	y	1.43	44:50	1.001	0.996-1.006	36.1102
PCB-158/160	*	*	n	1.57	NotFnd	*	1.001-1.011	*
PCB-129	*	*	n	1.05	NotFnd	*	1.007-1.017	*
PCB-166	*	*	n	1.31	NotFnd	*	0.988-0.998	*
PCB-159	*	*	n	1.42	NotFnd	*	0.995-1.005	*
PCB-128/162	1.82e+08	1.24	y	1.15	46:25	1.007	1.002-1.012	46.8726
PCB-167	2.00e+08	1.24	y	1.32	46:48	1.000	0.995-1.005	43.2985
PCB-156	1.80e+08	1.25	y	1.38	48:05	1.000	0.995-1.005	38.5689
PCB-157	2.05e+08	1.25	y	1.38	48:21	1.000	0.995-1.005	42.8080
PCB-169	1.98e+08	1.25	y	1.27	50:33	1.000	0.995-1.005	43.1176
PCB-188	1.52e+08	1.07	y	1.78	42:53	1.000	0.996-1.006	42.9529
PCB-184	*	*	n	1.63	NotFnd	*	1.006-1.016	*
PCB-179	*	*	n	1.63	NotFnd	*	1.024-1.034	*
PCB-176	*	*	n	1.77	NotFnd	*	1.035-1.045	*
PCB-186	*	*	n	1.77	NotFnd	*	1.049-1.059	*
PCB-178	1.06e+08	1.06	y	1.28	45:41	1.066	1.061-1.071	41.5017
PCB-175	*	*	n	1.30	NotFnd	*	1.069-1.079	*
PCB-182/187	1.16e+08	1.07	y	1.41	46:11	1.077	1.073-1.083	41.5566
PCB-183	*	*	n	1.51	NotFnd	*	1.080-1.090	*
PCB-185	*	*	n	1.78	NotFnd	*	0.951-0.961	*
PCB-174	1.02e+08	1.07	y	1.70	47:32	0.963	0.958-0.968	43.0526
PCB-181	*	*	n	1.80	NotFnd	*	0.960-0.970	*
PCB-177	*	*	n	1.59	NotFnd	*	0.964-0.974	*
PCB-171	*	*	n	1.84	NotFnd	*	0.969-0.979	*
PCB-173	*	*	n	1.50	NotFnd	*	0.978-0.988	*
PCB-172	*	*	n	1.77	NotFnd	*	0.987-0.997	*
PCB-192	*	*	n	2.29	NotFnd	*	0.991-1.001	*
PCB-180	1.23e+08	1.07	y	1.82	49:23	1.000	0.995-1.005	48.7255

Integrations by Analyst: MJ

Date: 3/24/17

Client ID: PCB SSS 17C1025 Filename: 170313E2 S:8 Acq:13-MAR-17 11:40:39 ConCal: NA

Lab ID: SS170313E2-1 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL UCL	Conc
PCB-193	*	*	n	2.38	NotFnd	*	0.999-1.009	*
PCB-191	*	*	n	2.44	NotFnd	*	1.005-1.015	*
PCB-170	1.01e+08	1.08	y	1.96	50:56	1.000	0.995-1.005	42.2541
PCB-190	*	*	n	2.72	NotFnd	*	0.999-1.009	*
PCB-189	1.37e+08	1.08	y	1.97	52:29	1.000	0.995-1.005	41.5215
PCB-202	8.10e+07	0.91	y	1.29	48:19	1.001	0.995-1.005	48.1847
PCB-201	*	*	n	1.40	NotFnd	*	1.005-1.015	*
PCB-204	*	*	n	1.32	NotFnd	*	1.009-1.019	*
PCB-197	*	*	n	1.48	NotFnd	*	1.015-1.025	*
PCB-200	8.05e+07	0.91	y	1.38	50:09	1.039	1.034-1.044	44.9404
PCB-198	*	*	n	1.02	NotFnd	*	1.063-1.073	*
PCB-199	*	*	n	0.94	NotFnd	*	1.065-1.075	*
- PCB-196/203	6.25e+07	0.92	y	1.07	51:57	1.076	1.071-1.081	45.1023
- PCB-195	8.07e+07	0.86	y	1.01	53:09	0.984	0.979-0.989	43.8919
PCB-194	8.53e+07	0.87	y	1.11	54:02	1.000	0.995-1.005	42.2117
PCB-205	1.09e+08	0.87	y	1.43	54:18	1.005	1.000-1.010	41.7981
PCB-208	1.38e+08	1.33	y	1.16	53:18	1.000	0.995-1.005	39.1712
PCB-207	*	*	n	1.18	NotFnd	*	1.001-1.011	*
PCB-206	1.00e+08	1.32	y	0.98	55:37	1.000	0.995-1.005	43.8335
PCB-209	1.29e+08	1.19	y	1.56	56:59	1.000	0.995-1.005	39.1848

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	9.02e+08	3.07	y	16:06	1.33	192.963	
Total Di-PCB	2.49e+09	1.54	y	20:06	1.05	627.282	
Total Tri-PCB	2.74e+08	1.04	y	24:14	1.54	89.4804	
Total Tri-PCB	6.08e+08	1.13	y	29:00	0.94	201.186	Sum:290.667
Total Tetra-PCB	2.14e+09	0.78	y	27:59	1.25	516.879	
Total Penta-PCB	1.01e+09	1.59	y	32:42	1.47	389.329	
Total Penta-PCB	3.84e+08	1.53	y	42:14	1.13	121.733	Sum:511.062
Total Hexa-PCB	1.50e+08	1.28	y	37:04	1.05	85.8406	
Total Hexa-PCB	1.27e+09	1.25	y	43:15	1.23	293.248	Sum:379.088
Total Hepta-PCB	8.37e+08	1.07	y	42:53	1.72	301.565	
Total Octa-PCB	2.24e+08	0.91	y	48:19	1.22	138.227	
Total Octa-PCB	2.82e+08	0.86	y	53:09	1.18	131.072	Sum:269.299
Total Nona-PCB	2.39e+08	1.33	y	53:18	1.12	83.0048	
Total Deca-PCB	1.29e+08	1.19	y	56:59	1.56	39.1848	

Total PCB Conc:3288.18718700

Integrations by Analyst: MI

Date: 3/24/17

Client ID: PCB SSS 17C1025 Filename: 170313E2 S:8 Acq:13-MAR-17 11:40:39 ConCal: NA

Lab ID: SS170313E2-1 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-1	3.29e+08	3.24 y	0.70	16:05	0.620	0.617-0.623	104	104
13C-PCB-3	3.67e+08	3.25 y	0.79	18:42	0.721	0.717-0.725	104	104
13C-PCB-4	2.42e+08	1.57 y	0.54	20:03	0.773	0.769-0.777	100	100
13C-PCB-9	3.96e+08	1.54 y	0.89	21:51	0.842	0.838-0.846	99.3	99.3
13C-PCB-11	4.15e+08	1.52 y	0.93	25:14	0.973	0.968-0.978	99.3	99.3
13C-PCB-19	1.92e+08	1.09 y	0.41	24:13	0.933	0.928-0.938	105	105
13C-PCB-28	3.34e+08	1.01 y	1.04	29:06	1.004	0.999-1.009	113	113
13C-PCB-32	2.92e+08	1.08 y	0.63	27:08	1.046	1.041-1.051	104	104
13C-PCB-37	3.14e+08	1.02 y	1.00	32:59	1.137	1.132-1.144	111	111
13C-PCB-47	2.83e+08	0.79 y	0.80	32:02	0.871	0.867-0.875	102	102
13C-PCB-52	2.57e+08	0.79 y	0.74	31:31	0.857	0.853-0.861	100.0	100.0
13C-PCB-54	3.40e+08	0.81 y	0.94	27:58	0.760	0.757-0.765	105	105
13C-PCB-70	3.49e+08	0.81 y	0.99	35:32	0.966	0.961-0.971	101	101
13C-PCB-77	3.37e+08	0.80 y	0.97	39:40	1.078	1.073-1.083	100	100
13C-PCB-80	3.43e+08	0.82 y	1.01	35:58	0.978	0.973-0.983	98.0	98.0
13C-PCB-81	3.55e+08	0.79 y	1.01	39:04	1.062	1.057-1.067	101	101
13C-PCB-95	1.57e+08	1.63 y	0.80	35:50	0.913	0.908-0.918	101	101
13C-PCB-97	1.35e+08	1.61 y	0.70	38:50	0.989	0.984-0.994	100	100
13C-PCB-101	1.56e+08	1.65 y	0.81	37:32	0.956	0.951-0.961	101	101
13C-PCB-104	1.99e+08	1.61 y	1.01	32:40	0.832	0.828-0.836	103	103
13C-PCB-105	2.67e+08	1.54 y	1.18	43:05	0.929	0.924-0.934	93.8	93.8
13C-PCB-114	2.74e+08	1.55 y	1.18	42:14	0.911	0.905-0.915	95.8	95.8
13C-PCB-118	1.90e+08	1.64 y	0.99	41:34	1.059	1.054-1.064	99.3	99.3
13C-PCB-123	1.83e+08	1.62 y	0.94	41:23	1.054	1.049-1.059	101	101
13C-PCB-126	2.65e+08	1.54 y	1.17	45:20	0.977	0.972-0.982	94.2	94.2
13C-PCB-127	2.84e+08	1.54 y	1.26	43:25	0.936	0.931-0.941	93.1	93.1
13C-PCB-138	2.79e+08	1.29 y	1.15	44:49	0.966	0.961-0.971	100	100
13C-PCB-141	2.69e+08	1.30 y	1.11	43:59	0.948	0.943-0.953	101	101
13C-PCB-153	3.20e+08	1.26 y	1.32	43:15	0.933	0.927-0.937	101	101
13C-PCB-155	1.51e+08	1.29 y	0.76	37:04	0.944	0.939-0.949	103	103
13C-PCB-156	3.38e+08	1.28 y	1.40	48:05	1.037	1.032-1.042	99.9	99.9
13C-PCB-157	3.46e+08	1.29 y	1.40	48:21	1.043	1.038-1.048	103	103
13C-PCB-159	3.37e+08	1.28 y	1.39	46:06	0.994	0.989-0.999	100	100
13C-PCB-167	3.48e+08	1.28 y	1.41	46:47	1.009	1.004-1.014	102	102
13C-PCB-169	3.62e+08	1.28 y	1.38	50:33	1.090	1.085-1.095	109	109
13C-PCB-170	1.22e+08	0.47 y	0.83	50:55	1.102	1.097-1.107	104	104
13C-PCB-180	1.39e+08	0.47 y	0.96	49:22	1.068	1.063-1.073	102	102
13C-PCB-188	1.99e+08	0.47 y	1.36	42:52	0.928	0.923-0.933	104	104
13C-PCB-189	1.68e+08	0.47 y	1.16	52:29	1.136	1.130-1.142	103	103
13C-PCB-194	1.82e+08	0.89 y	0.74	54:01	0.995	0.990-1.000	99.9	99.9
13C-PCB-202	1.30e+08	0.95 y	0.95	48:17	1.045	1.040-1.050	97.2	97.2
13C-PCB-206	2.33e+08	0.79 y	0.91	55:37	1.024	1.019-1.029	103	103
13C-PCB-208	3.06e+08	0.78 y	1.19	53:17	0.982	0.977-0.987	104	104
13C-PCB-209	2.11e+08	1.23 y	0.80	56:58	1.049	1.044-1.054	107	107

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-79	3.65e+08	0.80 y	1.02	37:51	1.029	1.024-1.033	103	103
13C-PCB-178	1.30e+08	0.45 y	0.90	45:40	0.985	0.980-0.989	102	102

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-79	3.65e+08	0.80 y	1.01	37:51	0.969	0.963-0.973	102	102
13C-PCB-178	1.30e+08	0.45 y	0.94	45:40	0.925	0.920-0.930	100	100

RS

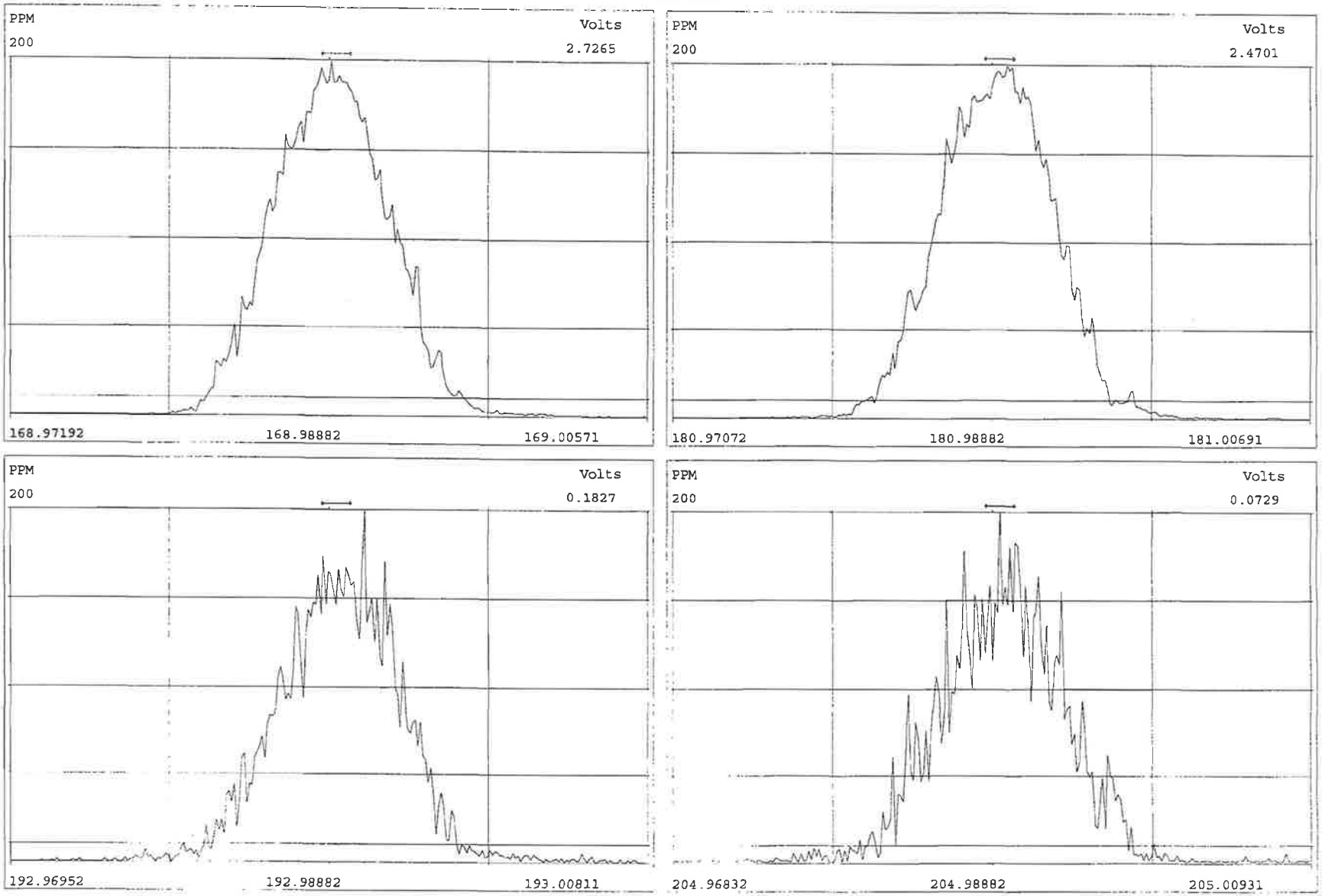
Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	4.48e+08	1.54 y	1.00	25:57	100
13C-PCB-31	2.84e+08	1.00 y	1.00	28:60	100
13C-PCB-60	3.46e+08	0.79 y	1.00	36:47	100
13C-PCB-111	1.93e+08	1.59 y	1.00	39:16	100
13C-PCB-128	2.41e+08	1.27 y	1.00	46:22	100
13C-PCB-182	1.41e+08	0.47 y	1.00	46:12	100
13C-PCB-205	2.48e+08	0.89 y	1.00	54:17	100

Analyst: MJ

Date: 3/24/17

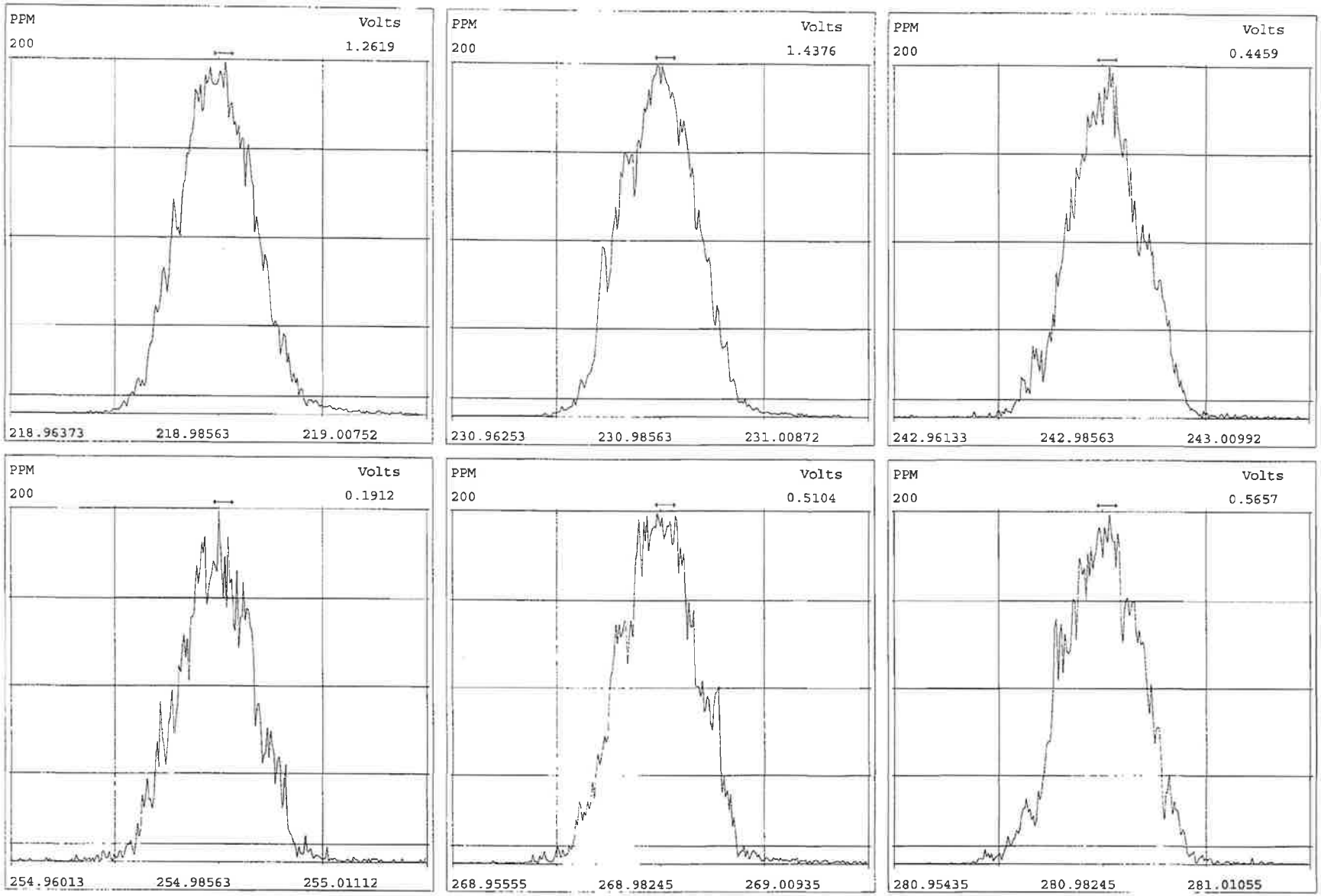
Peak Locate Examination:13-MAR-2017:04:05 File:170313E2

Experiment:PCB_ZB1 Function:1 Reference:PFK



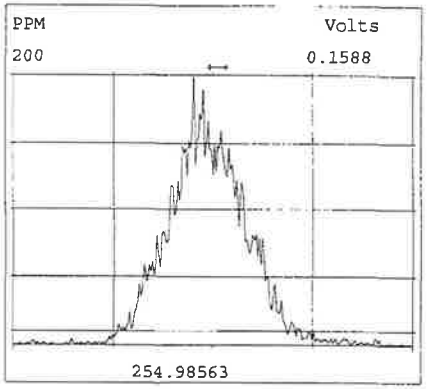
Peak Locate Examination:13-MAR-2017:04:05 File:170313E2

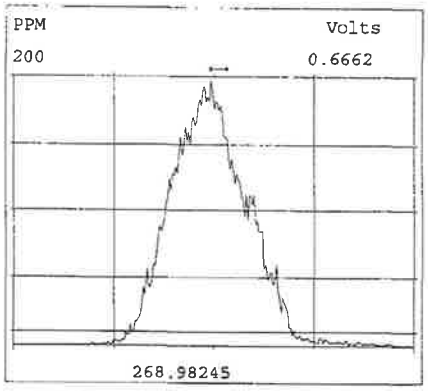
Experiment:PCB_ZB1 Function:2 Reference:PFK

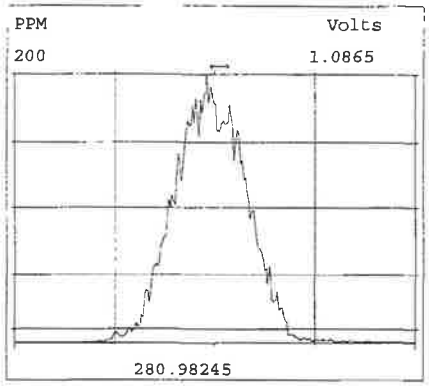


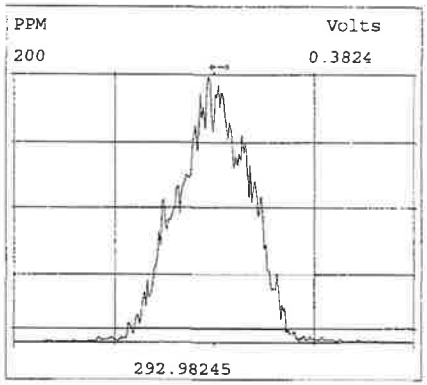
Peak Locate Examination:13-MAR-2017:04:05 File:170313E2

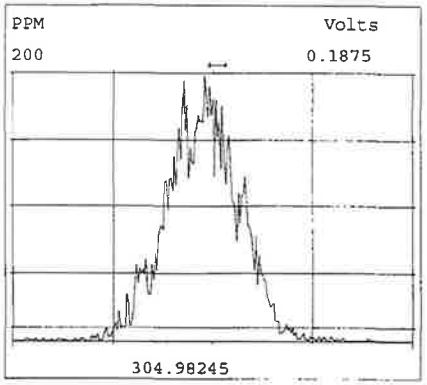
Experiment:PCB_ZB1 Function:3 Reference:PFK

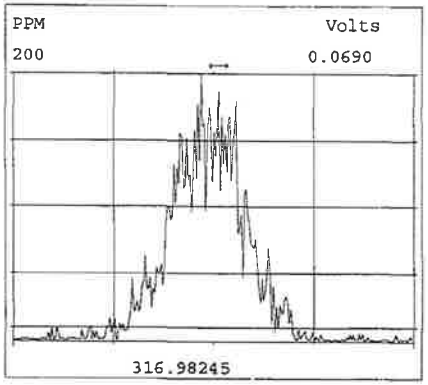


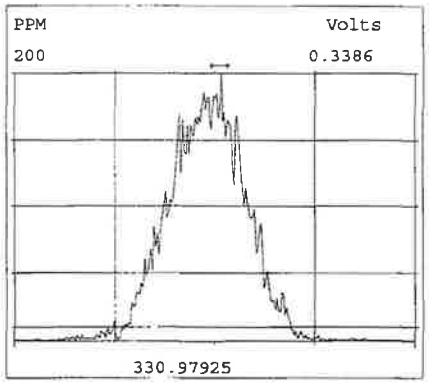


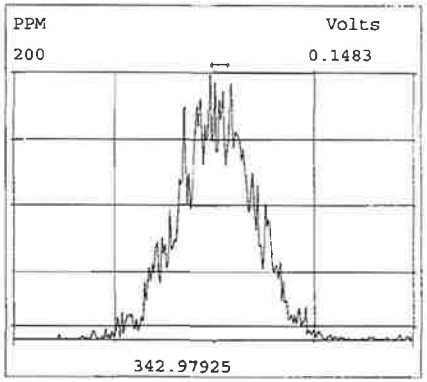


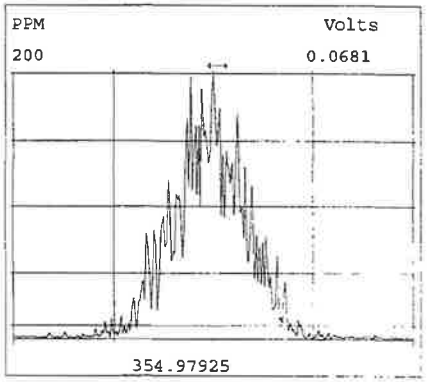


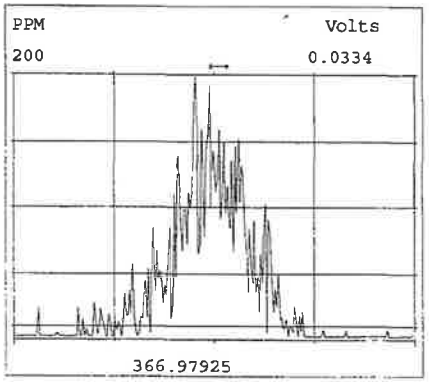


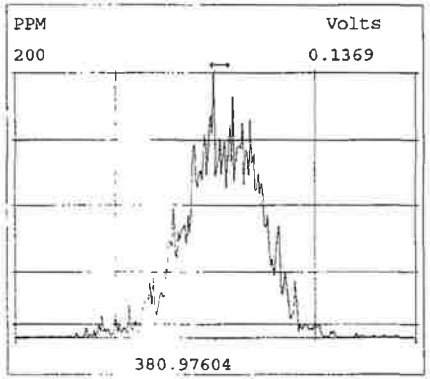






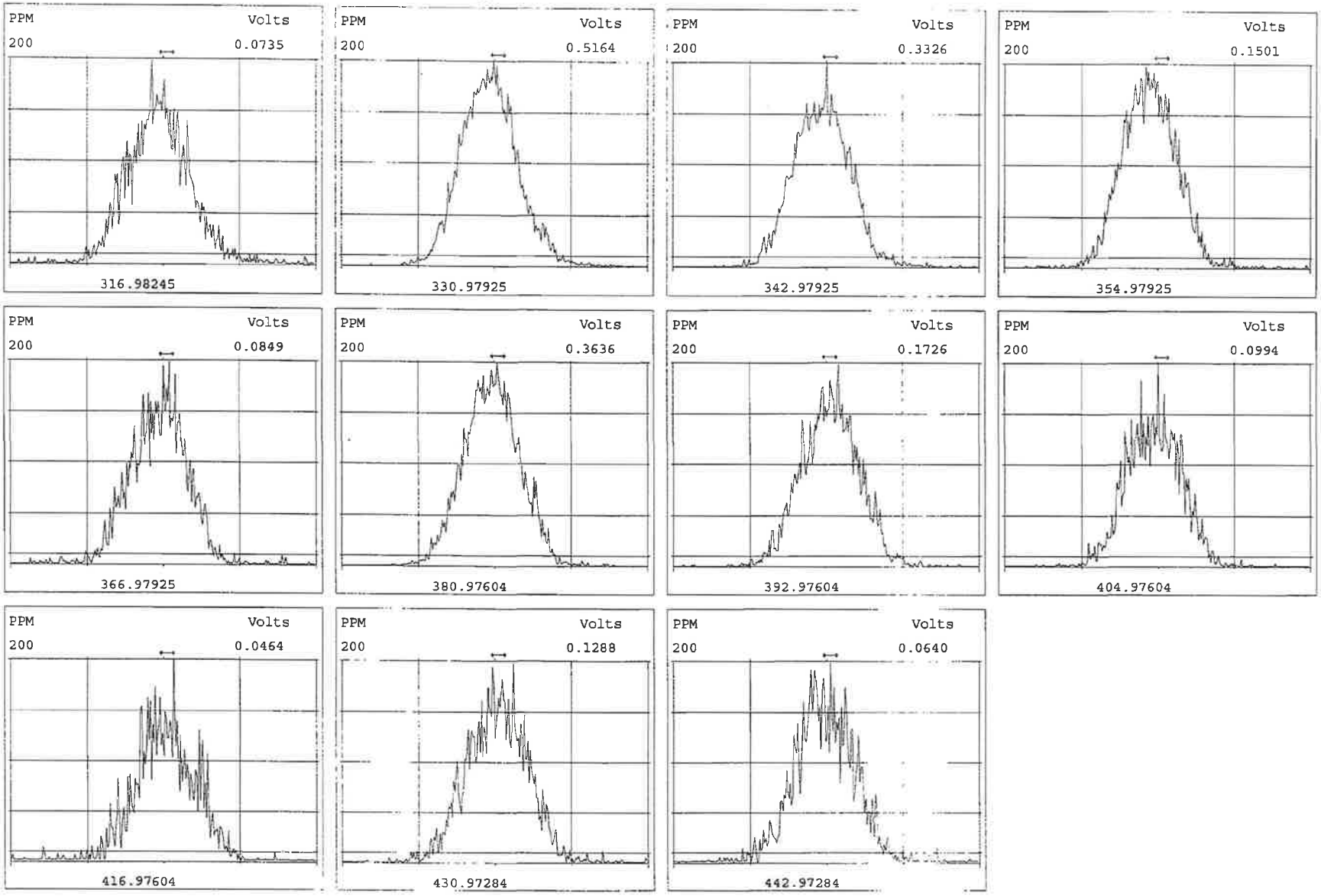






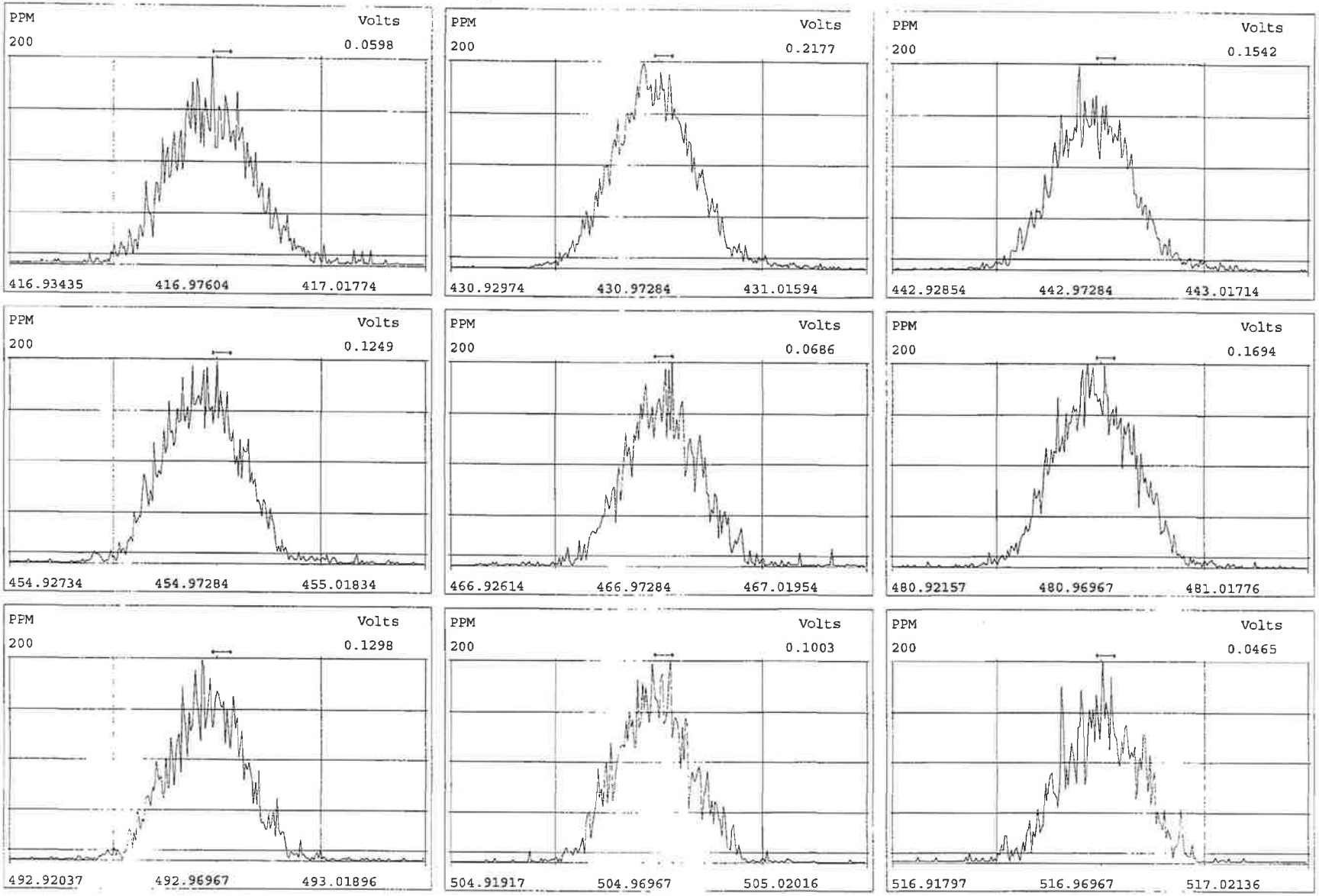
Peak Locate Examination:13-MAR-2017:04:06 File:170313E2

Experiment:PCB_ZB1 Function:4 Reference:PFK



Peak Locate Examination:13-MAR-2017:04:06 File:170313E2

Experiment:PCB_ZB1 Function:5 Reference:PFK



Vista Analytical Laboratory - Injection Log Run file: 170731E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
170731E1	1	ST170731E1-1	MAS	31-JUL-17	13:08:34	ST170731E1-1	NA
170731E1	2	B7G0116-BS1	MAS	31-JUL-17	14:13:41	ST170731E1-1	NA
170731E1	3	SOLVENT BLANK	MAS	31-JUL-17	15:18:48	ST170731E1-1	NA
170731E1	4	B7G0116-BLK1	MAS	31-JUL-17	16:23:55	ST170731E1-1	NA
170731E1	5	1700918-01	MAS	31-JUL-17	17:29:02	ST170731E1-1	NA
170731E1	6	1700918-02	MAS	31-JUL-17	18:34:11	ST170731E1-1	NA
170731E1	7	1700918-03	MAS	31-JUL-17	19:39:17	ST170731E1-1	NA
170731E1	8	1700918-04	MAS	31-JUL-17	20:44:26	ST170731E1-1	NA
170731E1	9	1700918-05	MAS	31-JUL-17	21:49:33	ST170731E1-1	NA
170731E1	10	1700918-06	MAS	31-JUL-17	22:54:39	ST170731E1-1	NA
170731E1	11	1700918-07	MAS	31-JUL-17	23:59:44	ST170731E1-1	NA
170731E1	12	SOLVENT BLANK	MAS	1-AUG-17	01:04:52	ST170731E1-1	NA

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST170731E1-1 Instrument ID: VG-8

Initial Calibration Date: 3-13-17 ICal ID: PCBVG8-3-13-17 GC Column ID: ZB-1

VER Data Filename: 170731E1 S#1 Analysis Date: 31-JUL-17 Time: 13:08:34

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	3.03	2.66-3.60	y	43.6	37.5-62.5
PCB-2	3.07	2.66-3.60	y	43.1	37.5-62.5
PCB-3	3.04	2.66-3.60	y	43.2	37.5-62.5
PCB-4/10	1.58	1.33-1.79	y	105.6	75-125
PCB-7/9	1.59	1.33-1.79	y	108.3	75-125
PCB-6	1.61	1.33-1.79	y	53.8	37.5-62.5
PCB-5/8	1.61	1.33-1.79	y	106.7	75-125
PCB-14	1.60	1.33-1.79	y	55.5	37.5-62.5
PCB-11	1.62	1.33-1.79	y	53.9	37.5-62.5
PCB-12/13	1.59	1.33-1.79	y	107.3	75-125
PCB-15	1.60	1.33-1.79	y	52.8	37.5-62.5
PCB-19	1.06	0.88-1.20	y	39.9	37.5-62.5
PCB-30	1.05	0.88-1.20	y	38.9	37.5-62.5
PCB-18	1.04	0.88-1.20	y	43.7	37.5-62.5
PCB-17	1.03	0.88-1.20	y	44.0	37.5-62.5
PCB-24/27	1.04	0.88-1.20	y	84.5	75.0-125
PCB-16/32	1.04	0.88-1.20	y	80.7	75.0-125
PCB-34	0.98	0.88-1.20	y	53.1	37.5-62.5
PCB-23	1.05	0.88-1.20	y	51.1	37.5-62.5
PCB-29	1.04	0.88-1.20	y	55.3	37.5-62.5
PCB-26	1.02	0.88-1.20	y	48.0	37.5-62.5
PCB-25	1.01	0.88-1.20	y	52.0	37.5-62.5
PCB-31	1.00	0.88-1.20	y	52.9	37.5-62.5
PCB-28	1.02	0.88-1.20	y	57.2	37.5-62.5
PCB-20/21/33	1.02	0.88-1.20	y	161.9	112.5-225
PCB-22	1.01	0.88-1.20	y	53.9	37.5-62.5
PCB-36	1.00	0.88-1.20	y	58.0	37.5-62.5
PCB-39	1.00	0.88-1.20	y	54.1	37.5-62.5
PCB-38	1.00	0.88-1.20	y	54.2	37.5-62.5
PCB-35	1.02	0.88-1.20	y	57.4	37.5-62.5
PCB-37	1.04	0.88-1.20	y	56.3	37.5-62.5
PCB-54	0.79	0.65-0.89	y	43.4	37.5-62.5
PCB-50	0.78	0.65-0.89	y	46.2	37.5-62.5
PCB-53	0.78	0.65-0.89	y	44.0	37.5-62.5
PCB-51	0.77	0.65-0.89	y	43.4	37.5-62.5
PCB-45	0.78	0.65-0.89	y	45.8	37.5-62.5
PCB-46	0.77	0.65-0.89	y	45.9	37.5-62.5

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-52/69	0.78	0.65-0.89	y	85.3	75.0-125
PCB-73	0.79	0.65-0.89	y	43.3	37.5-62.5
PCB-43/49	0.78	0.65-0.89	y	86.4	75.0-125
PCB-47	0.78	0.65-0.89	y	45.9	37.5-62.5
PCB-48/75	0.78	0.65-0.89	y	85.2	75.0-125
PCB-65	0.77	0.65-0.89	y	46.6	37.5-62.5
PCB-62	0.79	0.65-0.89	y	43.5	37.5-62.5
PCB-44	0.79	0.65-0.89	y	44.8	37.5-62.5
PCB-42/59	0.78	0.65-0.89	y	86.9	75.0-125
PCB-41/64/71/72	0.78	0.65-0.89	y	179.6	150-250
PCB-68	0.78	0.65-0.89	y	44.6	37.5-62.5
PCB-40	0.78	0.65-0.89	y	43.7	37.5-62.5
PCB-57	0.76	0.65-0.89	y	45.8	37.5-62.5
PCB-67	0.78	0.65-0.89	y	40.8	37.5-62.5
PCB-58	0.78	0.65-0.89	y	46.6	37.5-62.5
PCB-63	0.79	0.65-0.89	y	42.9	37.5-62.5
PCB-74	0.78	0.65-0.89	y	41.6	37.5-62.5
PCB-61/70	0.79	0.65-0.89	y	87.2	75.0-125
PCB-76/66	0.78	0.65-0.89	y	88.0	75.0-125
PCB-80	0.79	0.65-0.89	y	42.6	37.5-62.5
PCB-55	0.78	0.65-0.89	y	42.7	37.5-62.5
PCB-56/60	0.79	0.65-0.89	y	84.8	75.0-125
PCB-79	0.78	0.65-0.89	y	42.6	37.5-62.5
PCB-78	0.78	0.65-0.89	y	42.5	37.5-62.5
PCB-81	0.78	0.65-0.89	y	42.3	37.5-62.5
PCB-77	0.79	0.65-0.89	y	43.5	37.5-62.5
PCB-104	1.60	1.32-1.78	y	42.1	37.5-62.5
PCB-96	1.59	1.32-1.78	y	42.1	37.5-62.5
PCB-103	1.57	1.32-1.78	y	41.6	37.5-62.5
PCB-100	1.57	1.32-1.78	y	41.6	37.5-62.5
PCB-94	1.59	1.32-1.78	y	40.7	37.5-62.5
PCB-95/98/102	1.56	1.32-1.78	y	120.7	112.5-225
PCB-93	1.65	1.32-1.78	y	43.7	37.5-62.5
PCB-88/91	1.57	1.32-1.78	y	80.6	75.0-125
PCB-121	1.58	1.32-1.78	y	42.2	37.5-62.5

Analyst: MM

Date: 8/1/17

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST170731E1-1 Instrument ID: VG-8

Initial Calibration Date: 3-13-17 ICal ID: PCBVG8-3-13-17 GC Column ID: ZB-1

VER Data Filename: 170731E1 S#1 Analysis Date: 31-JUL-17 Time: 13:08:34

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.58	1.32-1.78	y	83.4	75.0-125
PCB-89	1.60	1.32-1.78	y	41.8	37.5-62.5
PCB-90/101	1.59	1.32-1.78	y	82.7	75.0-125
PCB-113	1.56	1.32-1.78	y	42.4	37.5-62.5
PCB-99	1.60	1.32-1.78	y	40.8	37.5-62.5
PCB-119	1.58	1.32-1.78	y	40.5	37.5-62.5
PCB-108/112	1.57	1.32-1.78	y	82.2	75.0-125
PCB-83	1.59	1.32-1.78	y	41.9	37.5-62.5
PCB-97	1.58	1.32-1.78	y	41.2	37.5-62.5
PCB-86	1.60	1.32-1.78	y	41.6	37.5-62.5
PCB-87/117/125	1.57	1.32-1.78	y	123.4	112.5-225
PCB-111/115	1.60	1.32-1.78	y	85.7	75.0-125
PCB-85/116	1.57	1.32-1.78	y	80.6	75.0-125
PCB-120	1.57	1.32-1.78	y	40.8	37.5-62.5
PCB-110	1.56	1.32-1.78	y	41.6	37.5-62.5
PCB-82	1.56	1.32-1.78	y	42.0	37.5-62.5
PCB-124	1.56	1.32-1.78	y	38.9	37.5-62.5
PCB-107/109	1.59	1.32-1.78	y	83.0	75.0-125
PCB-123	1.55	1.32-1.78	y	39.9	37.5-62.5
PCB-106/118	1.57	1.32-1.78	y	81.4	75.0-125
PCB-114	1.57	1.32-1.78	y	56.4	37.5-62.5
PCB-122	1.59	1.32-1.78	y	54.4	37.5-62.5
PCB-105	1.54	1.32-1.78	y	55.0	37.5-62.5
PCB-127	1.59	1.32-1.78	y	54.7	37.5-62.5
PCB-126	1.60	1.32-1.78	y	55.8	37.5-62.5
PCB-155	1.25	1.05-1.43	y	44.8	37.5-62.5
PCB-150	1.24	1.05-1.43	y	45.1	37.5-62.5
PCB-152	1.26	1.05-1.43	y	44.5	37.5-62.5
PCB-145	1.23	1.05-1.43	y	45.0	37.5-62.5
PCB-136	1.25	1.05-1.43	y	44.5	37.5-62.5
PCB-148	1.26	1.05-1.43	y	45.6	37.5-62.5
PCB-154	1.24	1.05-1.43	y	45.8	37.5-62.5
PCB-151	1.24	1.05-1.43	y	46.9	37.5-62.5
PCB-135	1.24	1.05-1.43	y	44.8	37.5-62.5
PCB-144	1.25	1.05-1.43	y	47.8	37.5-62.5
PCB-147	1.28	1.05-1.43	y	45.4	37.5-62.5
PCB-139/149	1.25	1.05-1.43	y	91.0	75.0-125

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-140	1.26	1.05-1.43	y	47.2	37.5-62.5
PCB-134/143	1.25	1.05-1.43	y	91.5	75.0-125
PCB-131/133	1.27	1.05-1.43	y	93.9	75.0-125
PCB-142	1.19	1.05-1.43	y	46.3	37.5-62.5
PCB-146/165	1.24	1.05-1.43	y	90.8	75.0-125
PCB-132/161	1.25	1.05-1.43	y	91.7	75.0-125
PCB-153	1.26	1.05-1.43	y	45.0	37.5-62.5
PCB-168	1.26	1.05-1.43	y	45.7	37.5-62.5
PCB-141	1.23	1.05-1.43	y	45.5	37.5-62.5
PCB-137	1.24	1.05-1.43	y	44.2	37.5-62.5
PCB-130	1.28	1.05-1.43	y	50.9	37.5-62.5
PCB-138/163/164	1.25	1.05-1.43	y	138.4	112.5-225
PCB-158/160	1.24	1.05-1.43	y	91.4	75.0-125
PCB-129	1.26	1.05-1.43	y	46.0	37.5-62.5
PCB-166	1.28	1.05-1.43	y	46.2	37.5-62.5
PCB-159	1.28	1.05-1.43	y	45.2	37.5-62.5
PCB-128/162	1.26	1.05-1.43	y	93.3	75.0-125
PCB-167	1.27	1.05-1.43	y	45.3	37.5-62.5
PCB-156	1.27	1.05-1.43	y	46.0	37.5-62.5
PCB-157	1.24	1.05-1.43	y	46.0	37.5-62.5
PCB-169	1.26	1.05-1.43	y	46.6	37.5-62.5
PCB-188	1.03	0.89-1.21	y	43.2	37.5-62.5
PCB-184	1.06	0.89-1.21	y	42.6	37.5-62.5
PCB-179	1.06	0.89-1.21	y	44.4	37.5-62.5
PCB-176	1.05	0.89-1.21	y	43.4	37.5-62.5
PCB-186	1.04	0.89-1.21	y	43.0	37.5-62.5
PCB-178	1.05	0.89-1.21	y	44.4	37.5-62.5
PCB-175	1.03	0.89-1.21	y	43.8	37.5-62.5
PCB-182/187	1.05	0.89-1.21	y	87.5	75.0-125
PCB-183	1.05	0.89-1.21	y	42.7	37.5-62.5
PCB-185	1.05	0.89-1.21	y	43.5	37.5-62.5
PCB-174	1.04	0.89-1.21	y	43.1	37.5-62.5
PCB-181	1.05	0.89-1.21	y	42.2	37.5-62.5
PCB-177	1.04	0.89-1.21	y	43.7	37.5-62.5
PCB-171	1.06	0.89-1.21	y	43.6	37.5-62.5
PCB-173	1.05	0.89-1.21	y	44.1	37.5-62.5
PCB-172	1.04	0.89-1.21	y	43.2	37.5-62.5

Analyst: MI

Date: 8/1/17

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST170731E1-1 Instrument ID: VG-8

Initial Calibration Date: 3-13-17 ICal ID: PCBVG8-3-13-17 GC Column ID: ZB-1

VER Data Filename: 170731E1 S#1 Analysis Date: 31-JUL-17 Time: 13:08:34

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.05	0.89-1.21	y	43.4	37.5-62.5
PCB-180	1.04	0.89-1.21	y	43.2	37.5-62.5
PCB-193	1.06	0.89-1.21	y	43.3	37.5-62.5
PCB-191	1.06	0.89-1.21	y	43.2	37.5-62.5
PCB-170	1.05	0.89-1.21	y	42.8	37.5-62.5
PCB-190	1.07	0.89-1.21	y	42.6	37.5-62.5
PCB-189	1.06	0.89-1.21	y	42.8	37.5-62.5
PCB-202	0.86	0.76-1.02	y	40.1	37.5-62.5
PCB-201	0.88	0.76-1.02	y	41.0	37.5-62.5
PCB-204	0.89	0.76-1.02	y	41.4	37.5-62.5
PCB-197	0.88	0.76-1.02	y	42.2	37.5-62.5
PCB-200	0.89	0.76-1.02	y	40.8	37.5-62.5
PCB-198	0.88	0.76-1.02	y	42.2	37.5-62.5
PCB-199	0.86	0.76-1.02	y	41.8	37.5-62.5
PCB-196/203	0.88	0.76-1.02	y	83.2	75.0-125
PCB-195	0.87	0.76-1.02	y	58.8	37.5-62.5
PCB-194	0.89	0.76-1.02	y	51.2	37.5-62.5
PCB-205	0.89	0.76-1.02	y	51.3	37.5-62.5
PCB-208	1.32	1.14-1.54	y	45.0	37.5-62.5
PCB-207	1.32	1.14-1.54	y	44.3	37.5-62.5
PCB-206	1.32	1.14-1.54	y	45.2	37.5-62.5
PCB-209	1.19	0.99-1.33	y	42.3	37.5-62.5

Analyst: [illegible]

Date: 8/1/17

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST170731E1-1 Instrument ID: VG-8

Initial Calibration Date: 3-13-17 ICal ID: PCBVG8-3-13-17 GC Column ID: ZB-1

VER Data Filename: 170731E1 S#1 Analysis Date: 31-JUL-17 Time: 13:08:34

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.09	2.66-3.60	y	113.1	50.0-145
13C-PCB-3	3.06	2.66-3.60	y	113.5	50.0-145
13C-PCB-4	1.56	1.33-1.79	y	109.6	50.0-145
13C-PCB-9	1.54	1.33-1.79	y	104.5	50.0-145
13C-PCB-11	1.56	1.33-1.79	y	102.6	50.0-145
13C-PCB-19	1.01	0.88-1.20	y	136.7	50.0-145
13C-PCB-32	1.04	0.88-1.20	y	118.0	50.0-145
13C-PCB-28	1.05	0.88-1.20	y	99.3	50.0-145
13C-PCB-37	1.06	0.88-1.20	y	102.6	50.0-145
13C-PCB-54	0.80	0.65-0.89	y	96.7	50.0-145
13C-PCB-52	0.81	0.65-0.89	y	100.8	50.0-145
13C-PCB-47	0.79	0.65-0.89	y	102.6	50.0-145
13C-PCB-70	0.81	0.65-0.89	y	98.2	50.0-145
13C-PCB-80	0.80	0.65-0.89	y	101.0	50.0-145
13C-PCB-81	0.81	0.65-0.89	y	102.2	50.0-145
13C-PCB-77	0.80	0.65-0.89	y	101.7	50.0-145
13C-PCB-104	1.58	1.32-1.78	y	95.6	50.0-145
13C-PCB-95	1.59	1.32-1.78	y	96.0	50.0-145
13C-PCB-101	1.61	1.32-1.78	y	95.7	50.0-145
13C-PCB-97	1.58	1.32-1.78	y	97.7	50.0-145
13C-PCB-123	1.62	1.32-1.78	y	100.5	50.0-145
13C-PCB-118	1.63	1.32-1.78	y	100.4	50.0-145
13C-PCB-114	1.58	1.32-1.78	y	93.3	50.0-145
13C-PCB-105	1.60	1.32-1.78	y	92.4	50.0-145
13C-PCB-127	1.57	1.32-1.78	y	92.9	50.0-145
13C-PCB-126	1.58	1.32-1.78	y	94.0	50.0-145
13C-PCB-155	1.24	1.05-1.43	y	122.3	50.0-145
13C-PCB-153	1.26	1.05-1.43	y	96.4	50.0-145
13C-PCB-141	1.28	1.05-1.43	y	95.4	50.0-145
13C-PCB-138	1.28	1.05-1.43	y	98.2	50.0-145
13C-PCB-159	1.28	1.05-1.43	y	97.7	50.0-145
13C-PCB-167	1.28	1.05-1.43	y	99.8	50.0-145
13C-PCB-156	1.29	1.05-1.43	y	96.6	50.0-145
13C-PCB-157	1.29	1.05-1.43	y	98.5	50.0-145

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-169	1.28	1.05-1.43	y	96.5	50 - 145
13C-PCB-188	0.46	0.38-0.52	y	97.5	50 - 145
13C-PCB-180	0.46	0.38-0.52	y	100.9	50 - 145
13C-PCB-170	0.46	0.38-0.52	y	103.2	50 - 145
13C-PCB-189	0.46	0.38-0.52	y	98.5	50 - 145
13C-PCB-202	0.92	0.76-1.02	y	142.4	50 - 145
13C-PCB-194	0.87	0.76-1.02	y	100.4	50 - 145
13C-PCB-208	0.78	0.65-0.89	y	112.9	50 - 145
13C-PCB-206	0.78	0.65-0.89	y	98.2	50 - 145
13C-PCB-209	1.21	0.99-1.33	y	99.6	50 - 145

CRS vs. RS

13C-PCB-79	0.79	0.65-0.89	y	100.7	75 - 125
13C-PCB-178	0.45	0.38-0.52	y	100.8	75 - 125

Analyst: MM

Date: 8/1/17

Client ID: PCB CS3 17C0311
Lab ID: ST170731E1-1

Filename: 170731E1 S:1 Acq:31-JUL-17 13:08:34 ConCal: ST170731E1-1
GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	1.12e+08	3.03 y	1.36	16:02	1.001	0.996	1.006	43.5905
PCB-2	1.19e+08	3.07 y	1.30	18:26	0.988	0.983	0.993	43.0585
PCB-3	1.21e+08	3.04 y	1.33	18:40	1.001	0.996	1.006	43.2279
PCB-4/10	1.96e+08	1.58 y	1.32	20:03	1.003	0.997	1.007	105.595
PCB-7/9	2.40e+08	1.59 y	1.00	21:50	0.867	0.864	0.871	108.322
PCB-6	1.17e+08	1.61 y	0.99	22:30	0.893	0.888	0.897	53.7949
PCB-5/8	2.43e+08	1.61 y	1.03	22:54	0.909	0.905	0.915	106.665
PCB-14	1.47e+08	1.60 y	1.16	24:01	0.953	0.948	0.958	55.5087
PCB-11	1.26e+08	1.62 y	1.03	25:13	1.001	0.996	1.006	53.9172
PCB-12/13	2.50e+08	1.59 y	1.03	25:36	1.016	1.011	1.021	107.276
PCB-15	1.40e+08	1.60 y	1.17	25:55	1.029	1.023	1.033	52.7999
PCB-19	8.00e+07	1.06 y	1.52	24:11	1.001	0.996	1.006	39.9305
PCB-30	1.29e+08	1.05 y	2.51	25:05	1.038	1.033	1.043	38.9475
PCB-18	8.53e+07	1.04 y	1.11	25:51	0.954	0.949	0.959	43.7236
PCB-17	9.37e+07	1.03 y	1.21	26:01	0.960	0.955	0.965	43.9843
PCB-24/27	2.40e+08	1.04 y	1.61	26:36	0.981	0.976	0.986	84.5207
- PCB-16/32	1.92e+08	1.04 y	1.35	27:06	1.000	0.995	1.005	80.6742
- PCB-34	9.02e+07	0.98 y	0.98	27:54	0.960	0.955	0.965	53.0849
PCB-23	8.31e+07	1.05 y	0.93	28:00	0.963	0.958	0.968	51.1117
PCB-29	9.34e+07	1.04 y	0.97	28:14	0.971	0.967	0.977	55.3022
PCB-26	8.04e+07	1.02 y	0.96	28:28	0.979	0.975	0.985	47.9967
PCB-25	7.87e+07	1.01 y	0.87	28:37	0.984	0.980	0.990	51.9590
PCB-31	9.18e+07	1.00 y	1.00	28:59	0.997	0.992	1.002	52.9381
PCB-28	9.28e+07	1.02 y	0.93	29:04	1.000	0.995	1.005	57.2040
PCB-20/21/33	2.49e+08	1.02 y	0.89	29:42	1.022	1.017	1.027	161.898
PCB-22	8.72e+07	1.01 y	0.93	30:08	1.037	1.032	1.042	53.9215
PCB-36	9.32e+07	1.00 y	0.94	30:46	0.934	0.929	0.939	57.9580
PCB-39	9.34e+07	1.00 y	1.01	31:14	0.948	0.943	0.953	54.0606
PCB-38	8.39e+07	1.00 y	0.90	32:01	0.972	0.966	0.976	54.1690
PCB-35	8.79e+07	1.02 y	0.89	32:31	0.987	0.982	0.992	57.4428
PCB-37	9.98e+07	1.04 y	1.03	32:57	1.000	0.995	1.005	56.3028
PCB-54	8.77e+07	0.79 y	1.17	27:57	1.001	0.996	1.006	43.4301
PCB-50	7.46e+07	0.78 y	0.94	29:08	1.043	1.038	1.048	46.2229
PCB-53	7.46e+07	0.78 y	1.19	29:46	0.945	0.941	0.951	43.9826
PCB-51	7.75e+07	0.77 y	1.25	30:07	0.956	0.952	0.962	43.3643
PCB-45	7.03e+07	0.78 y	1.08	30:33	0.970	0.966	0.976	45.8404
PCB-46	6.60e+07	0.77 y	1.01	31:03	0.986	0.981	0.991	45.9107

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	1.69e+08	0.78 y	1.387	31:32	1.001	0.996	1.006	85.2919
PCB-73	9.28e+07	0.79 y	1.506	31:39	1.005	1.000	1.010	43.2506
PCB-43/49	1.48e+08	0.78 y	1.198	31:48	1.010	1.005	1.015	86.4383
PCB-47	8.50e+07	0.78 y	1.187	32:01	1.001	0.995	1.005	45.9382
PCB-48/75	1.84e+08	0.78 y	1.385	32:07	1.004	0.999	1.009	85.2470
PCB-65	9.50e+07	0.77 y	1.308	32:23	1.012	1.007	1.017	46.5801
PCB-62	9.37e+07	0.79 y	1.383	32:30	1.016	1.011	1.021	43.4503
PCB-44	6.70e+07	0.79 y	0.958	32:48	1.025	1.020	1.030	44.8360
PCB-42/59	1.79e+08	0.78 y	1.324	33:02	1.033	1.027	1.037	86.8655
PCB-41/64/71/72	3.86e+08	0.78 y	1.378	33:37	1.051	1.046	1.056	179.625
PCB-68	1.13e+08	0.78 y	1.628	33:53	1.059	1.054	1.064	44.6003
PCB-40	6.21e+07	0.78 y	0.911	34:06	1.066	1.061	1.071	43.7129
PCB-57	1.04e+08	0.76 y	1.227	34:27	0.970	0.965	0.975	45.7936
PCB-67	9.19e+07	0.78 y	1.210	34:45	0.979	0.974	0.984	40.8330
PCB-58	1.11e+08	0.78 y	1.279	34:53	0.982	0.977	0.987	46.5715
PCB-63	1.04e+08	0.79 y	1.305	35:02	0.987	0.981	0.991	42.8559
PCB-74	1.01e+08	0.78 y	1.311	35:19	0.995	0.990	1.000	41.6064
PCB-61/70	2.00e+08	0.79 y	1.234	35:30	0.999	0.995	1.005	87.1517
PCB-76/66	2.11e+08	0.78 y	1.288	35:43	1.006	1.000	1.010	88.0250
PCB-80	1.23e+08	0.79 y	1.487	35:57	1.001	0.996	1.006	42.5928
PCB-55	1.13e+08	0.78 y	1.364	36:16	1.009	1.004	1.014	42.7094
PCB-56/60	2.06e+08	0.79 y	1.254	36:46	1.023	1.018	1.028	84.8005
PCB-79	1.11e+08	0.78 y	1.340	37:50	1.053	1.048	1.058	42.6009
PCB-78	1.08e+08	0.78 y	1.291	38:32	0.987	0.982	0.992	42.5299
PCB-81	1.15e+08	0.78 y	1.381	39:03	1.000	0.995	1.005	42.2895
PCB-77	1.16e+08	0.79 y	1.417	39:39	1.000	0.995	1.005	43.4764
PCB-104	8.78e+07	1.60 y	1.467	32:39	1.000	0.996	1.006	42.1370
PCB-96	7.72e+07	1.59 y	1.290	33:55	1.039	1.034	1.044	42.1320
PCB-103	7.02e+07	1.57 y	1.186	34:28	1.056	1.051	1.061	41.6425
PCB-100	6.97e+07	1.57 y	1.178	34:49	1.067	1.061	1.071	41.6381
PCB-94	5.81e+07	1.59 y	1.252	35:17	0.985	0.981	0.991	40.6928
PCB-95/98/102	1.93e+08	1.56 y	1.402	35:47	0.999	0.994	1.004	120.705
PCB-93	5.87e+07	1.65 y	1.178	35:55	1.003	0.998	1.008	43.7261
PCB-88/91	1.21e+08	1.57 y	1.320	36:12	1.011	1.006	1.016	80.5916
PCB-121	9.11e+07	1.58 y	1.892	36:19	1.014	1.009	1.019	42.2339
PCB-84/92	1.23e+08	1.58 y	1.298	37:07	0.990	0.985	0.995	83.3765
PCB-89	5.84e+07	1.60 y	1.227	37:19	0.995	0.990	1.000	41.8229

Integrations by Analyst: ML
Date: 8/1/17

Reviewed by Analyst: [illegible]
Date: 8/5/17

Client ID: PCB CS3 17C0311 Filename: 170731E1 S:1 Acq:31-JUL-17 13:08:34 ConCal: ST170731E1-1

Lab ID: ST170731E1-1 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc
PCB-90/101	1.38e+08	1.59 y	1.47	37:30	1.000	0.995-1.005	82.6667
PCB-113	7.99e+07	1.56 y	1.65	37:45	1.007	1.001-1.011	42.4228
PCB-99	6.88e+07	1.60 y	1.48	37:51	1.009	1.004-1.014	40.8267
PCB-119	9.21e+07	1.58 y	2.25	38:18	0.987	0.982-0.992	40.5027
PCB-108/112	1.42e+08	1.57 y	1.71	38:27	0.991	0.986-0.996	82.2240
PCB-83	8.67e+07	1.59 y	2.05	38:37	0.996	0.990-1.000	41.9210
PCB-97	6.50e+07	1.58 y	1.56	38:49	1.001	0.995-1.005	41.1796
PCB-86	5.03e+07	1.60 y	1.20	38:57	1.004	0.999-1.009	41.5614
B-87/117/125	2.38e+08	1.57 y	1.91	39:04	1.007	1.002-1.012	123.429
PCB-111/115	1.94e+08	1.60 y	2.24	39:15	1.012	1.006-1.016	85.7229
PCB-85/116	1.35e+08	1.57 y	1.66	39:22	1.015	1.010-1.020	80.5729
PCB-120	1.00e+08	1.57 y	2.43	39:37	1.021	1.016-1.026	40.7577
PCB-110	8.31e+07	1.56 y	1.98	39:45	1.025	1.019-1.029	41.6311
PCB-82	5.30e+07	1.56 y	0.91	40:22	0.976	0.971-0.981	42.0149
PCB-124	8.62e+07	1.56 y	1.59	41:04	0.993	0.988-0.998	38.9310
PCB-107/109	1.83e+08	1.59 y	1.58	41:12	0.996	0.991-1.001	83.0354
PCB-123	8.78e+07	1.55 y	1.58	41:22	1.000	0.996-1.006	39.9281
- PCB-106/118	1.88e+08	1.57 y	1.57	41:35	1.001	0.996-1.006	81.4382
- PCB-114	1.05e+08	1.57 y	1.18	42:12	1.000	0.995-1.005	56.4475
PCB-122	9.17e+07	1.59 y	1.07	42:20	1.003	0.999-1.009	54.3538
PCB-105	1.05e+08	1.54 y	1.23	43:04	1.000	0.995-1.005	54.9549
PCB-127	9.38e+07	1.59 y	1.03	43:24	1.000	0.995-1.005	54.6904
PCB-126	9.77e+07	1.60 y	1.12	45:18	1.000	0.995-1.005	55.8068
PCB-155	8.07e+07	1.25 y	1.31	37:04	1.001	0.966-1.006	44.8451
PCB-150	7.58e+07	1.24 y	1.22	38:19	1.034	1.030-1.040	45.1006
PCB-152	7.61e+07	1.26 y	1.24	38:47	1.047	1.042-1.052	44.5381
PCB-145	7.40e+07	1.23 y	1.20	39:14	1.059	1.054-1.064	44.9815
PCB-136	7.82e+07	1.25 y	1.28	39:34	1.068	1.063-1.073	44.5350
PCB-148	5.67e+07	1.26 y	0.91	39:41	1.071	1.066-1.076	45.5790
PCB-154	6.27e+07	1.24 y	1.00	40:10	1.084	1.079-1.089	45.7616
PCB-151	5.90e+07	1.24 y	0.92	40:48	1.101	1.097-1.107	46.8869
PCB-135	5.43e+07	1.24 y	0.88	41:00	1.107	1.101-1.113	44.7645
PCB-144	6.47e+07	1.25 y	0.98	41:07	1.110	1.105-1.116	47.8450
PCB-147	5.40e+07	1.28 y	0.87	41:15	1.114	1.108-1.120	45.3808
PCB-139/149	1.23e+08	1.25 y	0.98	41:31	1.121	1.115-1.127	91.0065
- PCB-140	5.77e+07	1.26 y	0.89	41:42	1.126	1.120-1.132	47.2459
- PCB-134/143	1.57e+08	1.25 y	0.95	42:08	0.975	0.970-0.980	91.5248

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc
PCB-131/133	1.60e+08	1.27 y	0.94	42:26	0.982	0.977-0.987	93.9147
PCB-142	7.65e+07	1.19 y	0.91	42:35	0.985	0.981-0.991	46.3150
PCB-146/165	1.93e+08	1.24 y	1.18	42:49	0.991	0.986-0.996	90.8284
PCB-132/161	1.95e+08	1.25 y	1.17	43:03	0.996	0.992-1.002	91.7030
PCB-153	9.85e+07	1.26 y	1.21	43:13	1.000	0.995-1.005	45.0349
PCB-168	1.21e+08	1.26 y	1.46	43:26	1.005	1.000-1.010	45.7473
PCB-141	8.85e+07	1.23 y	1.30	43:57	1.000	0.996-1.006	45.4654
PCB-137	8.77e+07	1.24 y	1.32	44:21	1.009	1.004-1.014	44.1955
PCB-130	8.15e+07	1.28 y	1.07	44:26	1.011	1.007-1.017	50.8637
PCB-138/163/164	3.19e+08	1.25 y	1.43	44:49	1.001	0.996-1.006	138.400
PCB-158/160	2.32e+08	1.24 y	1.57	45:03	1.006	1.001-1.011	91.3714
PCB-129	7.80e+07	1.26 y	1.05	45:18	1.011	1.007-1.017	46.0264
PCB-166	1.17e+08	1.28 y	1.31	45:45	0.993	0.988-0.998	46.2006
PCB-159	1.24e+08	1.28 y	1.42	46:06	1.001	0.995-1.005	45.1582
PCB-128/162	2.08e+08	1.26 y	1.15	46:22	1.006	1.002-1.012	93.3012
PCB-167	1.20e+08	1.27 y	1.32	46:46	1.000	0.995-1.005	45.2836
PCB-156	1.22e+08	1.27 y	1.38	48:04	1.000	0.995-1.005	46.0465
PCB-157	1.24e+08	1.24 y	1.38	48:20	1.000	0.995-1.005	46.0485
PCB-169	1.12e+08	1.26 y	1.27	50:32	1.000	0.995-1.005	46.6389
PCB-188	1.05e+08	1.03 y	1.78	42:51	1.000	0.996-1.006	43.1673
PCB-184	9.48e+07	1.06 y	1.63	43:19	1.011	1.006-1.016	42.6424
PCB-179	9.84e+07	1.06 y	1.63	44:05	1.029	1.024-1.034	44.3986
PCB-176	1.04e+08	1.05 y	1.77	44:33	1.040	1.035-1.045	43.4352
PCB-186	1.04e+08	1.04 y	1.77	45:09	1.054	1.049-1.059	43.0152
PCB-178	7.72e+07	1.05 y	1.28	45:39	1.066	1.061-1.071	44.3637
PCB-175	7.75e+07	1.03 y	1.30	45:60	1.074	1.069-1.079	43.7743
PCB-182/187	1.68e+08	1.05 y	1.41	46:10	1.078	1.073-1.083	87.4954
PCB-183	8.80e+07	1.05 y	1.51	46:29	1.085	1.080-1.090	42.7173
PCB-185	7.75e+07	1.05 y	1.78	47:08	0.956	0.951-0.961	43.5358
PCB-174	7.34e+07	1.04 y	1.70	47:30	0.963	0.958-0.968	43.0703
PCB-181	7.59e+07	1.05 y	1.80	47:37	0.965	0.960-0.970	42.2489
PCB-177	6.93e+07	1.04 y	1.59	47:46	0.968	0.964-0.974	43.6833
PCB-171	8.04e+07	1.06 y	1.84	48:04	0.974	0.969-0.979	43.5675
PCB-173	6.61e+07	1.05 y	1.50	48:29	0.983	0.978-0.988	44.1257
PCB-172	7.65e+07	1.04 y	1.77	48:57	0.992	0.987-0.997	43.1896
PCB-192	9.96e+07	1.05 y	2.29	49:08	0.996	0.991-1.001	43.4274
PCB-180	7.88e+07	1.04 y	1.82	49:21	1.000	0.995-1.005	43.2470

Integrations by Analyst: [illegible]

Date: 8/1/17

Client ID: PCB CS3 17C0311 Filename: 170731E1 S:1 Acq:31-JUL-17 13:08:34 ConCal: ST170731E1-1

Lab ID: ST170731E1-1 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	1.03e+08	1.06 y	2.38	49:33	1.004	0.999	1.009	43.2884
PCB-191	1.05e+08	1.06 y	2.44	49:48	1.010	1.005	1.015	43.1777
PCB-170	7.41e+07	1.05 y	1.96	50:56	1.000	0.995	1.005	42.7630
PCB-190	1.03e+08	1.07 y	2.72	51:07	1.004	0.999	1.009	42.6045
PCB-189	9.90e+07	1.06 y	1.97	52:33	1.000	0.995	1.005	42.8291
PCB-202	7.20e+07	0.86 y	1.29	48:16	1.000	0.995	1.005	40.1445
PCB-201	7.98e+07	0.88 y	1.40	48:45	1.010	1.005	1.015	41.0436
PCB-204	7.57e+07	0.89 y	1.32	48:55	1.014	1.009	1.019	41.3770
PCB-197	8.68e+07	0.88 y	1.48	49:13	1.020	1.015	1.025	42.2242
PCB-200	7.81e+07	0.89 y	1.38	50:07	1.039	1.034	1.044	40.8041
PCB-198	5.94e+07	0.88 y	1.02	51:35	1.069	1.063	1.073	42.1624
PCB-199	5.42e+07	0.86 y	0.94	51:42	1.071	1.065	1.075	41.7993
- PCB-196/203	1.23e+08	0.88 y	1.07	51:58	1.077	1.071	1.081	83.1674
- PCB-195	5.89e+07	0.87 y	1.01	53:12	0.984	0.979	0.989	58.8205
PCB-194	5.63e+07	0.89 y	1.11	54:06	1.000	0.995	1.005	51.1965
PCB-205	7.29e+07	0.89 y	1.43	54:22	1.005	1.000	1.010	51.3142
PCB-208	9.36e+07	1.32 y	1.16	53:21	1.000	0.995	1.005	44.9783
PCB-207	9.40e+07	1.32 y	1.18	53:41	1.006	1.001	1.011	44.2746
PCB-206	5.33e+07	1.32 y	0.98	55:39	1.000	0.995	1.005	45.2425
PCB-209	7.05e+07	1.19 y	1.56	56:58	1.000	0.995	1.005	42.3202

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	3.52e+08	3.03 y	16:02	1.33	129.877	
Total Di-PCB	1.47e+09	1.58 y	20:03	1.05	647.270	
Total Tri-PCB	8.20e+08	1.06 y	24:11	1.54	331.781	
Total Tri-PCB	1.45e+09	0.98 y	27:54	0.94	893.905	Sum:1225.69
Total Tetra-PCB	3.98e+09	0.79 y	27:57	1.25	1860.16	
Total Penta-PCB	3.09e+09	1.60 y	32:39	1.47	1694.69	
Total Penta-PCB	5.16e+08	1.57 y	42:12	1.13	288.997	Sum:1983.68
Total Hexa-PCB	9.17e+08	1.25 y	37:04	1.05	638.470	
Total Hexa-PCB	2.85e+09	1.25 y	42:08	1.23	1306.59	Sum:1945.06
Total Hepta-PCB	2.11e+09	1.03 y	42:51	1.72	1047.82	
Total Octa-PCB	6.29e+08	0.86 y	48:16	1.22	372.722	
Total Octa-PCB	1.90e+08	0.87 y	53:12	1.18	163.116	Sum:535.839
Total Nona-PCB	2.41e+08	1.32 y	53:21	1.12	134.495	
Total Deca-PCB	7.05e+07	1.19 y	56:58	1.56	42.3202	

Total PCB Conc:9456.20296500

Integrations by Analyst: (M)

Date: 8/1/17

Client ID: PCB CS3 17C0311 Filename: 170731E1 S:1 Acq:31-JUL-17 13:08:34 ConCal: ST170731E1-1
Lab ID: ST170731E1-1 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-1	1.89e+08	3.09 y	0.70	16:00	0.618	0.617-0.623	113	113
13C-PCB-3	2.12e+08	3.06 y	0.79	18:39	0.720	0.717-0.725	114	114
13C-PCB-4	1.40e+08	1.56 y	0.54	19:60	0.772	0.769-0.777	110	110
13C-PCB-9	2.21e+08	1.54 y	0.89	21:48	0.842	0.838-0.846	105	105
13C-PCB-11	2.27e+08	1.56 y	0.93	25:12	0.973	0.968-0.978	103	103
13C-PCB-19	1.32e+08	1.01 y	0.41	24:10	0.933	0.928-0.938	137	137
13C-PCB-28	1.74e+08	1.05 y	1.04	29:04	1.004	0.999-1.009	99.3	99.3
13C-PCB-32	1.76e+08	1.04 y	0.63	27:06	1.046	1.041-1.051	118	118
13C-PCB-37	1.72e+08	1.06 y	1.00	32:57	1.138	1.132-1.144	103	103
13C-PCB-47	1.56e+08	0.79 y	0.80	31:59	0.871	0.867-0.875	103	103
13C-PCB-52	1.42e+08	0.81 y	0.74	31:30	0.857	0.853-0.861	101	101
13C-PCB-54	1.72e+08	0.80 y	0.94	27:56	0.760	0.757-0.765	96.7	96.7
13C-PCB-70	1.86e+08	0.81 y	0.99	35:31	0.966	0.961-0.971	98.2	98.2
13C-PCB-77	1.88e+08	0.80 y	0.97	39:37	1.078	1.073-1.083	102	102
13C-PCB-80	1.94e+08	0.80 y	1.01	35:56	0.978	0.973-0.983	101	101
13C-PCB-81	1.97e+08	0.81 y	1.01	39:02	1.062	1.057-1.067	102	102
13C-PCB-95	1.14e+08	1.59 y	0.80	35:49	0.913	0.908-0.918	96.0	96.0
13C-PCB-97	1.01e+08	1.58 y	0.70	38:47	0.989	0.984-0.994	97.7	97.7
13C-PCB-101	1.14e+08	1.61 y	0.81	37:30	0.956	0.951-0.961	95.7	95.7
13C-PCB-104	1.42e+08	1.58 y	1.01	32:39	0.832	0.828-0.836	95.6	95.6
13C-PCB-105	1.55e+08	1.60 y	1.18	43:03	0.929	0.924-0.934	92.4	92.4
13C-PCB-114	1.57e+08	1.58 y	1.18	42:12	0.911	0.905-0.915	93.3	93.3
13C-PCB-118	1.47e+08	1.63 y	0.99	41:32	1.059	1.054-1.064	100	100
13C-PCB-123	1.39e+08	1.62 y	0.94	41:22	1.054	1.049-1.059	101	101
13C-PCB-126	1.56e+08	1.58 y	1.17	45:17	0.977	0.972-0.982	94.0	94.0
13C-PCB-127	1.67e+08	1.57 y	1.26	43:24	0.936	0.931-0.941	92.9	92.9
13C-PCB-138	1.61e+08	1.28 y	1.15	44:47	0.966	0.961-0.971	98.2	98.2
13C-PCB-141	1.50e+08	1.28 y	1.11	43:57	0.948	0.943-0.953	95.4	95.4
13C-PCB-153	1.81e+08	1.26 y	1.32	43:13	0.933	0.927-0.937	96.4	96.4
13C-PCB-155	1.37e+08	1.24 y	0.76	37:02	0.944	0.939-0.949	122	122
13C-PCB-156	1.93e+08	1.29 y	1.40	48:03	1.037	1.032-1.042	96.6	96.6
13C-PCB-157	1.96e+08	1.29 y	1.40	48:19	1.043	1.038-1.048	98.5	98.5
13C-PCB-159	1.93e+08	1.28 y	1.39	46:05	0.994	0.989-0.999	97.7	97.7
13C-PCB-167	2.00e+08	1.28 y	1.41	46:45	1.009	1.004-1.014	99.8	99.8
13C-PCB-169	1.89e+08	1.28 y	1.38	50:32	1.090	1.085-1.095	96.5	96.5
13C-PCB-170	8.84e+07	0.46 y	0.83	50:55	1.103	1.093-1.103	103	103
13C-PCB-180	1.00e+08	0.46 y	0.96	49:20	1.068	1.059-1.069	101	101
13C-PCB-188	1.36e+08	0.46 y	1.36	42:50	0.928	0.919-0.929	97.5	97.5
13C-PCB-189	1.18e+08	0.46 y	1.16	52:32	1.138	1.125-1.137	98.5	98.5
13C-PCB-194	9.91e+07	0.87 y	0.74	54:05	0.995	0.990-1.000	100	100
13C-PCB-202	1.39e+08	0.92 y	0.95	48:15	1.045	1.036-1.046	142	142
13C-PCB-206	1.20e+08	0.78 y	0.91	55:38	1.024	1.019-1.029	98.2	98.2
13C-PCB-208	1.80e+08	0.78 y	1.19	53:20	0.981	0.977-0.987	113	113
13C-PCB-209	1.07e+08	1.21 y	0.80	56:57	1.048	1.044-1.054	99.6	99.6

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-79	1.96e+08	0.79 y	1.02	37:49	1.029	1.024-1.033	101	101
13C-PCB-178	9.37e+07	0.45 y	0.90	45:38	0.985	0.980-0.989	101	101

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc	Rec
13C-PCB-79	1.96e+08	0.79 y	1.01	37:49	0.969	0.963-0.973	98.4	98.4
13C-PCB-178	9.37e+07	0.45 y	0.94	45:38	0.925	0.920-0.930	99.9	99.9

RS

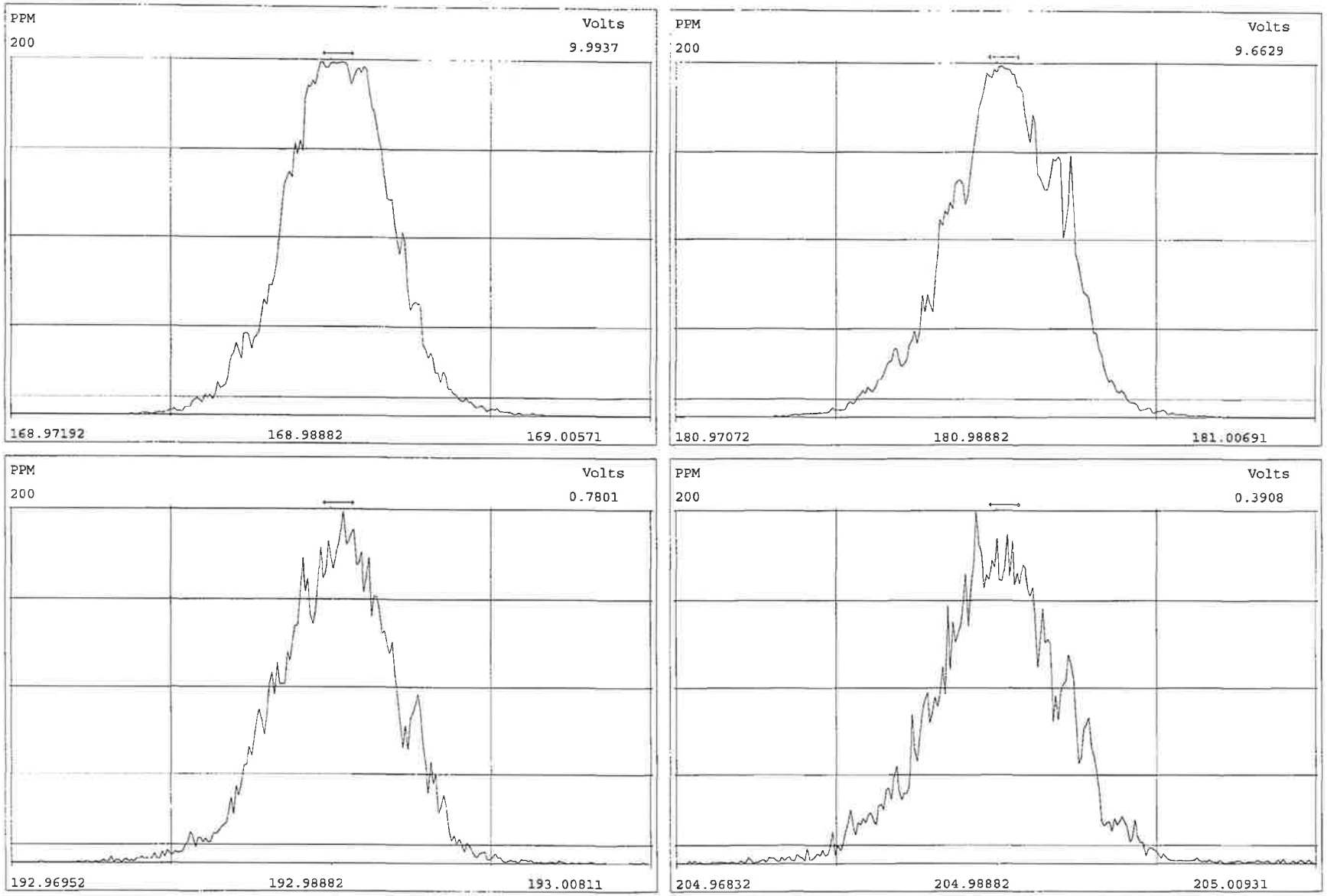
Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	2.37e+08	1.54 y	1.00	25:54	100
13C-PCB-31	1.67e+08	1.05 y	1.00	28:58	100
13C-PCB-60	1.90e+08	0.80 y	1.00	36:45	100
13C-PCB-111	1.48e+08	1.56 y	1.00	39:14	100
13C-PCB-128	1.42e+08	1.27 y	1.00	46:21	100
13C-PCB-182	1.03e+08	0.46 y	1.00	46:10	100
13C-PCB-205	1.34e+08	0.89 y	1.00	54:21	100

Analyst: M

Date: 8/1/17

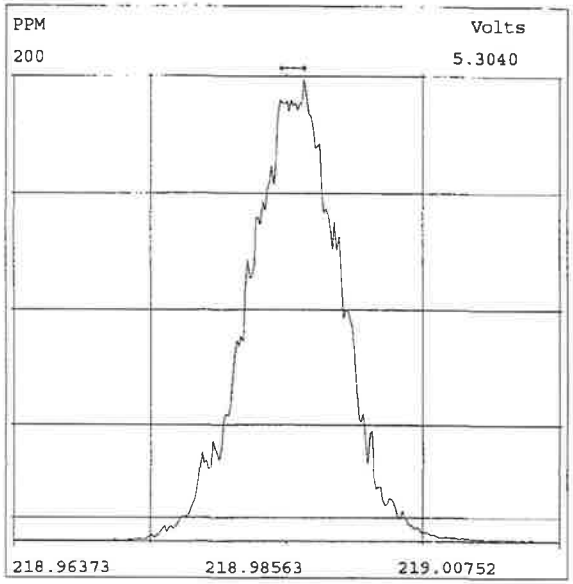
Peak Locate Examination:31-JUL-2017:13:06 File:170731E1

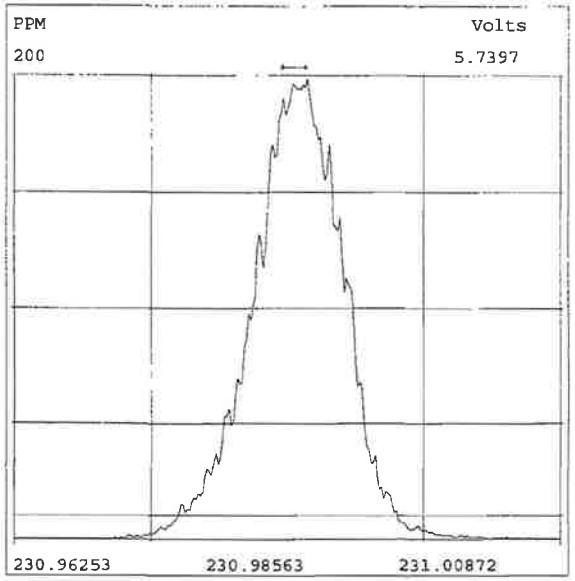
Experiment:PCB_ZB1 Function:1 Reference:PFK

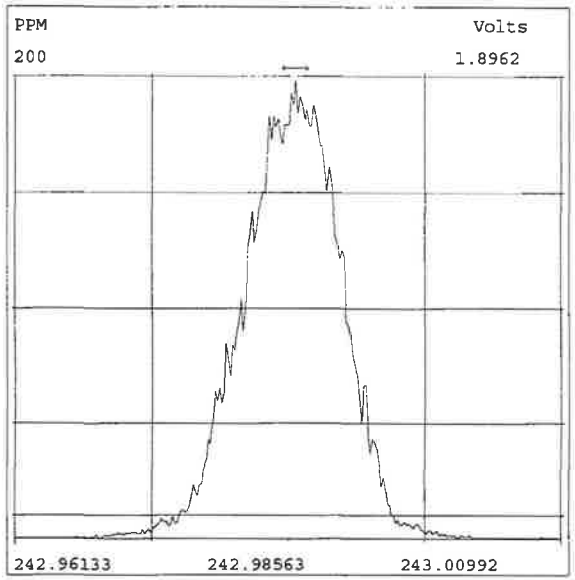


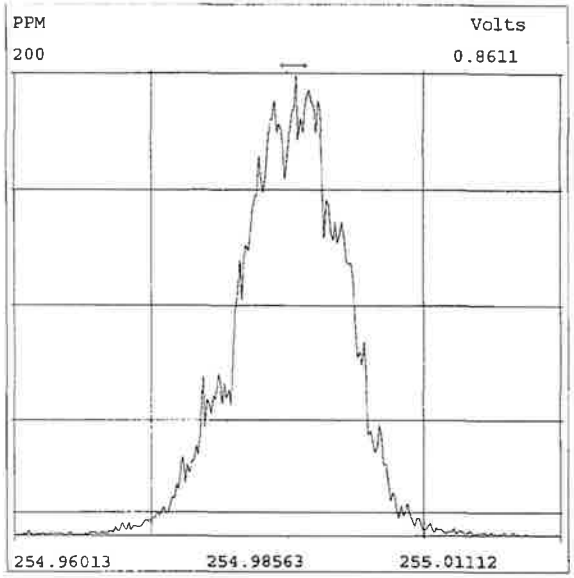
Peak Locate Examination:31-JUL-2017:13:07 File:170731E1

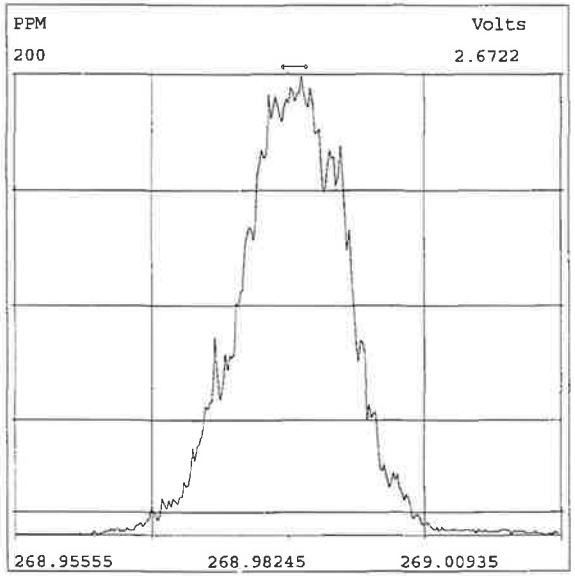
Experiment:PCB_ZB1 Function:2 Reference:PFK

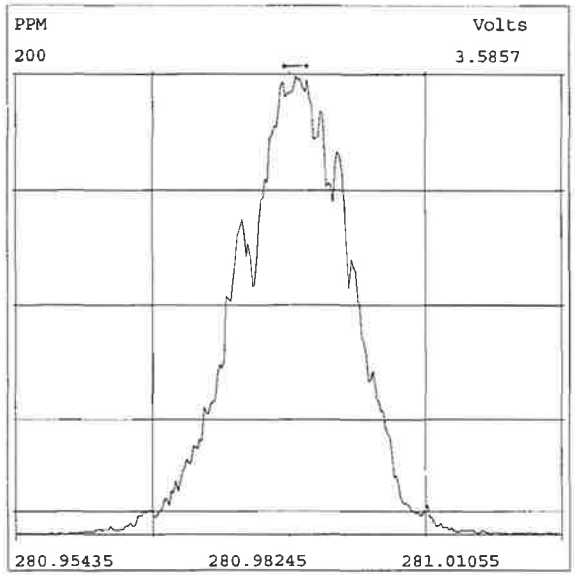






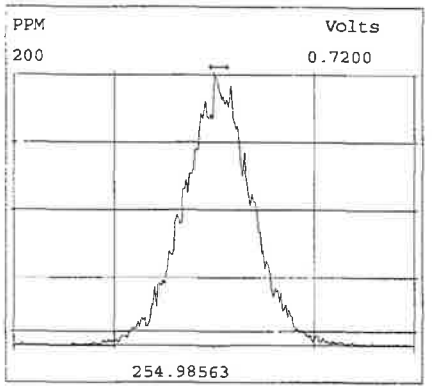


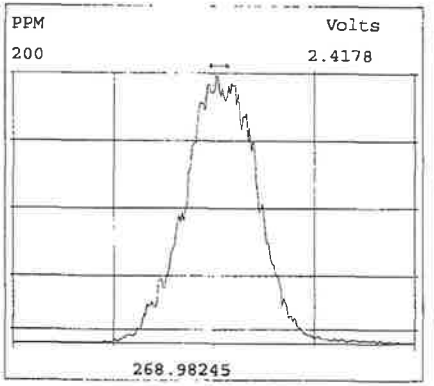


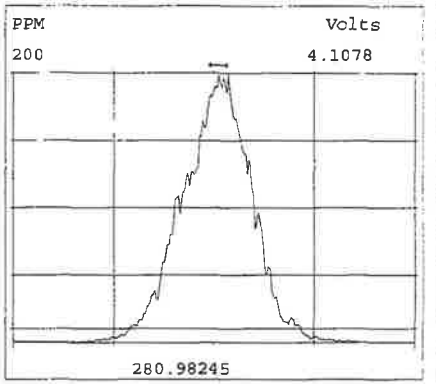


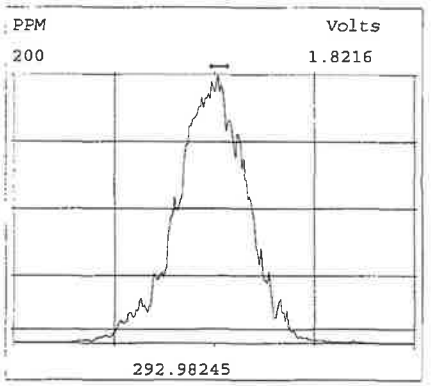
Peak Locate Examination:31-JUL-2017:13:07 File:170731E1

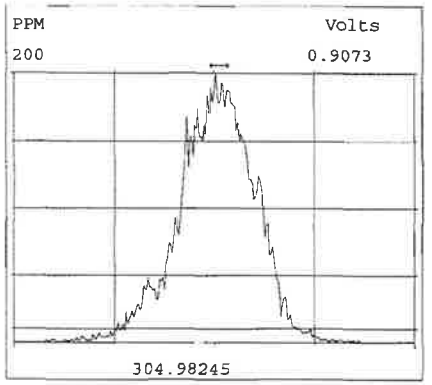
Experiment:PCB_ZB1 Function:3 Reference:PFK

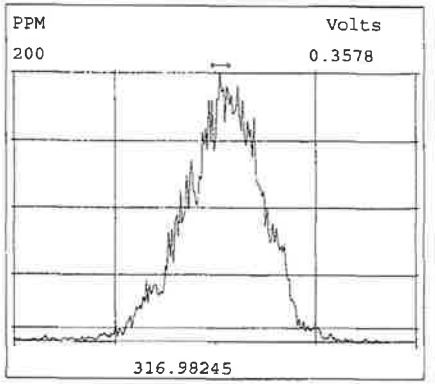


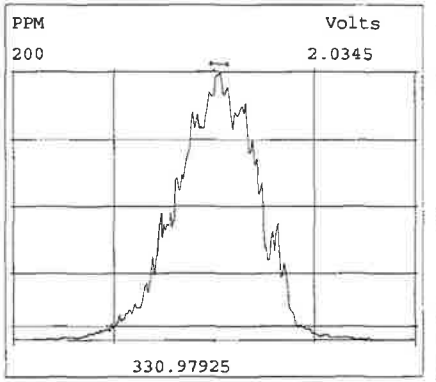


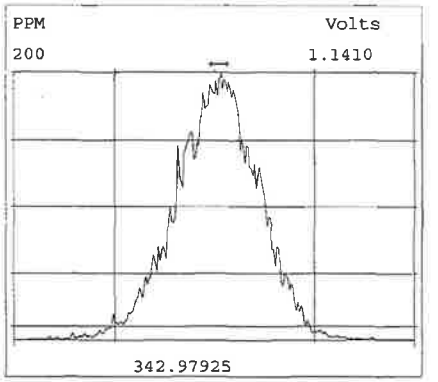


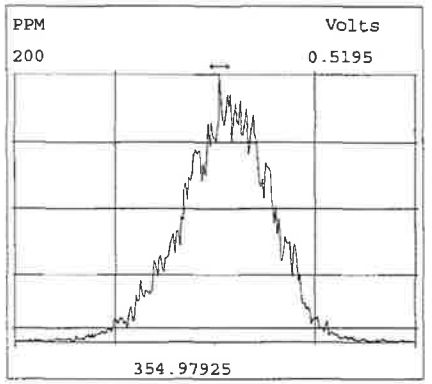


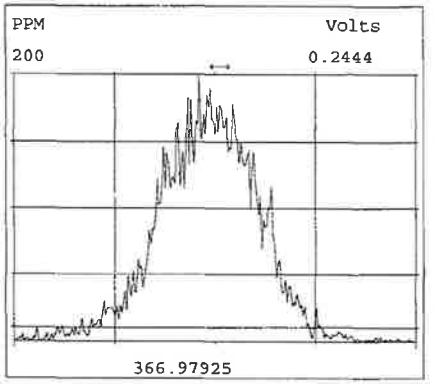


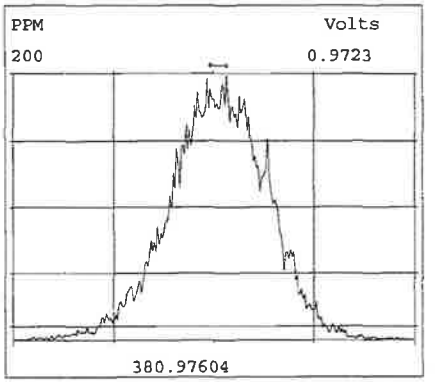






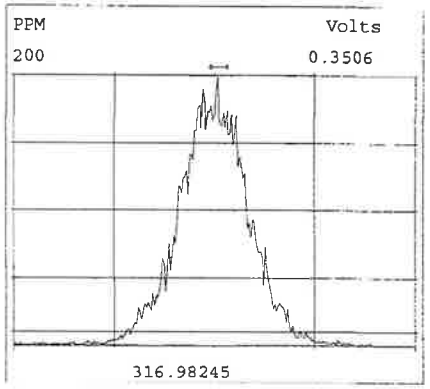


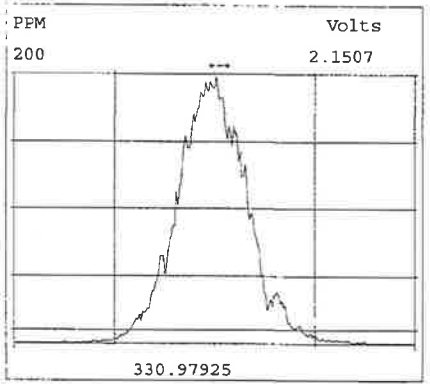


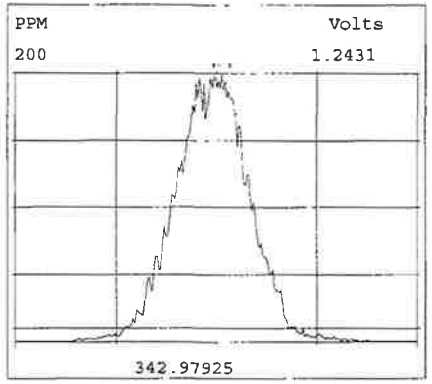


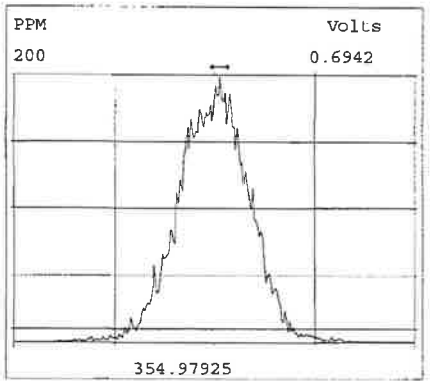
Peak Locate Examination:31-JUL-2017:13:07 File:170731E1

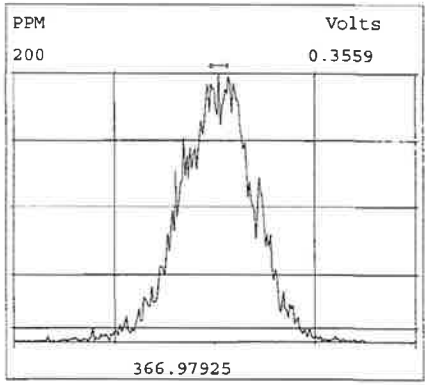
Experiment:PCB_ZB1 Function:4 Reference:PFK

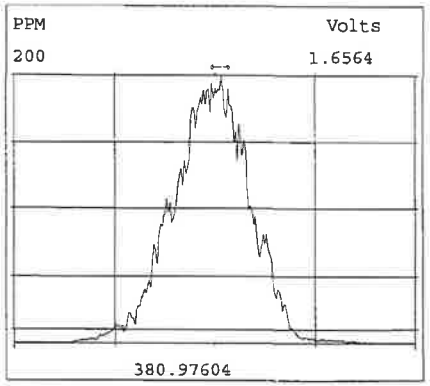


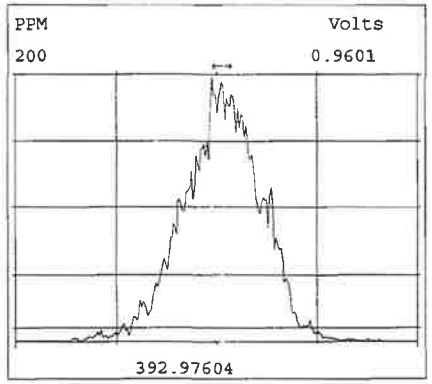


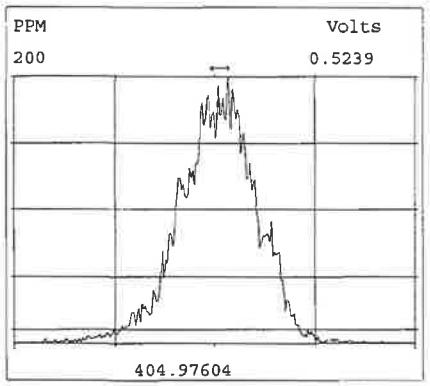


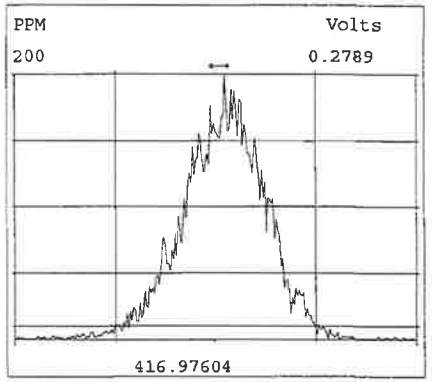


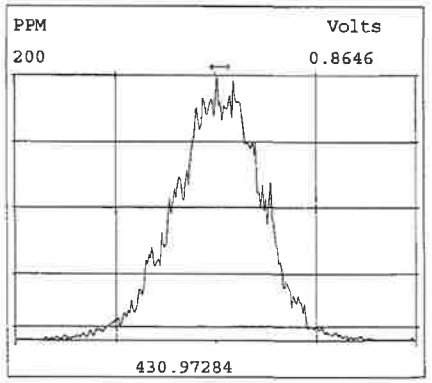


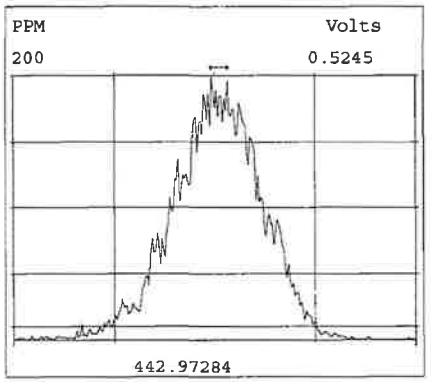






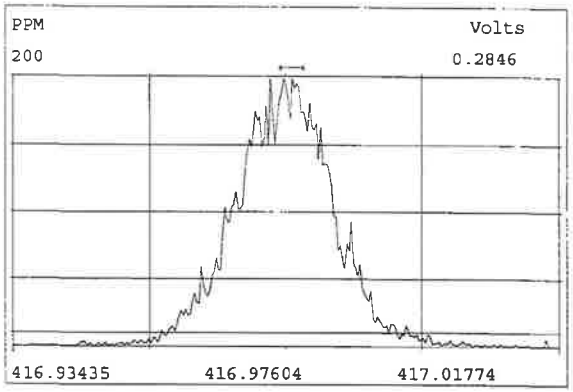


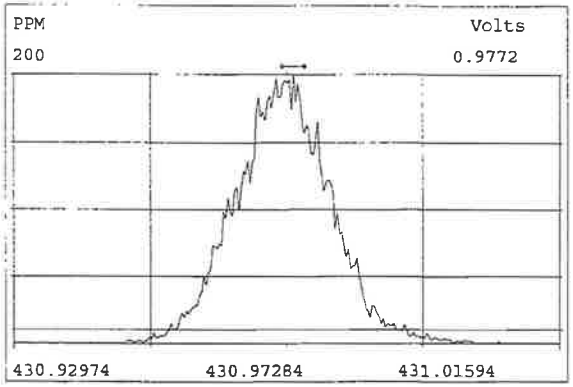


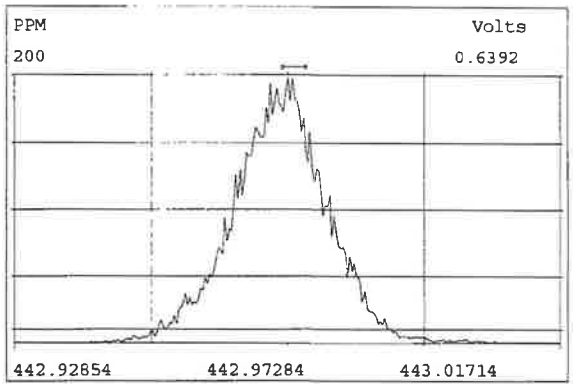


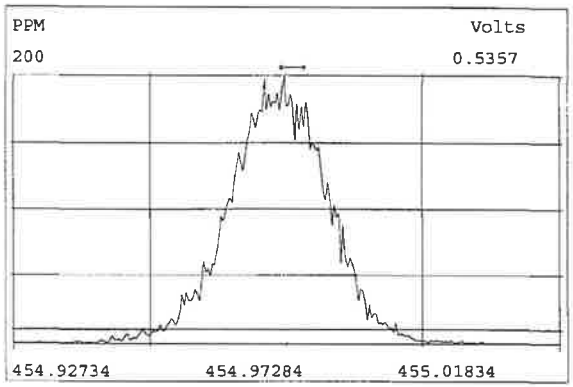
Peak Locate Examination:31-JUL-2017:13:08 File:170731E1

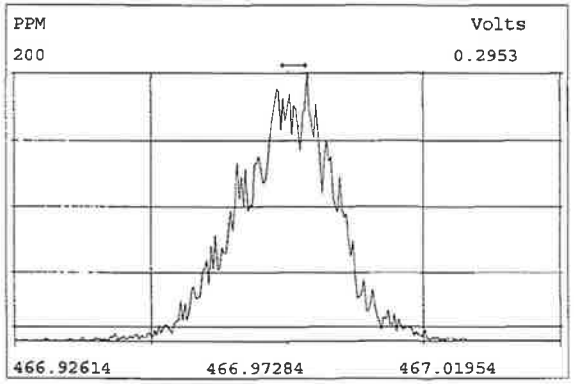
Experiment:PCB_ZB1 Function:5 Reference:PFK

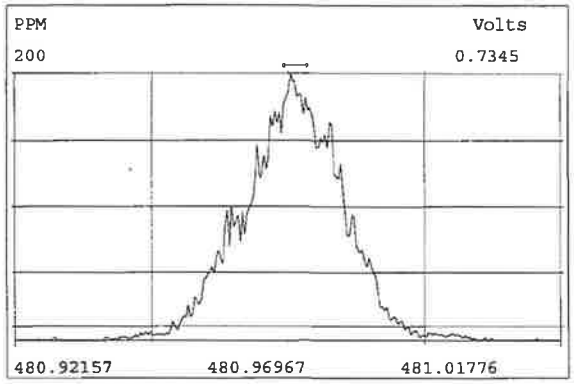


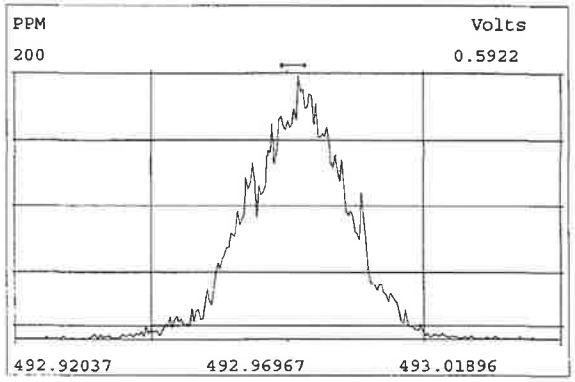


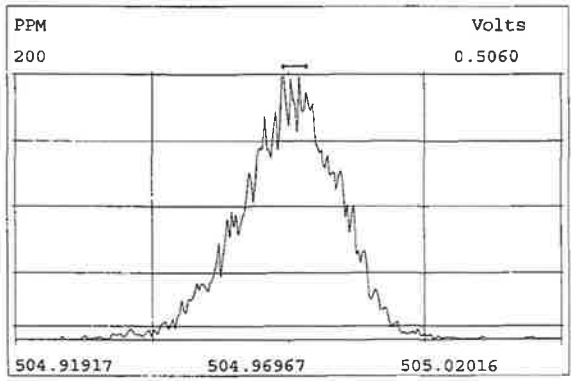


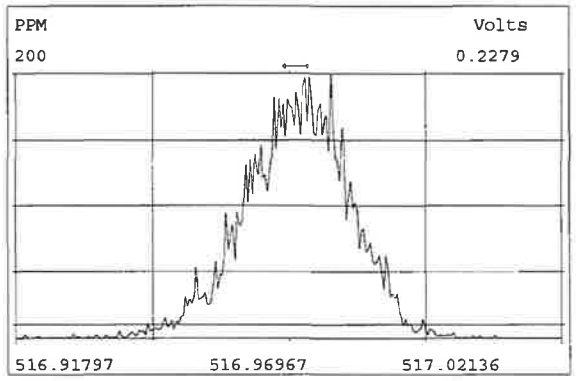












Vista Analytical Laboratory - Injection Log Run file: 170801E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
170801E1	1	ST170801E1-1	MAS	1-AUG-17	13:35:50	ST170801E1-1	NA
170801E1	2	B7G0142-BS1	MAS	1-AUG-17	14:40:57	ST170801E1-1	NA
170801E1	3	SOLVENT BLANK	MAS	1-AUG-17	15:46:03	ST170801E1-1	NA
170801E1	4	B7G0142-BLK1	MAS	1-AUG-17	16:51:17	ST170801E1-1	NA
170801E1	5	1700764-07RE3	MAS	1-AUG-17	17:56:23	ST170801E1-1	NA
170801E1	6	1700764-08RE3	MAS	1-AUG-17	19:01:31	ST170801E1-1	NA
170801E1	7	1700764-09RE3	MAS	1-AUG-17	20:06:38	ST170801E1-1	NA
170801E1	8	1700764-11RE3	MAS	1-AUG-17	21:11:46	ST170801E1-1	NA
170801E1	9	1700918-08	MAS	1-AUG-17	22:16:53	ST170801E1-1	NA
170801E1	10	1700918-09	MAS	1-AUG-17	23:21:59	ST170801E1-1	NA
170801E1	11	1700918-010	MAS	2-AUG-17	00:27:05	ST170801E1-1	NA
170801E1	12	SOLVENT BLANK	MAS	2-AUG-17	01:32:12	ST170801E1-1	NA

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST170801E1-1 Instrument ID: VG-8

Initial Calibration Date: 3-13-17 ICal ID: PCBVG8-3-13-17 GC Column ID: ZB-1

VER Data Filename: 170801E1 S#1 Analysis Date: 1-AUG-17 Time: 13:35:50

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	3.15	2.66-3.60	y	44.0	37.5-62.5
PCB-2	3.15	2.66-3.60	y	44.8	37.5-62.5
PCB-3	3.15	2.66-3.60	y	44.1	37.5-62.5
PCB-4/10	1.59	1.33-1.79	y	106.6	75-125
PCB-7/9	1.59	1.33-1.79	y	110.3	75-125
PCB-6	1.60	1.33-1.79	y	54.8	37.5-62.5
PCB-5/8	1.60	1.33-1.79	y	108.0	75-125
PCB-14	1.59	1.33-1.79	y	57.4	37.5-62.5
PCB-11	1.60	1.33-1.79	y	55.7	37.5-62.5
PCB-12/13	1.59	1.33-1.79	y	110.9	75-125
PCB-15	1.57	1.33-1.79	y	54.7	37.5-62.5
PCB-19	1.09	0.88-1.20	y	40.6	37.5-62.5
PCB-30	1.09	0.88-1.20	y	39.4	37.5-62.5
PCB-18	1.09	0.88-1.20	y	43.5	37.5-62.5
PCB-17	1.08	0.88-1.20	y	43.7	37.5-62.5
PCB-24/27	1.08	0.88-1.20	y	85.0	75.0-125
PCB-16/32	1.08	0.88-1.20	y	82.7	75.0-125
PCB-34	1.07	0.88-1.20	y	61.7	37.5-62.5
PCB-23	1.04	0.88-1.20	y	53.6	37.5-62.5
PCB-29	1.06	0.88-1.20	y	58.2	37.5-62.5
PCB-26	1.05	0.88-1.20	y	57.7	37.5-62.5
PCB-25	1.06	0.88-1.20	y	58.7	37.5-62.5
PCB-31	1.04	0.88-1.20	y	56.5	37.5-62.5
PCB-28	1.06	0.88-1.20	y	62.4	37.5-62.5
PCB-20/21/33	1.05	0.88-1.20	y	181.5	112.5-225
PCB-22	1.06	0.88-1.20	y	55.8	37.5-62.5
PCB-36	1.07	0.88-1.20	y	61.0	37.5-62.5
PCB-39	1.06	0.88-1.20	y	61.9	37.5-62.5
PCB-38	1.05	0.88-1.20	y	60.4	37.5-62.5
PCB-35	1.06	0.88-1.20	y	62.5	37.5-62.5
PCB-37	1.06	0.88-1.20	y	61.1	37.5-62.5
PCB-54	0.79	0.65-0.89	y	46.4	37.5-62.5
PCB-50	0.79	0.65-0.89	y	46.6	37.5-62.5
PCB-53	0.79	0.65-0.89	y	44.3	37.5-62.5
PCB-51	0.80	0.65-0.89	y	42.3	37.5-62.5
PCB-45	0.79	0.65-0.89	y	44.0	37.5-62.5
PCB-46	0.79	0.65-0.89	y	47.0	37.5-62.5

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-52/69	0.79	0.65-0.89	y	93.5	75.0-125
PCB-73	0.80	0.65-0.89	y	48.1	37.5-62.5
PCB-43/49	0.79	0.65-0.89	y	96.2	75.0-125
PCB-47	0.79	0.65-0.89	y	48.6	37.5-62.5
PCB-48/75	0.80	0.65-0.89	y	91.8	75.0-125
PCB-65	0.79	0.65-0.89	y	47.8	37.5-62.5
PCB-62	0.80	0.65-0.89	y	45.8	37.5-62.5
PCB-44	0.80	0.65-0.89	y	46.3	37.5-62.5
PCB-42/59	0.80	0.65-0.89	y	92.5	75.0-125
PCB-41/64/71/72	0.79	0.65-0.89	y	192.3	150-250
PCB-68	0.80	0.65-0.89	y	47.7	37.5-62.5
PCB-40	0.78	0.65-0.89	y	46.7	37.5-62.5
PCB-57	0.79	0.65-0.89	y	45.9	37.5-62.5
PCB-67	0.88	0.65-0.89	y	44.9	37.5-62.5
PCB-58	0.73	0.65-0.89	y	47.4	37.5-62.5
PCB-63	0.79	0.65-0.89	y	45.9	37.5-62.5
PCB-74	0.80	0.65-0.89	y	45.0	37.5-62.5
PCB-61/70	0.79	0.65-0.89	y	94.3	75.0-125
PCB-76/66	0.79	0.65-0.89	y	93.0	75.0-125
PCB-80	0.80	0.65-0.89	y	46.2	37.5-62.5
PCB-55	0.79	0.65-0.89	y	45.6	37.5-62.5
PCB-56/60	0.79	0.65-0.89	y	91.0	75.0-125
PCB-79	0.79	0.65-0.89	y	41.3	37.5-62.5
PCB-78	0.79	0.65-0.89	y	45.5	37.5-62.5
PCB-81	0.79	0.65-0.89	y	46.2	37.5-62.5
PCB-77	0.81	0.65-0.89	y	45.7	37.5-62.5
PCB-104	1.60	1.32-1.78	y	45.7	37.5-62.5
PCB-96	1.62	1.32-1.78	y	47.9	37.5-62.5
PCB-103	1.59	1.32-1.78	y	49.7	37.5-62.5
PCB-100	1.59	1.32-1.78	y	51.0	37.5-62.5
PCB-94	1.61	1.32-1.78	y	45.2	37.5-62.5
PCB-95/98/102	1.57	1.32-1.78	y	134.9	112.5-225
PCB-93	1.73	1.32-1.78	y	49.1	37.5-62.5
PCB-88/91	1.59	1.32-1.78	y	88.8	75.0-125
PCB-121	1.62	1.32-1.78	y	46.0	37.5-62.5

Analyst: MJ

Date: 8/2/17

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST170801E1-1 Instrument ID: VG-8

Initial Calibration Date: 3-13-17 ICal ID: PCBVG8-3-13-17 GC Column ID: ZB-1

VER Data Filename: 170801E1 S#1 Analysis Date: 1-AUG-17 Time: 13:35:50

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.62	1.32-1.78	y	94.6	75.0-125
PCB-89	1.60	1.32-1.78	y	47.6	37.5-62.5
PCB-90/101	1.59	1.32-1.78	y	92.0	75.0-125
PCB-113	1.58	1.32-1.78	y	46.7	37.5-62.5
PCB-99	1.61	1.32-1.78	y	44.5	37.5-62.5
PCB-119	1.59	1.32-1.78	y	46.1	37.5-62.5
PCB-108/112	1.60	1.32-1.78	y	91.1	75.0-125
PCB-83	1.61	1.32-1.78	y	46.2	37.5-62.5
PCB-97	1.64	1.32-1.78	y	45.6	37.5-62.5
PCB-86	1.58	1.32-1.78	y	46.3	37.5-62.5
PCB-87/117/125	1.59	1.32-1.78	y	135.2	112.5-225
PCB-111/115	1.74	1.32-1.78	y	91.2	75.0-125
PCB-85/116	1.44	1.32-1.78	y	90.3	75.0-125
PCB-120	1.62	1.32-1.78	y	44.6	37.5-62.5
PCB-110	1.61	1.32-1.78	y	44.8	37.5-62.5
PCB-82	1.60	1.32-1.78	y	46.5	37.5-62.5
PCB-124	1.61	1.32-1.78	y	45.5	37.5-62.5
PCB-107/109	1.61	1.32-1.78	y	93.6	75.0-125
PCB-123	1.59	1.32-1.78	y	44.9	37.5-62.5
PCB-106/118	1.60	1.32-1.78	y	93.0	75.0-125
PCB-114	1.58	1.32-1.78	y	57.7	37.5-62.5
PCB-122	1.64	1.32-1.78	y	54.7	37.5-62.5
PCB-105	1.58	1.32-1.78	y	56.0	37.5-62.5
PCB-127	1.59	1.32-1.78	y	56.0	37.5-62.5
PCB-126	1.59	1.32-1.78	y	57.1	37.5-62.5
PCB-155	1.29	1.05-1.43	y	48.1	37.5-62.5
PCB-150	1.33	1.05-1.43	y	45.1	37.5-62.5
PCB-152	1.30	1.05-1.43	y	43.3	37.5-62.5
PCB-145	1.30	1.05-1.43	y	42.9	37.5-62.5
PCB-136	1.29	1.05-1.43	y	42.6	37.5-62.5
PCB-148	1.31	1.05-1.43	y	42.3	37.5-62.5
PCB-154	1.31	1.05-1.43	y	42.2	37.5-62.5
PCB-151	1.27	1.05-1.43	y	43.5	37.5-62.5
PCB-135	1.30	1.05-1.43	y	42.4	37.5-62.5
PCB-144	1.31	1.05-1.43	y	45.1	37.5-62.5
PCB-147	1.28	1.05-1.43	y	42.6	37.5-62.5
PCB-139/149	1.30	1.05-1.43	y	84.8	75.0-125

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-140	1.31	1.05-1.43	y	43.0	37.5-62.5
PCB-134/143	1.26	1.05-1.43	y	95.0	75.0-125
PCB-131/133	1.25	1.05-1.43	y	95.7	75.0-125
PCB-142	1.26	1.05-1.43	y	48.4	37.5-62.5
PCB-146/165	1.26	1.05-1.43	y	94.0	75.0-125
PCB-132/161	1.26	1.05-1.43	y	95.4	75.0-125
PCB-153	1.26	1.05-1.43	y	46.0	37.5-62.5
PCB-168	1.26	1.05-1.43	y	47.1	37.5-62.5
PCB-141	1.23	1.05-1.43	y	46.9	37.5-62.5
PCB-137	1.25	1.05-1.43	y	46.7	37.5-62.5
PCB-130	1.25	1.05-1.43	y	49.5	37.5-62.5
PCB-138/163/164	1.25	1.05-1.43	y	141.2	112.5-225
PCB-158/160	1.26	1.05-1.43	y	94.4	75.0-125
PCB-129	1.25	1.05-1.43	y	46.5	37.5-62.5
PCB-166	1.26	1.05-1.43	y	47.2	37.5-62.5
PCB-159	1.25	1.05-1.43	y	46.2	37.5-62.5
PCB-128/162	1.25	1.05-1.43	y	94.2	75.0-125
PCB-167	1.26	1.05-1.43	y	47.2	37.5-62.5
PCB-156	1.26	1.05-1.43	y	47.6	37.5-62.5
PCB-157	1.26	1.05-1.43	y	47.3	37.5-62.5
PCB-169	1.24	1.05-1.43	y	48.2	37.5-62.5
PCB-188	1.06	0.89-1.21	y	44.0	37.5-62.5
PCB-184	1.05	0.89-1.21	y	44.2	37.5-62.5
PCB-179	1.08	0.89-1.21	y	44.4	37.5-62.5
PCB-176	1.06	0.89-1.21	y	43.8	37.5-62.5
PCB-186	1.06	0.89-1.21	y	44.2	37.5-62.5
PCB-178	1.05	0.89-1.21	y	45.3	37.5-62.5
PCB-175	1.06	0.89-1.21	y	44.6	37.5-62.5
PCB-182/187	1.07	0.89-1.21	y	88.2	75.0-125
PCB-183	1.06	0.89-1.21	y	44.5	37.5-62.5
PCB-185	1.08	0.89-1.21	y	47.3	37.5-62.5
PCB-174	1.04	0.89-1.21	y	41.6	37.5-62.5
PCB-181	1.07	0.89-1.21	y	48.8	37.5-62.5
PCB-177	1.07	0.89-1.21	y	46.8	37.5-62.5
PCB-171	1.06	0.89-1.21	y	46.6	37.5-62.5
PCB-173	1.08	0.89-1.21	y	49.0	37.5-62.5
PCB-172	1.05	0.89-1.21	y	45.8	37.5-62.5

Analyst: MJ

Date: 8/2/17

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST170801E1-1 Instrument ID: VG-8

Initial Calibration Date: 3-13-17 ICal ID: PCBVG8-3-13-17 GC Column ID: ZB-1

VER Data Filename: 170801E1 S#1 Analysis Date: 1-AUG-17 Time: 13:35:50

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.07	0.89-1.21	y	45.6	37.5-62.5
PCB-180	1.07	0.89-1.21	y	45.2	37.5-62.5
PCB-193	1.07	0.89-1.21	y	46.2	37.5-62.5
PCB-191	1.07	0.89-1.21	y	45.9	37.5-62.5
PCB-170	1.08	0.89-1.21	y	45.8	37.5-62.5
PCB-190	1.06	0.89-1.21	y	46.6	37.5-62.5
PCB-189	1.07	0.89-1.21	y	45.9	37.5-62.5
PCB-202	0.91	0.76-1.02	y	42.4	37.5-62.5
PCB-201	0.93	0.76-1.02	y	41.6	37.5-62.5
PCB-204	0.88	0.76-1.02	y	42.2	37.5-62.5
PCB-197	0.93	0.76-1.02	y	40.9	37.5-62.5
PCB-200	0.92	0.76-1.02	y	40.4	37.5-62.5
PCB-198	0.92	0.76-1.02	y	41.8	37.5-62.5
PCB-199	0.92	0.76-1.02	y	43.8	37.5-62.5
PCB-196/203	0.90	0.76-1.02	y	83.3	75.0-125
PCB-195	0.91	0.76-1.02	y	55.6	37.5-62.5
PCB-194	0.89	0.76-1.02	y	54.2	37.5-62.5
PCB-205	0.90	0.76-1.02	y	55.0	37.5-62.5
PCB-208	1.32	1.14-1.54	y	45.9	37.5-62.5
PCB-207	1.34	1.14-1.54	y	46.1	37.5-62.5
PCB-206	1.33	1.14-1.54	y	45.9	37.5-62.5
PCB-209	1.20	0.99-1.33	y	43.8	37.5-62.5

Analyst: MJ

Date: 8/2/17

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST170801E1-1 Instrument ID: VG-8

Initial Calibration Date: 3-13-17 ICal ID: PCBVG8-3-13-17 GC Column ID: ZB-1

VER Data Filename: 170801E1 S#1 Analysis Date: 1-AUG-17 Time: 13:35:50

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.23	2.66-3.60	y	128.0	50.0-145
13C-PCB-3	3.24	2.66-3.60	y	121.3	50.0-145
13C-PCB-4	1.56	1.33-1.79	y	113.1	50.0-145
13C-PCB-9	1.58	1.33-1.79	y	107.7	50.0-145
13C-PCB-11	1.55	1.33-1.79	y	102.8	50.0-145
13C-PCB-19	1.09	0.88-1.20	y	131.0	50.0-145
13C-PCB-32	1.09	0.88-1.20	y	115.8	50.0-145
13C-PCB-28	1.05	0.88-1.20	y	104.4	50.0-145
13C-PCB-37	1.06	0.88-1.20	y	105.5	50.0-145
13C-PCB-54	0.80	0.65-0.89	y	93.2	50.0-145
13C-PCB-52	0.80	0.65-0.89	y	97.5	50.0-145
13C-PCB-47	0.80	0.65-0.89	y	97.0	50.0-145
13C-PCB-70	0.82	0.65-0.89	y	101.4	50.0-145
13C-PCB-80	0.80	0.65-0.89	y	101.7	50.0-145
13C-PCB-81	0.79	0.65-0.89	y	91.1	50.0-145
13C-PCB-77	0.82	0.65-0.89	y	90.8	50.0-145
13C-PCB-104	1.61	1.32-1.78	y	100.9	50.0-145
13C-PCB-95	1.63	1.32-1.78	y	113.1	50.0-145
13C-PCB-101	1.69	1.32-1.78	y	103.6	50.0-145
13C-PCB-97	1.65	1.32-1.78	y	100.2	50.0-145
13C-PCB-123	1.65	1.32-1.78	y	99.5	50.0-145
13C-PCB-118	1.63	1.32-1.78	y	97.5	50.0-145
13C-PCB-114	1.59	1.32-1.78	y	111.0	50.0-145
13C-PCB-105	1.60	1.32-1.78	y	109.1	50.0-145
13C-PCB-127	1.61	1.32-1.78	y	110.7	50.0-145
13C-PCB-126	1.59	1.32-1.78	y	112.3	50.0-145
13C-PCB-155	1.29	1.05-1.43	y	107.4	50.0-145
13C-PCB-153	1.26	1.05-1.43	y	96.7	50.0-145
13C-PCB-141	1.28	1.05-1.43	y	97.0	50.0-145
13C-PCB-138	1.26	1.05-1.43	y	98.9	50.0-145
13C-PCB-159	1.29	1.05-1.43	y	99.4	50.0-145
13C-PCB-167	1.27	1.05-1.43	y	99.7	50.0-145
13C-PCB-156	1.28	1.05-1.43	y	100.3	50.0-145
13C-PCB-157	1.28	1.05-1.43	y	106.9	50.0-145

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-169	1.28	1.05-1.43	y	102.3	50 - 145
13C-PCB-188	0.46	0.38-0.52	y	102.9	50 - 145
13C-PCB-180	0.47	0.38-0.52	y	102.4	50 - 145
13C-PCB-170	0.47	0.38-0.52	y	105.5	50 - 145
13C-PCB-189	0.46	0.38-0.52	y	105.6	50 - 145
13C-PCB-202	0.93	0.76-1.02	y	127.8	50 - 145
13C-PCB-194	0.92	0.76-1.02	y	100.8	50 - 145
13C-PCB-208	0.79	0.65-0.89	y	85.4	50 - 145
13C-PCB-206	0.78	0.65-0.89	y	85.5	50 - 145
13C-PCB-209	1.23	0.99-1.33	y	89.2	50 - 145

CRS vs. RS

13C-PCB-79	0.79	0.65-0.89	y	94.3	75 - 125
13C-PCB-178	0.47	0.38-0.52	y	103.8	75 - 125

Analyst: MJ

Date: 8/2/17

Client ID: PCB CS3 17C0311 Filename: 170801E1 S:1 Acq: 1-AUG-17 13:35:50 ConCal: ST170801E1-1

Lab ID: ST170801E1-1 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	1.28e+08	3.15 y	1.36	16:03	1.001	0.996	1.006	44.0146
PCB-2	1.32e+08	3.15 y	1.30	18:27	0.988	0.983	0.993	44.7907
PCB-3	1.32e+08	3.15 y	1.33	18:41	1.001	0.996	1.006	44.1487
PCB-4/10	2.03e+08	1.59 y	1.32	20:04	1.003	0.997	1.007	106.596
PCB-7/9	2.51e+08	1.59 y	1.00	21:52	0.867	0.864	0.871	110.349
PCB-6	1.23e+08	1.60 y	0.99	22:31	0.893	0.888	0.897	54.7882
PCB-5/8	2.53e+08	1.60 y	1.03	22:56	0.909	0.905	0.915	108.040
PCB-14	1.51e+08	1.59 y	1.16	24:02	0.953	0.948	0.958	57.4063
PCB-11	1.30e+08	1.60 y	1.03	25:14	1.000	0.996	1.006	55.7004
PCB-12/13	2.58e+08	1.59 y	1.03	25:38	1.016	1.011	1.021	110.857
PCB-15	1.45e+08	1.57 y	1.17	25:57	1.029	1.023	1.033	54.7171
PCB-19	7.77e+07	1.09 y	1.52	24:13	1.001	0.996	1.006	40.5722
PCB-30	1.25e+08	1.09 y	2.51	25:07	1.038	1.033	1.043	39.4242
PCB-18	8.30e+07	1.09 y	1.11	25:52	0.954	0.949	0.959	43.5053
PCB-17	9.10e+07	1.08 y	1.21	26:02	0.960	0.955	0.965	43.6750
PCB-24/27	2.36e+08	1.08 y	1.61	26:37	0.981	0.976	0.986	85.0260
PCB-16/32	1.93e+08	1.08 y	1.35	27:08	1.000	0.995	1.005	82.7140
PCB-34	1.34e+08	1.07 y	0.98	27:56	0.960	0.955	0.965	61.7019
PCB-23	1.11e+08	1.04 y	0.93	28:02	0.964	0.958	0.968	53.6497
PCB-29	1.25e+08	1.06 y	0.97	28:17	0.972	0.967	0.977	58.2178
PCB-26	1.23e+08	1.05 y	0.96	28:29	0.979	0.975	0.985	57.6582
PCB-25	1.14e+08	1.06 y	0.87	28:38	0.984	0.980	0.990	58.7357
PCB-31	1.25e+08	1.04 y	1.00	29:00	0.997	0.992	1.002	56.4581
PCB-28	1.29e+08	1.06 y	0.93	29:07	1.001	0.995	1.005	62.3682
PCB-20/21/33	3.56e+08	1.05 y	0.89	29:43	1.022	1.017	1.027	181.463
PCB-22	1.15e+08	1.06 y	0.93	30:09	1.036	1.032	1.042	55.7724
PCB-36	1.23e+08	1.07 y	0.94	30:47	0.934	0.929	0.939	60.9773
PCB-39	1.34e+08	1.06 y	1.01	31:15	0.948	0.943	0.953	61.9047
PCB-38	1.17e+08	1.05 y	0.90	32:02	0.972	0.966	0.976	60.4439
PCB-35	1.19e+08	1.06 y	0.89	32:32	0.987	0.982	0.992	62.4549
PCB-37	1.35e+08	1.06 y	1.03	32:58	1.000	0.995	1.005	61.0742
PCB-54	9.77e+07	0.79 y	1.17	27:58	1.001	0.996	1.006	46.4100
PCB-50	7.85e+07	0.79 y	0.94	29:09	1.043	1.038	1.048	46.5970
PCB-53	7.86e+07	0.79 y	1.19	29:48	0.946	0.941	0.951	44.2519
PCB-51	7.91e+07	0.80 y	1.25	30:09	0.957	0.952	0.962	42.2668
PCB-45	7.07e+07	0.79 y	1.08	30:34	0.970	0.966	0.976	44.0260
PCB-46	7.08e+07	0.79 y	1.01	31:04	0.986	0.981	0.991	47.0128

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	1.94e+08	0.79 y	1.387	31:33	1.001	0.996	1.006	93.4602
PCB-73	1.08e+08	0.80 y	1.506	31:40	1.005	1.000	1.010	48.0591
PCB-43/49	1.72e+08	0.79 y	1.198	31:50	1.010	1.005	1.015	96.2400
PCB-47	9.21e+07	0.79 y	1.187	32:02	1.001	0.995	1.005	48.6263
PCB-48/75	2.03e+08	0.80 y	1.385	32:08	1.004	0.999	1.009	91.7573
PCB-65	9.97e+07	0.79 y	1.308	32:24	1.012	1.007	1.017	47.7898
PCB-62	1.01e+08	0.80 y	1.383	32:31	1.016	1.011	1.021	45.8011
PCB-44	7.08e+07	0.80 y	0.958	32:49	1.025	1.020	1.030	46.3034
PCB-42/59	1.95e+08	0.80 y	1.324	33:03	1.033	1.027	1.037	92.5115
PCB-41/64/71/72	4.23e+08	0.79 y	1.378	33:38	1.051	1.046	1.056	192.309
PCB-68	1.24e+08	0.80 y	1.628	33:54	1.059	1.054	1.064	47.6823
PCB-40	6.78e+07	0.78 y	0.911	34:07	1.066	1.061	1.071	46.6866
PCB-57	1.17e+08	0.79 y	1.227	34:28	0.970	0.965	0.975	45.8975
PCB-67	1.13e+08	0.88 y	1.210	34:47	0.979	0.974	0.984	44.8749
PCB-58	1.26e+08	0.73 y	1.279	34:54	0.982	0.977	0.987	47.3767
PCB-63	1.24e+08	0.79 y	1.305	35:03	0.987	0.981	0.991	45.9234
PCB-74	1.23e+08	0.80 y	1.311	35:20	0.995	0.990	1.000	45.0192
PCB-61/70	2.42e+08	0.79 y	1.234	35:31	0.999	0.995	1.005	94.3378
PCB-76/66	2.49e+08	0.79 y	1.288	35:44	1.006	1.000	1.010	92.9913
PCB-80	1.45e+08	0.80 y	1.487	35:58	1.001	0.996	1.006	46.2153
PCB-55	1.32e+08	0.79 y	1.364	36:17	1.009	1.004	1.014	45.6232
PCB-56/60	2.41e+08	0.79 y	1.254	36:47	1.023	1.018	1.028	90.9973
PCB-79	1.17e+08	0.79 y	1.340	37:51	1.053	1.048	1.058	41.3010
PCB-78	1.12e+08	0.79 y	1.291	38:33	0.987	0.982	0.992	45.4869
PCB-81	1.21e+08	0.79 y	1.381	39:04	1.000	0.995	1.005	46.1948
PCB-77	1.17e+08	0.81 y	1.417	39:40	1.000	0.995	1.005	45.7255
PCB-104	7.02e+07	1.60 y	1.467	32:40	1.000	0.996	1.006	45.7055
PCB-96	6.48e+07	1.62 y	1.290	33:56	1.039	1.034	1.044	47.9250
PCB-103	6.18e+07	1.59 y	1.186	34:29	1.056	1.051	1.061	49.6773
PCB-100	6.30e+07	1.59 y	1.178	34:50	1.066	1.061	1.071	50.9948
PCB-94	5.31e+07	1.61 y	1.252	35:18	0.985	0.981	0.991	45.1901
PCB-95/98/102	1.78e+08	1.57 y	1.402	35:48	0.999	0.994	1.004	134.928
PCB-93	5.43e+07	1.73 y	1.178	35:56	1.003	0.998	1.008	49.1270
PCB-88/91	1.10e+08	1.59 y	1.320	36:13	1.011	1.006	1.016	88.8400
PCB-121	8.17e+07	1.62 y	1.892	36:20	1.014	1.009	1.019	45.9987
PCB-84/92	1.06e+08	1.62 y	1.298	37:08	0.990	0.985	0.995	94.6197
PCB-89	5.03e+07	1.60 y	1.227	37:20	0.995	0.990	1.000	47.5508

Integrations by Analyst: MI

Date: 8/2/17

Reviewed by Analyst: [illegible]

Date: 8/3/17

Client ID: PCB CS3 17C0311 Filename: 170801E1 S:1 Acq: 1-AUG-17 13:35:50 ConCal: ST170801E1-1

Lab ID: ST170801E1-1 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc
PCB-90/101	1.16e+08	1.59 y	1.47	37:31	1.000	0.995-1.005	91.9749
PCB-113	6.65e+07	1.58 y	1.65	37:46	1.007	1.001-1.011	46.6907
PCB-99	5.67e+07	1.61 y	1.48	37:52	1.009	1.004-1.014	44.4677
PCB-119	7.52e+07	1.59 y	2.25	38:19	0.987	0.982-0.992	46.1258
PCB-108/112	1.13e+08	1.60 y	1.71	38:28	0.991	0.986-0.996	91.1229
PCB-83	6.85e+07	1.61 y	2.05	38:38	0.995	0.990-1.000	46.2186
PCB-97	5.16e+07	1.64 y	1.56	38:50	1.001	0.995-1.005	45.5861
PCB-86	4.02e+07	1.58 y	1.20	38:58	1.004	0.999-1.009	46.3384
B-87/117/125	1.87e+08	1.59 y	1.91	39:06	1.008	1.002-1.012	135.156
PCB-111/115	1.48e+08	1.74 y	2.24	39:16	1.012	1.006-1.016	91.1967
PCB-85/116	1.09e+08	1.44 y	1.66	39:23	1.015	1.010-1.020	90.2548
PCB-120	7.85e+07	1.62 y	2.43	39:37	1.021	1.016-1.026	44.5778
PCB-110	6.41e+07	1.61 y	1.98	39:46	1.025	1.019-1.029	44.7513
PCB-82	4.06e+07	1.60 y	0.91	40:23	0.976	0.971-0.981	46.5015
PCB-124	6.96e+07	1.61 y	1.59	41:05	0.993	0.988-0.998	45.4635
PCB-107/109	1.43e+08	1.61 y	1.58	41:13	0.996	0.991-1.001	93.6095
PCB-123	6.83e+07	1.59 y	1.58	41:23	1.000	0.996-1.006	44.8906
- PCB-106/118	1.46e+08	1.60 y	1.57	41:36	1.001	0.996-1.006	92.9521
- PCB-114	1.07e+08	1.58 y	1.18	42:13	1.000	0.995-1.005	57.7042
PCB-122	9.18e+07	1.64 y	1.07	42:21	1.004	0.999-1.009	54.6842
PCB-105	1.05e+08	1.58 y	1.23	43:05	1.000	0.995-1.005	56.0030
PCB-127	9.59e+07	1.59 y	1.03	43:25	1.000	0.995-1.005	56.0339
PCB-126	9.99e+07	1.59 y	1.12	45:18	1.000	0.995-1.005	57.0987
PCB-155	5.31e+07	1.29 y	1.31	37:05	1.001	0.966-1.006	48.1211
PCB-150	4.65e+07	1.33 y	1.22	38:20	1.034	1.030-1.040	45.0819
PCB-152	4.54e+07	1.30 y	1.24	38:48	1.047	1.042-1.052	43.2773
PCB-145	4.32e+07	1.30 y	1.20	39:15	1.059	1.054-1.064	42.8558
PCB-136	4.59e+07	1.29 y	1.28	39:35	1.068	1.063-1.073	42.6243
PCB-148	3.23e+07	1.31 y	0.91	39:42	1.071	1.066-1.076	42.2979
PCB-154	3.55e+07	1.31 y	1.00	40:11	1.084	1.079-1.089	42.2385
PCB-151	3.36e+07	1.27 y	0.92	40:49	1.101	1.097-1.107	43.4898
PCB-135	3.15e+07	1.30 y	0.88	41:01	1.107	1.101-1.113	42.3832
PCB-144	3.74e+07	1.31 y	0.98	41:08	1.110	1.105-1.116	45.0781
PCB-147	3.11e+07	1.28 y	0.87	41:16	1.114	1.108-1.120	42.6099
PCB-139/149	7.01e+07	1.30 y	0.98	41:32	1.121	1.115-1.127	84.8008
- PCB-140	3.22e+07	1.31 y	0.89	41:43	1.126	1.120-1.132	43.0049
- PCB-134/143	1.37e+08	1.26 y	0.95	42:09	0.975	0.970-0.980	95.0327

Name	Resp	RA	RRF	RT	RRT	LCL UCL	Conc
PCB-131/133	1.37e+08	1.25 y	0.94	42:27	0.982	0.977-0.987	95.6563
PCB-142	6.71e+07	1.26 y	0.91	42:36	0.986	0.981-0.991	48.4251
PCB-146/165	1.68e+08	1.26 y	1.18	42:50	0.991	0.986-0.996	93.9812
PCB-132/161	1.70e+08	1.26 y	1.17	43:04	0.996	0.992-1.002	95.3710
PCB-153	8.43e+07	1.26 y	1.21	43:15	1.001	0.995-1.005	45.9587
PCB-168	1.04e+08	1.26 y	1.46	43:27	1.005	1.000-1.010	47.1227
PCB-141	7.77e+07	1.23 y	1.30	43:58	1.000	0.996-1.006	46.8998
PCB-137	7.88e+07	1.25 y	1.32	44:22	1.009	1.004-1.014	46.6630
PCB-130	6.75e+07	1.25 y	1.07	44:27	1.011	1.007-1.017	49.5148
PCB-138/163/164	2.74e+08	1.25 y	1.43	44:51	1.001	0.996-1.006	141.221
PCB-158/160	2.02e+08	1.26 y	1.57	45:04	1.006	1.001-1.011	94.4034
PCB-129	6.64e+07	1.25 y	1.05	45:18	1.011	1.007-1.017	46.5014
PCB-166	1.01e+08	1.26 y	1.31	45:46	0.993	0.988-0.998	47.2004
PCB-159	1.08e+08	1.25 y	1.42	46:06	1.000	0.995-1.005	46.1814
PCB-128/162	1.78e+08	1.25 y	1.15	46:23	1.006	1.002-1.012	94.1683
PCB-167	1.04e+08	1.26 y	1.32	46:46	1.000	0.995-1.005	47.2232
PCB-156	1.10e+08	1.26 y	1.38	48:04	1.001	0.995-1.005	47.6182
PCB-157	1.16e+08	1.26 y	1.38	48:20	1.000	0.995-1.005	47.3148
PCB-169	1.02e+08	1.24 y	1.27	50:32	1.000	0.995-1.005	48.2111
PCB-188	7.91e+07	1.06 y	1.78	42:53	1.000	0.996-1.006	44.0224
PCB-184	7.29e+07	1.05 y	1.63	43:19	1.011	1.006-1.016	44.1803
PCB-179	7.31e+07	1.08 y	1.63	44:06	1.029	1.024-1.034	44.4228
PCB-176	7.81e+07	1.06 y	1.77	44:34	1.040	1.035-1.045	43.8011
PCB-186	7.92e+07	1.06 y	1.77	45:10	1.054	1.049-1.059	44.1810
PCB-178	5.86e+07	1.05 y	1.28	45:40	1.066	1.061-1.071	45.3424
PCB-175	5.86e+07	1.06 y	1.30	46:01	1.074	1.069-1.079	44.6024
PCB-182/187	1.25e+08	1.07 y	1.41	46:11	1.078	1.073-1.083	88.1653
PCB-183	6.80e+07	1.06 y	1.51	46:30	1.085	1.080-1.090	44.4819
PCB-185	6.00e+07	1.08 y	1.78	47:09	0.956	0.951-0.961	47.2542
PCB-174	5.06e+07	1.04 y	1.70	47:31	0.963	0.958-0.968	41.6436
PCB-181	6.25e+07	1.07 y	1.80	47:37	0.965	0.960-0.970	48.7892
PCB-177	5.30e+07	1.07 y	1.59	47:47	0.969	0.964-0.974	46.8164
PCB-171	6.14e+07	1.06 y	1.84	48:05	0.975	0.969-0.979	46.6500
PCB-173	5.23e+07	1.08 y	1.50	48:30	0.983	0.978-0.988	48.9714
PCB-172	5.78e+07	1.05 y	1.77	48:57	0.992	0.987-0.997	45.7511
PCB-192	7.46e+07	1.07 y	2.29	49:08	0.996	0.991-1.001	45.5858
PCB-180	5.87e+07	1.07 y	1.82	49:21	1.000	0.995-1.005	45.2253

Integrations by Analyst: MJ

Date: 8/2/17

Client ID: PCB CS3 17C0311 Filename: 170801E1 S:1 Acq: 1-AUG-17 13:35:50 ConCal: ST170801E1-1
Lab ID: ST170801E1-1 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL UCL	Conc
	PCB-193	7.84e+07	1.07	y	2.38	49:34	1.005	0.999-1.009	46.1592
	PCB-191	7.99e+07	1.07	y	2.44	49:49	1.010	1.005-1.015	45.8837
	PCB-170	5.70e+07	1.08	y	1.96	50:57	1.000	0.995-1.005	45.7680
	PCB-190	8.07e+07	1.06	y	2.72	51:08	1.004	0.999-1.009	46.5836
	PCB-189	8.01e+07	1.07	y	1.97	52:33	1.000	0.995-1.005	45.9231
	PCB-202	4.80e+07	0.91	y	1.29	48:17	1.001	0.995-1.005	42.3629
	PCB-201	5.11e+07	0.93	y	1.40	48:46	1.011	1.005-1.015	41.5934
	PCB-204	4.88e+07	0.88	y	1.32	48:55	1.014	1.009-1.019	42.2217
	PCB-197	5.30e+07	0.93	y	1.48	49:13	1.020	1.015-1.025	40.8809
	PCB-200	4.87e+07	0.92	y	1.38	50:07	1.039	1.034-1.044	40.3549
	PCB-198	3.72e+07	0.92	y	1.02	51:35	1.069	1.063-1.073	41.8407
	PCB-199	3.59e+07	0.92	y	0.94	51:42	1.071	1.065-1.075	43.7670
-	PCB-196/203	7.77e+07	0.90	y	1.07	51:59	1.077	1.071-1.081	83.2636
-	PCB-195	6.37e+07	0.91	y	1.01	53:13	0.984	0.979-0.989	55.6146
	PCB-194	6.82e+07	0.89	y	1.11	54:06	1.000	0.995-1.005	54.2460
	PCB-205	8.93e+07	0.90	y	1.43	54:22	1.005	1.000-1.010	54.9718
	PCB-208	8.23e+07	1.32	y	1.16	53:22	1.000	0.995-1.005	45.9270
	PCB-207	8.43e+07	1.34	y	1.18	53:41	1.006	1.001-1.011	46.0656
	PCB-206	5.36e+07	1.33	y	0.98	55:39	1.000	0.995-1.005	45.9229
	PCB-209	7.44e+07	1.20	y	1.56	56:57	1.000	0.995-1.005	43.8016

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	3.92e+08	3.15	y	16:03	1.33	132.954	
Total Di-PCB	1.52e+09	1.59	y	20:04	1.05	662.979	
Total Tri-PCB	8.05e+08	1.09	y	24:13	1.54	334.917	
Total Tri-PCB	1.99e+09	1.07	y	27:56	0.94	966.747	Sum:1301.66
Total Tetra-PCB	4.44e+09	0.79	y	27:58	1.25	1962.89	
Total Penta-PCB	2.54e+09	1.60	y	32:40	1.47	1891.87	
Total Penta-PCB	5.26e+08	1.58	y	42:13	1.13	296.530	Sum:2188.40
Total Hexa-PCB	5.38e+08	1.29	y	37:05	1.05	607.863	
Total Hexa-PCB	2.48e+09	1.26	y	42:09	1.23	1339.47	Sum:1947.33
Total Hepta-PCB	1.61e+09	1.06	y	42:53	1.72	1097.57	
Total Octa-PCB	4.00e+08	0.91	y	48:17	1.22	376.285	
Total Octa-PCB	2.24e+08	0.91	y	53:13	1.18	166.681	Sum:542.966
Total Nona-PCB	2.21e+08	1.32	y	53:22	1.12	138.501	
Total Deca-PCB	7.44e+07	1.20	y	56:57	1.56	43.8016	

Total PCB Conc:9940.49153300

Integrations by Analyst: MJ

Date: 8/2/17

Client ID: PCB CS3 17C0311 Filename: 170801E1 S:1 Acq: 1-AUG-17 13:35:50 ConCal: ST170801E1-1
Lab ID: ST170801E1-1 GC Column ID: ZB-1 ICal: PCBVG8-3-13-17 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	2.13e+08	3.23 y	0.70	16:02	0.618	0.617	0.623	128	128
13C-PCB-3	2.26e+08	3.24 y	0.79	18:40	0.720	0.717	0.725	121	121
13C-PCB-4	1.45e+08	1.56 y	0.54	20:01	0.772	0.769	0.777	113	113
13C-PCB-9	2.27e+08	1.58 y	0.89	21:49	0.842	0.838	0.846	108	108
13C-PCB-11	2.27e+08	1.55 y	0.93	25:13	0.973	0.968	0.978	103	103
13C-PCB-19	1.26e+08	1.09 y	0.41	24:12	0.933	0.928	0.938	131	131
13C-PCB-28	2.22e+08	1.05 y	1.04	29:05	1.004	0.999	1.009	104	104
13C-PCB-32	1.72e+08	1.09 y	0.63	27:07	1.046	1.041	1.051	116	116
13C-PCB-37	2.15e+08	1.06 y	1.00	32:58	1.138	1.132	1.144	106	106
13C-PCB-47	1.60e+08	0.80 y	0.80	32:01	0.871	0.867	0.875	97.0	97.0
13C-PCB-52	1.49e+08	0.80 y	0.74	31:31	0.857	0.853	0.861	97.5	97.5
13C-PCB-54	1.80e+08	0.80 y	0.94	27:57	0.760	0.757	0.765	93.2	93.2
13C-PCB-70	2.08e+08	0.82 y	0.99	35:32	0.967	0.961	0.971	101	101
13C-PCB-77	1.81e+08	0.82 y	0.97	39:38	1.078	1.073	1.083	90.8	90.8
13C-PCB-80	2.12e+08	0.80 y	1.01	35:57	0.978	0.973	0.983	102	102
13C-PCB-81	1.90e+08	0.79 y	1.01	39:03	1.062	1.057	1.067	91.1	91.1
13C-PCB-95	9.39e+07	1.63 y	0.80	35:50	0.913	0.908	0.918	113	113
13C-PCB-97	7.23e+07	1.65 y	0.70	38:48	0.989	0.984	0.994	100	100
13C-PCB-101	8.61e+07	1.69 y	0.81	37:31	0.956	0.951	0.961	104	104
13C-PCB-104	1.05e+08	1.61 y	1.01	32:40	0.832	0.828	0.836	101	101
13C-PCB-105	1.53e+08	1.60 y	1.18	43:04	0.929	0.924	0.934	109	109
13C-PCB-114	1.57e+08	1.59 y	1.18	42:12	0.911	0.905	0.915	111	111
13C-PCB-118	9.99e+07	1.63 y	0.99	41:33	1.059	1.054	1.064	97.5	97.5
13C-PCB-123	9.63e+07	1.65 y	0.94	41:22	1.054	1.049	1.059	99.5	99.5
13C-PCB-126	1.56e+08	1.59 y	1.17	45:18	0.977	0.972	0.982	112	112
13C-PCB-127	1.66e+08	1.61 y	1.26	43:25	0.937	0.931	0.941	111	111
13C-PCB-138	1.36e+08	1.26 y	1.15	44:48	0.967	0.961	0.971	98.9	98.9
13C-PCB-141	1.28e+08	1.28 y	1.11	43:58	0.949	0.943	0.953	97.0	97.0
13C-PCB-153	1.52e+08	1.26 y	1.32	43:13	0.933	0.927	0.937	96.7	96.7
13C-PCB-155	8.43e+07	1.29 y	0.76	37:04	0.944	0.939	0.949	107	107
13C-PCB-156	1.67e+08	1.28 y	1.40	48:02	1.037	1.032	1.042	100	100
13C-PCB-157	1.78e+08	1.28 y	1.40	48:19	1.042	1.038	1.048	107	107
13C-PCB-159	1.65e+08	1.29 y	1.39	46:05	0.994	0.989	0.999	99.4	99.4
13C-PCB-167	1.67e+08	1.27 y	1.41	46:46	1.009	1.004	1.014	99.7	99.7
13C-PCB-169	1.68e+08	1.28 y	1.38	50:31	1.090	1.085	1.095	102	102
13C-PCB-170	6.36e+07	0.47 y	0.83	50:56	1.103	1.093	1.103	105	105
13C-PCB-180	7.14e+07	0.47 y	0.96	49:20	1.068	1.059	1.069	102	102
13C-PCB-188	1.01e+08	0.46 y	1.36	42:51	0.928	0.919	0.929	103	103
13C-PCB-189	8.87e+07	0.46 y	1.16	52:32	1.138	1.125	1.137	106	106
13C-PCB-194	1.13e+08	0.92 y	0.74	54:05	0.995	0.990	1.000	101	101
13C-PCB-202	8.76e+07	0.93 y	0.95	48:15	1.045	1.036	1.046	128	128
13C-PCB-206	1.19e+08	0.78 y	0.91	55:38	1.024	1.019	1.029	85.5	85.5
13C-PCB-208	1.55e+08	0.79 y	1.19	53:21	0.982	0.977	0.987	85.4	85.4
13C-PCB-209	1.09e+08	1.23 y	0.80	56:57	1.048	1.044	1.054	89.2	89.2

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.99e+08	0.79 y	1.02	37:49	1.029	1.024	1.033	94.3	94.3
13C-PCB-178	6.78e+07	0.47 y	0.90	45:39	0.985	0.980	0.989	104	104

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.99e+08	0.79 y	1.01	37:49	0.969	0.963	0.973	103	103
13C-PCB-178	6.78e+07	0.47 y	0.94	45:39	0.925	0.920	0.930	101	101

RS

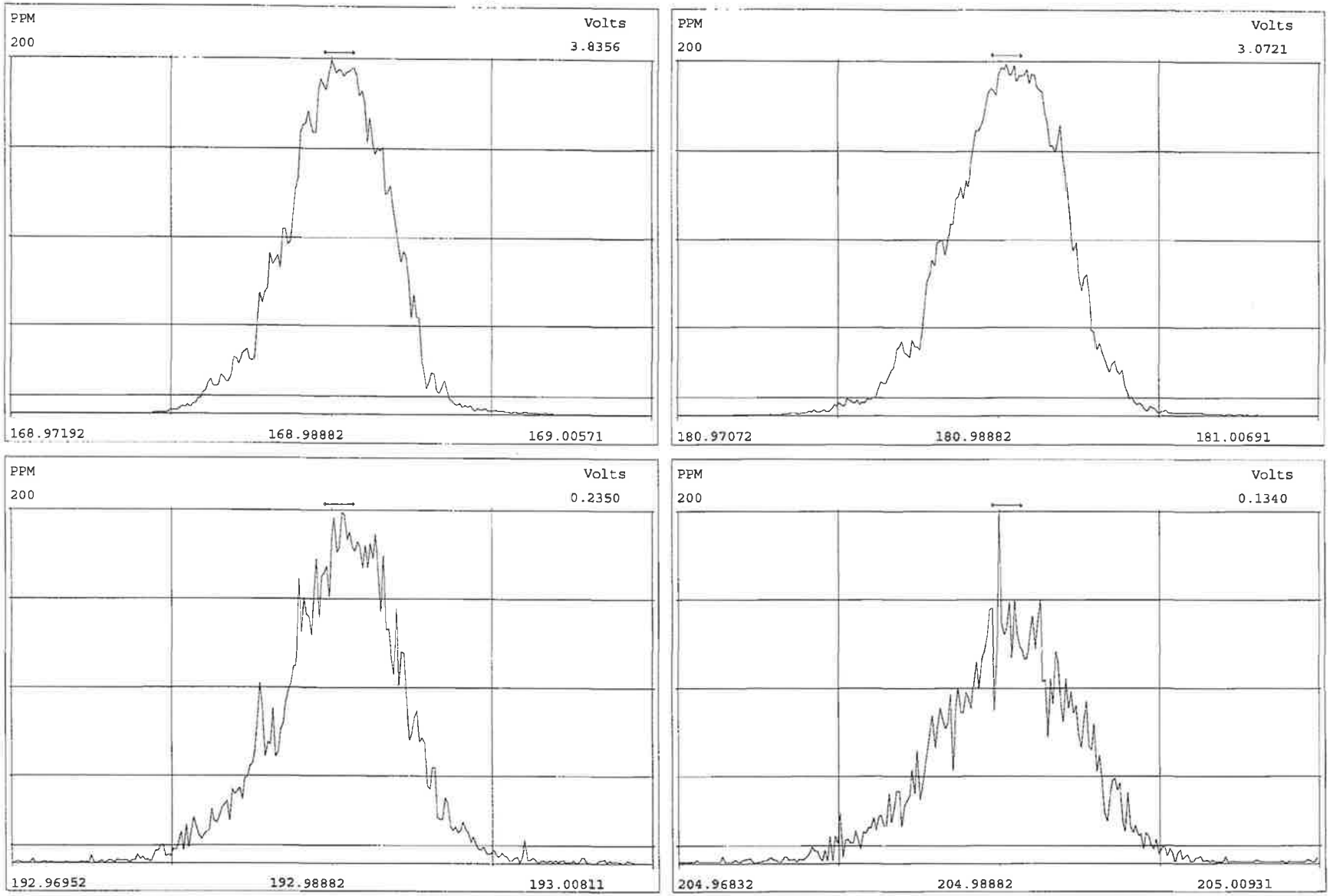
Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	2.37e+08	1.56	y	1.00	25:55	100
13C-PCB-31	2.04e+08	1.04	y	1.00	28:59	100
13C-PCB-60	2.06e+08	0.80	y	1.00	36:46	100
13C-PCB-111	1.03e+08	1.65	y	1.00	39:15	100
13C-PCB-128	1.19e+08	1.26	y	1.00	46:21	100
13C-PCB-182	7.23e+07	0.46	y	1.00	46:10	100
13C-PCB-205	1.53e+08	0.91	y	1.00	54:21	100

Analyst: ML

Date: 8/2/17

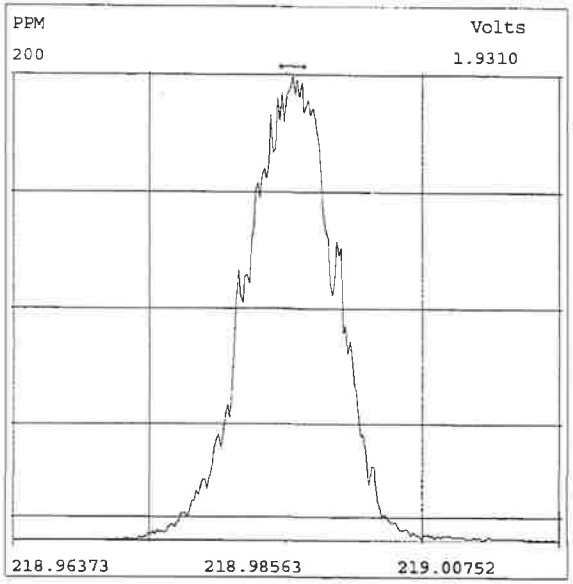
Peak Locate Examination: 1-AUG-2017:13:34 File:170801E1

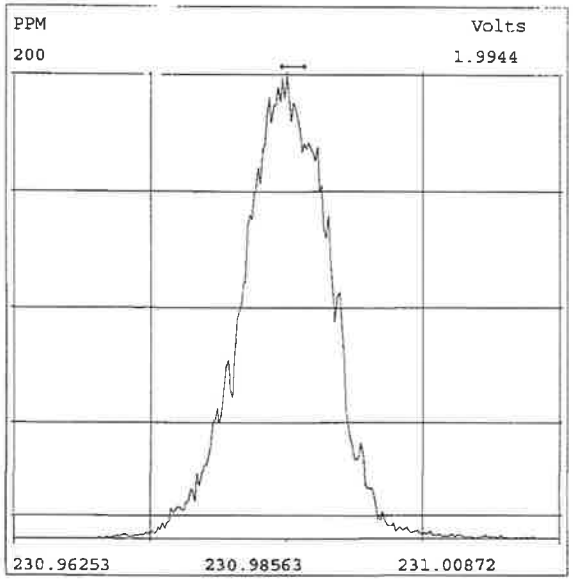
Experiment:PCB_ZB1 Function:1 Reference:PFK

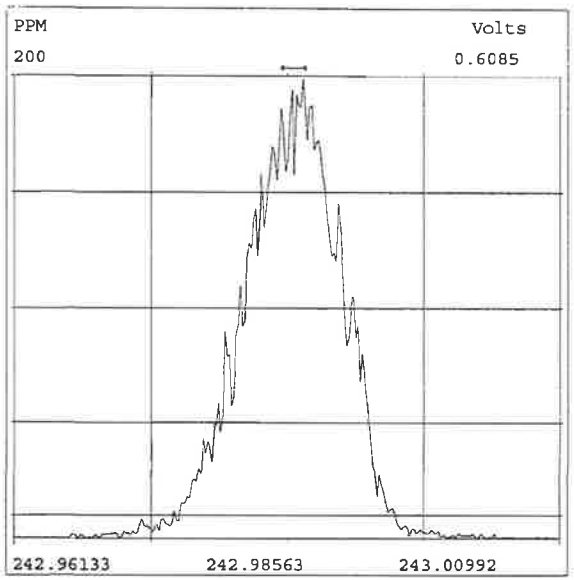


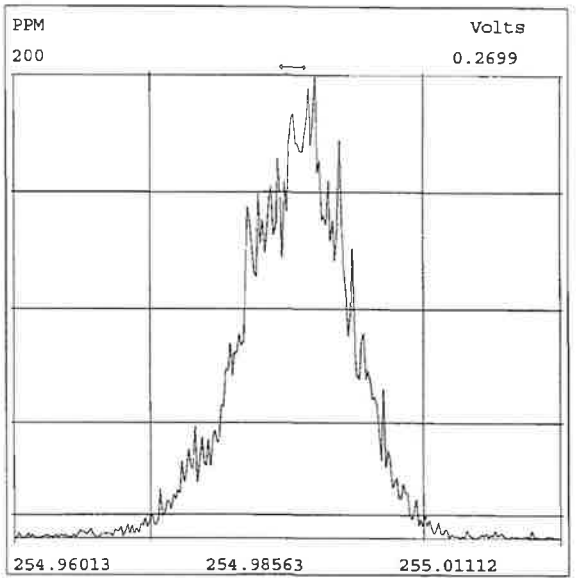
Peak Locate Examination: 1-AUG-2017:13:34 File:170801E1

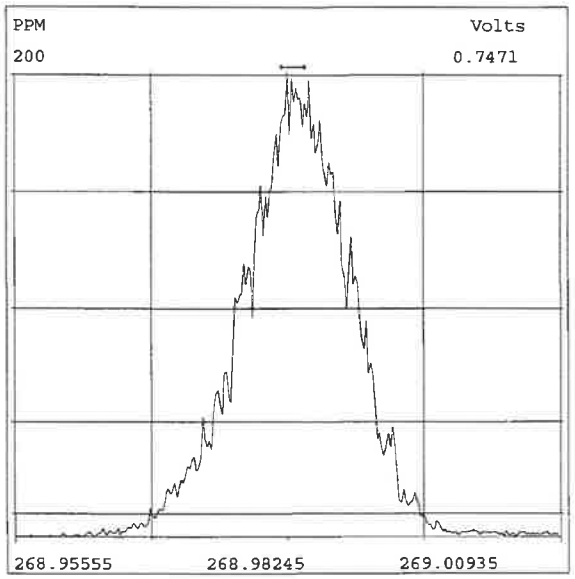
Experiment:PCB_ZB1 Function:2 Reference:PFK

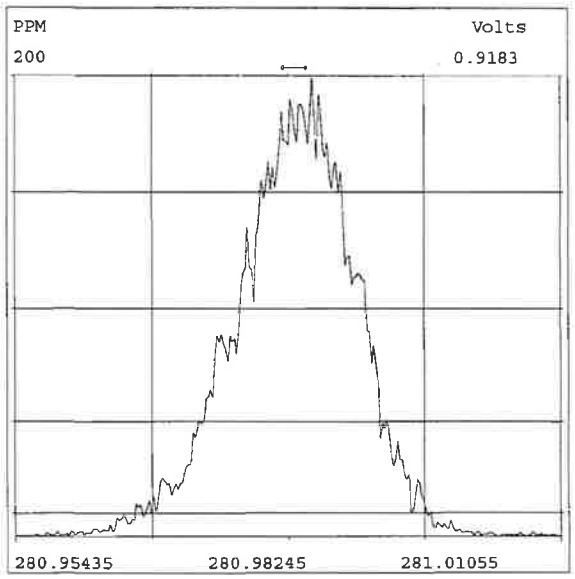






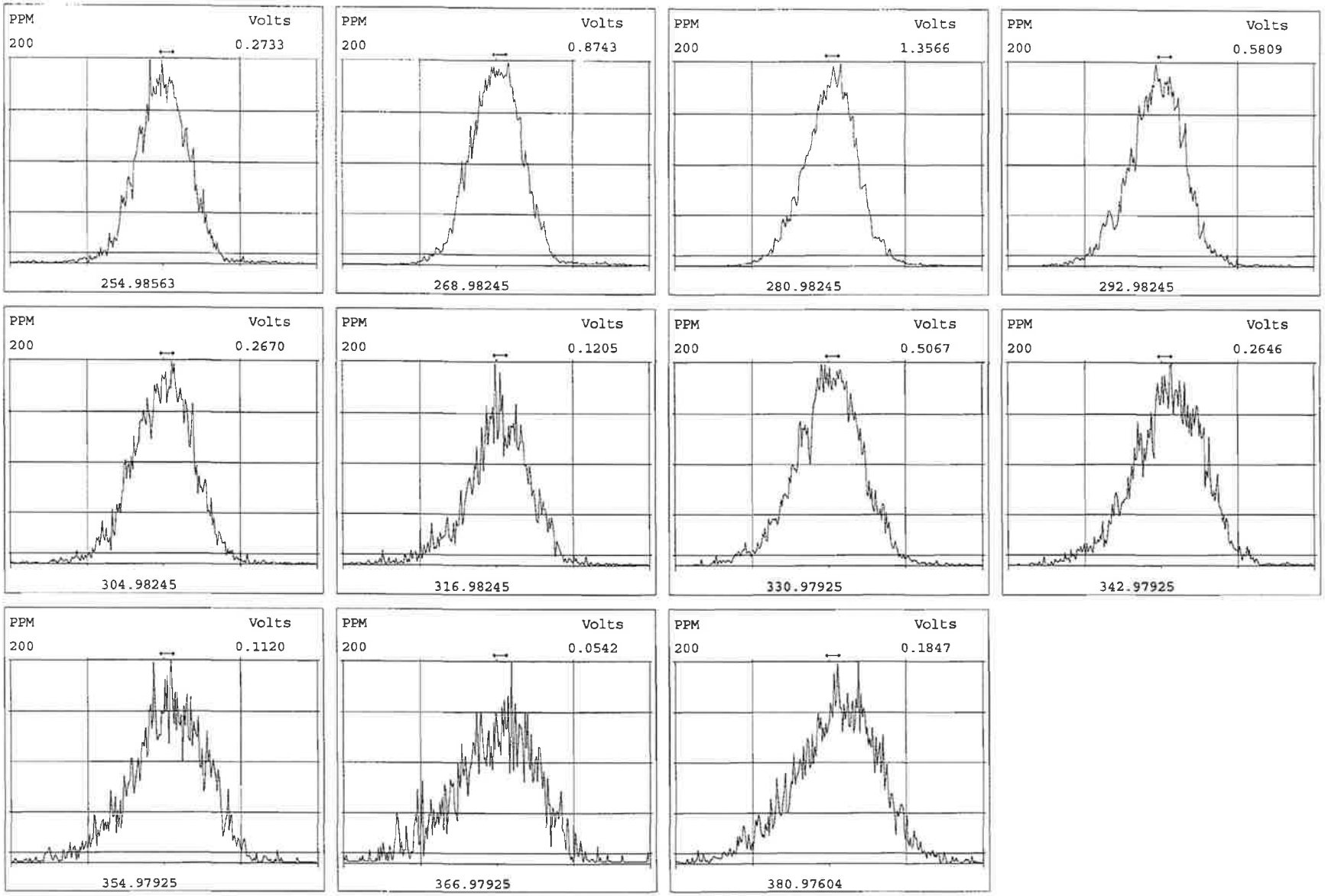






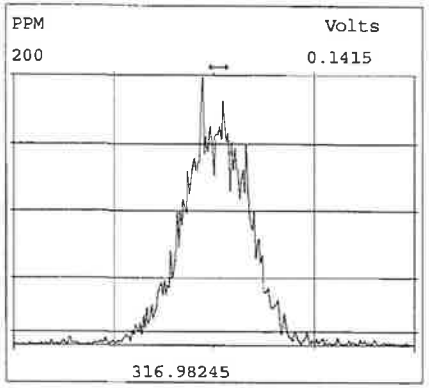
Peak Locate Examination: 1-AUG-2017:13:34 File:170801E1

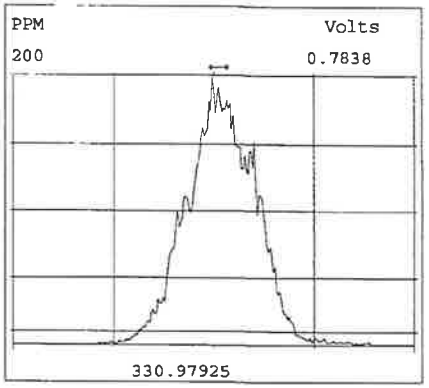
Experiment:PCB_ZB1 Function:3 Reference:PFK

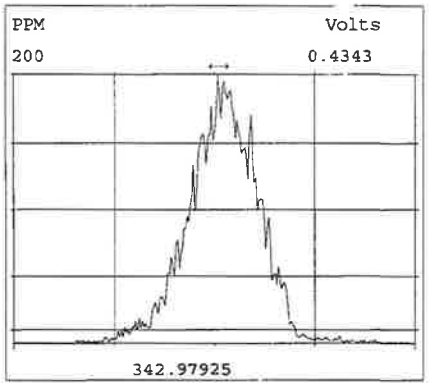


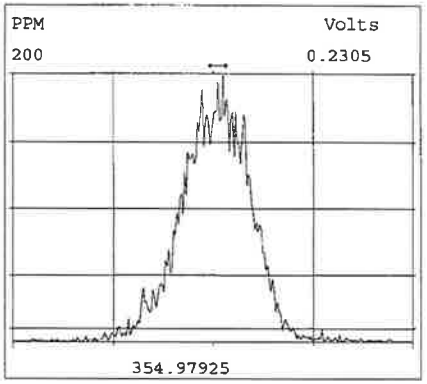
Peak Locate Examination: 1-AUG-2017:13:35 File:170801E1

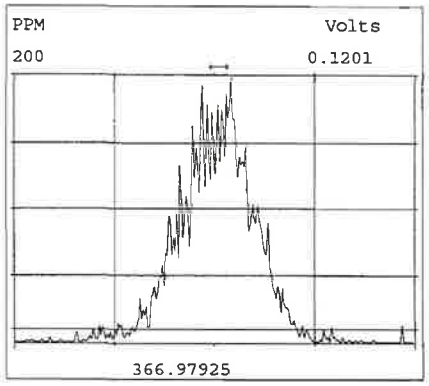
Experiment:PCB_ZB1 Function:4 Reference:PFK

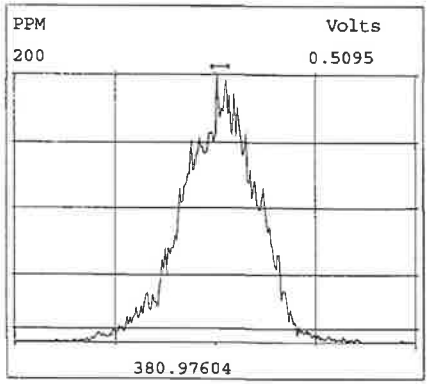


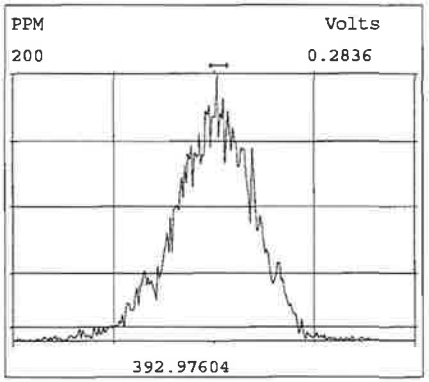


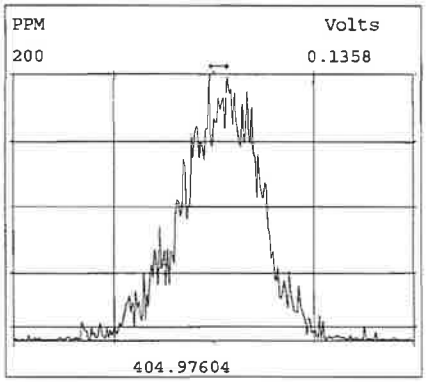


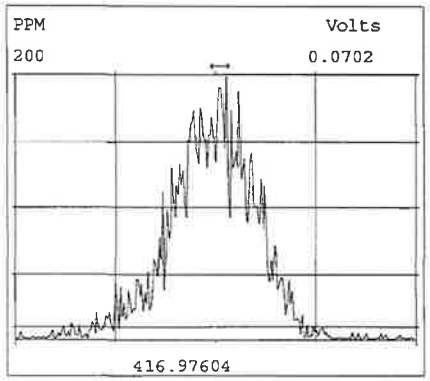


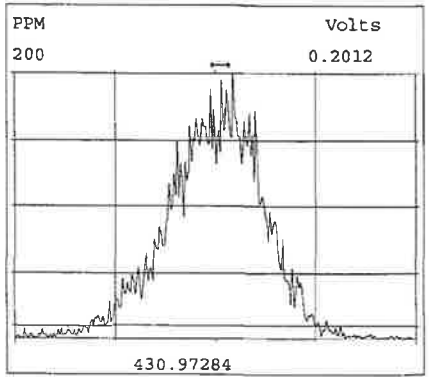


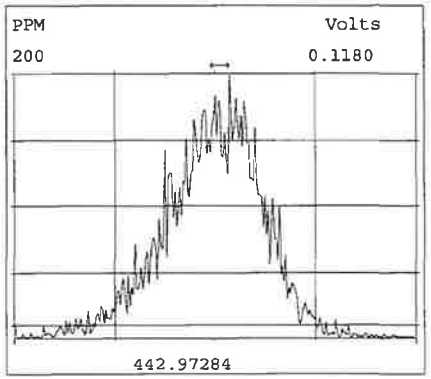






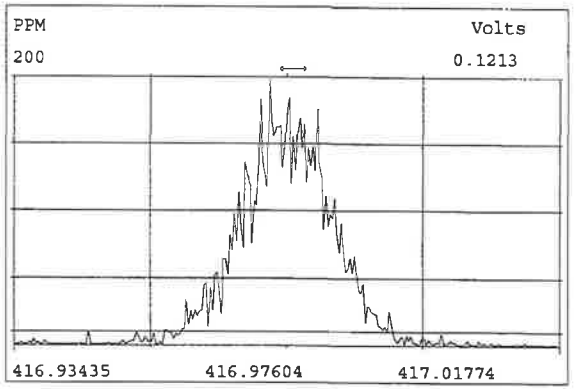


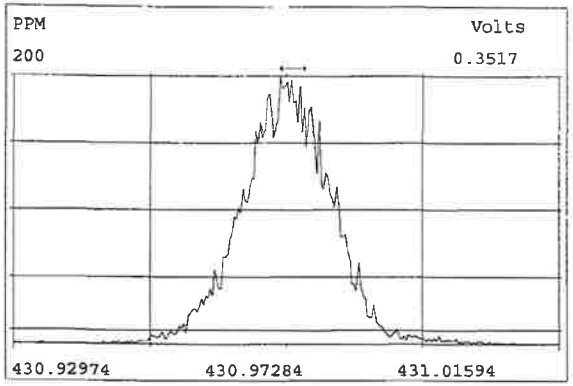


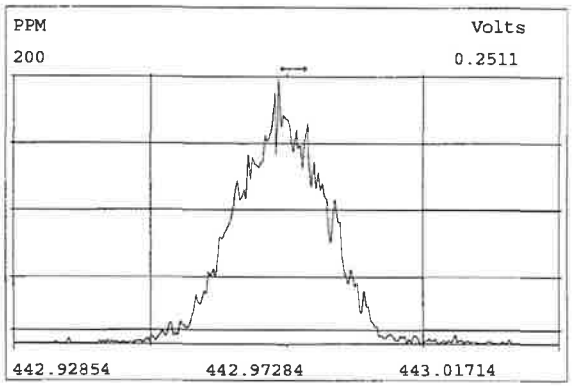


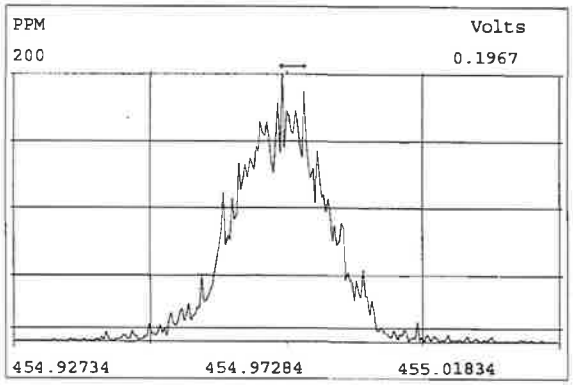
Peak Locate Examination: 1-AUG-2017:13:35 File:170801E1

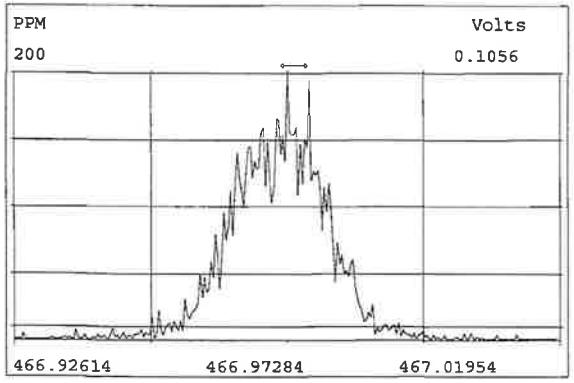
Experiment:PCB_ZB1 Function:5 Reference:PFK

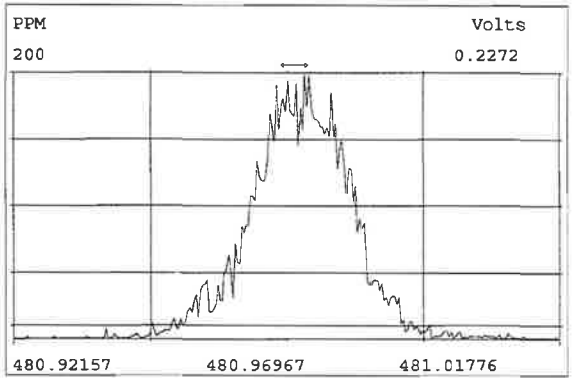


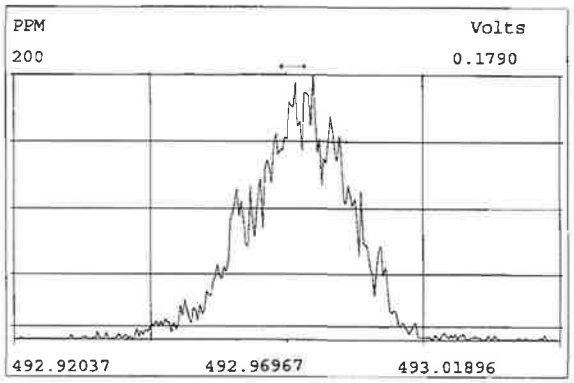


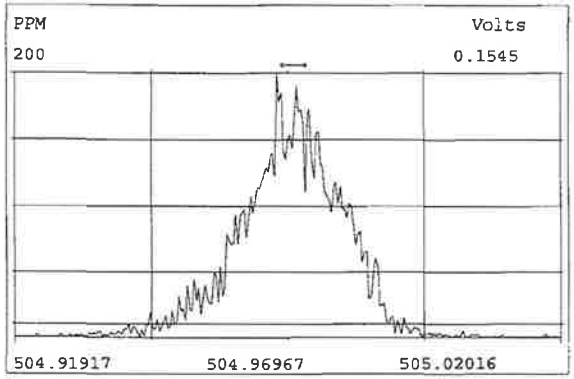


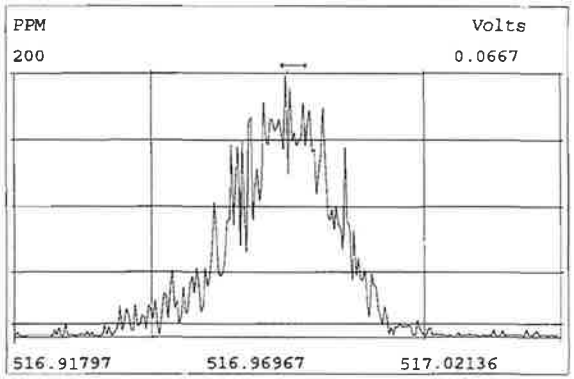












Process Sheet

Workorder: 1700918

Prep Expiration: 2018-May-15
Client: GE Energy
Method: ~~1668C Totals Only~~ 1668C Full List
Matrix: **Aqueous**
Client Matrix: Water
Also run: **Percent Solids**

Workorder Due: 10-Aug-17 00:00

TAT: 20

Prep Batch: B7G0116

Prep Data Entered: 7/26/17 BSS
Date and Initials

Initial Sequence: S7G0070

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1700918-01	☒	OWS-BAFA-T170524112919	21-Jul-17 09:12	WR-2 B-1	
1700918-02	☒	OWS-FDBL-T170524113005	21-Jul-17 09:12	WR-2 B-1	
1700918-03	☒	OWS-LHAL-T170531110644	21-Jul-17 09:12	WR-2 B-1	
1700918-04	☒	OWS-LHPO-T170531110915	21-Jul-17 09:12	WR-2 B-1	
1700918-05	☒	OWS-ROIS-T170524113548	21-Jul-17 09:12	WR-2 B-1	
1700918-06	☒	OWS-SCHU-T170524112607	21-Jul-17 09:12	WR-2 B-1	
1700918-07	☒	OWS-THIS-T170524112744	21-Jul-17 09:12	WR-2 B-1	
1700918-08	☒	OWS-WAFO-T170515132332	21-Jul-17 09:12	WR-2 B-1	
1700918-09	☒	OWS-WAFO-T170524112421	21-Jul-17 09:12	WR-2 B-1	
1700918-10	☒	OWS-WAFO-T170531111136	21-Jul-17 09:12	WR-2 B-1	

Vista PM: Martha Maier

Vial Box ID: Misha 2017

Sample Reconciled By: Brenden Schenk 7/25/17

Percent Solids

LabNumber	SampleName	% Solids	RL (%)	Date Analyzed	Batch
1700918-01	OWS-BAFA-T170524112919	ND	0.1	26-Jul-2017	B7G0115
1700918-02	OWS-FDBL-T170524113005	ND	0.1	26-Jul-2017	B7G0115
1700918-03	OWS-LHAL-T170531110644	ND	0.1	26-Jul-2017	B7G0115
1700918-04	OWS-LHPO-T170531110915	ND	0.1	26-Jul-2017	B7G0115
1700918-05	OWS-ROIS-T170524113548	ND	0.1	26-Jul-2017	B7G0115
1700918-06	OWS-SCHU-T170524112607	ND	0.1	26-Jul-2017	B7G0115
1700918-07	OWS-THIS-T170524112744	ND	0.1	26-Jul-2017	B7G0115
1700918-08	OWS-WAFO-T170515132332	ND	0.1	26-Jul-2017	B7G0115
1700918-09	OWS-WAFO-T170524112421	ND	0.1	26-Jul-2017	B7G0115
1700918-10	OWS-WAFO-T170531111136	ND	0.1	26-Jul-2017	B7G0115

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1668C Totals Only

B7G0116

Chemist: BSS

Prep Date/Time: 25-Jul-17 08:40

Prepared using: HRMS - Separatory Funnel

C	VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	~~CRS~~ PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
							N/A	C7G0096	N/A	N/A	
☐	B7G0116-BLK1	NA	NA	(1.000)	BSS MJT 7/25/17	BSS 7/25/17	N/A	BSS 7/25/17	N/A	N/A	BSS EL 7/26/17
☐	B7G0116-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
☐	1700918-01	1476.13	513.87	0.96226							
☐	1700918-02	1447.92	513.45	0.93447							
☐	1700918-03	1505.75	513.26	0.99249							
☐	1700918-04	1493.72	514.43	0.97929							
☐	1700918-05	1462.85	514.80	0.94805							
☐	1700918-06	1487.33	513.45	0.97388							
☐	1700918-07	1463.32	514.00	0.94932							
☐	1700918-08	1521.03	514.27	1.00676							
☐	1700918-09	1446.94	515.29	0.93165							
☐	1700918-10	1504.04	514.93	0.98911							

IS Name	NS Name	~~CRS~~ PS Name	RS Name	Cycle Time	APP: SEFUN SOX SDS	Check Out: Chemist/Date: BSS 7/25/17
PCDD/F ____ (V2)	PCDD/F ____ (V2)	PCDD/F ____ (V3)	PCDD/F ____ (V4)	Start Date/Time	SOLV: DCM	Check In: Chemist/Date: empty
PCB 17C2021, 10ul	PCB 16F1404, 10ul	PCB 17C2022, 10ul	PCB 17C2023 10ul	NA	Other NA	Balance ID: HRMS-9
PAH ____	PAH ____	PAH ____	PAH ____	Stop Date/Time NA	Final Volume(s) 20ul C9	

Comments: Assume 1 g = 1 mL

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B7G0115

Analyst: BSS **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

Data Entry Verified by: (Initial and Date) BSS 7/26/17

HRMS-9

Date/Time IN:	Date/Time OUT
7/25/17 9:10	7/26/17 16:00

	B	C	D	E	F	G	H	K	M	N	O	P	Q
				Intial and Date:	BSS 7/25/17	BSS 7/26/17			BSS 7/25/17				
Particle Size	SampID		SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-	Visual Inspection
	1700918-01		Sample	1.3200	12.7000	1.3200	0.0000	0.00	5	3	5	0	clear
	1700918-02		Sample	1.3100	15.1400	1.3100	0.0000	0.00	5	3	5	0	clear
	1700918-03		Sample	1.3100	13.1600	1.3200	0.0100	0.08	6	3	5	0	clear
	1700918-04		Sample	1.2800	14.6700	1.2900	0.0100	0.07	6	3	5	0	clear
	1700918-05		Sample	1.2800	13.0800	1.2800	0.0000	0.00	5	3	5	0	clear
	1700918-06		Sample	1.3300	16.9700	1.3300	0.0000	0.00	5	3	5	0	clear
	1700918-07		Sample	1.3200	21.4500	1.3200	0.0000	0.00	5	3	5	0	clear
	1700918-08		Sample	1.3000	19.8600	1.3100	0.0100	0.05	6	3	5	0	clear
	1700918-09		Sample	1.2900	15.1300	1.2900	0.0000	0.00	6	3	5	0	clear
	1700918-10		Sample	1.3100	15.2200	1.3200	0.0100	0.07	5	3	5	0	clear

SECTION 5

WET CHEMISTRY SUPPORT DOCUMENTATION

A. SDG 10388892

ENVIRONMENTAL STANDARDS

INORGANIC ANALYSIS SUPPORT DOCUMENTATION

ESI project name:	GE 2017 Hudson River RAMP	Reviewed by:	THW
Sample Collection Dates:	5/12 & 5/15/17	Approved by:	MAM
Job Number:	20115678.H000	Completion Date:	11/2017
Project Manager:	Meg Michell		
Laboratory:	Pace		

Applicable Sample No's (✓) Refer to Table 1 in the Quality Assurance Review

Deliverable:			Sample No.	Lab Control No.
	CLP (Full)	( )	10388892	
	Level IV (Full)	(x)		
	Limited	( )		
	Other:			

The following table indicates criteria that were examined, the identified problems, and support documentation attachments

	Criteria Examined in Detail Check (√) if Yes or Footnote Letter for Comments Below					Problems Identified Check (√) if Yes or Footnote Letter for Comments Below					Support Documentation Attachments Check (√) if Yes or Footnote Letter for Comments Below				
	TSS					TSS					TSS				
Holding Times	x										x				
Blank Analysis Results	x										x				
Matrix Spike (Predigestion) Results															
Duplicate Analysis: ( ) Field (x) Lab	x										x				
Quantitation of Results	x										x				
Detection Limit/Sensitivity															
Initial Calibrations															
Continuing Calibrations															
Laboratory Control Standard (LCS)	x										x				
ICP Linear Range Analysis															
ICP Interference Checks															
ICP Serial Dilutions															
ICP Post-Digestion Spike															
GFAA Post Digestion Spikes															
GFAA Duplicate Injections															
ICP Multiple Exposures															
GFAA Standard Additions															
CRDL Standards															
Condition on Receipt	x										x				
Percent Solids															
Others:															

Comments:

BLANK ANALYSIS RESULTS FOR INORGANIC PARAMETERS

Analysis Type	Matrix (Aq, S)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (mg/L)	Qualif Limit 5X
TSS	Aq	MB		None		

2: MB = Method Blank; TB = Trip Blank; EB = Equipment Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: _____

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10388892

Sample: HFL-SVDB-T170515132020 **Lab ID: 10388892001** Collected: 05/12/17 09:24 Received: 05/16/17 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**4.8**	mg/L	1.0	0.51	1		05/17/17 10:27		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10388892

Sample: HFL-SVDB-T170515132126 **Lab ID: 10388892002** Collected: 05/15/17 10:48 Received: 05/16/17 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**4.4**	mg/L	1.0	0.50	1		05/17/17 10:27		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10388892

Sample: HFL-WAFO-T170515132245 **Lab ID: 10388892003** Collected: 05/12/17 10:22 Received: 05/16/17 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**12.7**	mg/L	1.0	0.51	1		05/17/17 10:27		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10388892

Sample: OWS-WAFO-T170515132332 **Lab ID: 10388892004** Collected: 05/15/17 11:46 Received: 05/16/17 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**13.0**	mg/L	1.0	0.51	1		05/17/17 10:27		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Hudson River Remedial Action M
Pace Project No.: 10388892

QC Batch: 474410 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D TSS, Low Level
Associated Lab Samples: 10388892001, 10388892002, 10388892003, 10388892004

METHOD BLANK: 2587529 | Matrix: Water
Associated Lab Samples: 10388892001, 10388892002, 10388892003, 10388892004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<1.0	1.0	0.50	05/17/17 10:27	

LABORATORY CONTROL SAMPLE: 2587530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	92.3	92	80-120	

SAMPLE DUPLICATE: 2587531

Batch

Parameter	Units	10388324001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	7.4	7.6	3	10	

but hudson river sample from different SDG.

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM IX INORGANIC-1
METHOD DETECTION LIMITS

Lab Name: Pace Analytical - Minnesota SDG No. : 10388892 Contract: Hudson River Remedial Action M

Preparation Method: SM 2540D Instrument ID: 10WET4

Concentration Units: mg/L

Analyte	PQL	MDL	MDL Date
Total Suspended Solids	2.0	1.0	04/01/2015

based on normal volume of 500mL - 1000 mL were used

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Minnesota SDG No. : 10388892 Contract: Hudson River Remedial Action M

Preparation Method: SM 2540D Batch: WET 53510

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2587529	2587529	05/17/2017	1000	500
2587530	2587530	05/17/2017	1000	500
2587531	2587531	05/17/2017	960	500
10388892001	HFL-SVDB-	05/17/2017	980	500
10388892002	HFL-SVDB-	05/17/2017	1000	500
10388892003	HFL-WAFO-	05/17/2017	990	500
10388892004	OWS-WAFO-	05/17/2017	990	500

NA
to sample analysis. normal volume used by lab

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Minnesota SDG No. : 10388892 Contract: Hudson River Remedial Action M

Instrument ID: 10WET4 Analysis Method: SM 2540D

Start Date: 05/17/2017 10:27 End Date: 05/17/2017 10:27

Sample Name	Lab Sample ID	D/F	Date	Time	tss w
10388324001	10388324001	1	05/17/2017	10:27	X
2587529BLANK	2587529	1	05/17/2017	10:27	X
2587530LCS	2587530	1	05/17/2017	10:27	X
2587531DUP	2587531	1	05/17/2017	10:27	X
HFL-SVDB-T170515132020	10388892001	1	05/17/2017	10:27	X
HFL-SVDB-T170515132126	10388892002	1	05/17/2017	10:27	X
HFL-WAFO-T170515132245	10388892003	1	05/17/2017	10:27	X
OWS-WAFO-	10388892004	1	05/17/2017	10:27	X

Hudson River sample - different SDG.

Prep Log Report

Batch Information: WET 53510 TSS LL

Template Version: F-MN-I-326-Rev.03 (24Jan2017)

Analysis Method	SM 2540D	Analyzed By	NAS	Instrument	10WET4	Acceptance Range:	103-105 C
Oven ID	10WET77	Thermometer ID	2113652	Oven Temp Correction Factor	-1	Oven Temp In1 | Corr | Date/Time | Init	105.0 | 104.0 | 05/17/2017 10:27 | NAS
Oven Temp Out1 | Corr | Date/Time | Init	106.0 | 105.0 | 05/18/2017 12:07 | KEO	Desic. In 1 ID | Date/Time | Init	7 | 05/18/2017 12:07 | KEO	Desic. Out 1 Date/Time | Init	05/19/2017 13:24 | MMB	Oven Temp In2 | Corr | Date/Time | Init	106.0 | 105.0 | 05/19/2017 13:36 | MMB
Oven Temp Out2 | Corr | Date/Time | Init	105.0 | 104.0 | 05/21/2017 10:58 | JFP	Desic. In 2 ID | Date/Time | Init	6 | 05/21/2017 10:58 | JFP	Desic. Out 2 Date/Time | Init	05/22/2017 09:53 | MMB	Reviewed By	AR3
Reviewed By Date	05/25/2017 15:54	Batch Notes					

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	ID	TSS Final (mg/L)	TSS Posted (mg/L)	Run Date/Time	Initial Volume (mL)	TSS Filters ()	Filter Wt 1 (g)	Filter Use 1	Oven Wt 1 (g)	Oven Use 1	Oven Wt 2 (g)
2540D WLL	BLANK	2587529	Y	G087C	0.10000	0.20000	05/17/2017 10:27	1000	118381 ()	0.1135	M	0.1136	N	0.1136
2540D WLL	LCS	2587530	Y	G087D	92.300	184.60	05/17/2017 10:27	1000	118381 ()	0.1135	M	0.2059	N	0.2058
2540D WLL	RQS	10388324001	Y	G087E	7.4000	14.800	05/17/2017 10:27	1000	118381 ()	0.1168	M	0.1243	N	0.1242
2540D WLL	DUP	2587531	Y	G087F	7.6042	14.600	05/17/2017 10:27	960	118381 ()	0.1110	M	0.1184	N	0.1183
2540D WLL	PS	10388324003	Y	G087G	15.700	31.400	05/17/2017 10:27	1000	118381 ()	0.1151	M	0.1309	N	0.1308
2540D WLL	PS	10388892001	Y	G087H	4.7959	9.4000	05/17/2017 10:27	980	118381 ()	0.1126	M	0.1174	N	0.1173
2540D WLL	PS	10388892003	Y	G087I	12.727	25.200	05/17/2017 10:27	990	118381 ()	0.1100	M	0.1226	N	0.1226
2540D WLL	PS	10388892002	Y	G087J	4.4000	8.8000	05/17/2017 10:27	1000	118381 ()	0.1131	M	0.1173	N	0.1175
2540D WLL	PS	10388892004	Y	G087K	13.030	25.800	05/17/2017 10:27	990	118381 ()	0.1100	M	0.1229	N	0.1229

QC Rule	Sample Type	Lab Sample ID	Oven Use 2	Oven %Diff 1&2	Oven Wt Diff 1&2	Sample Notes	TS/TDS-SPK (mL)
2540D WLL	BLANK	2587529	Y	0.0000	0.0000		
2540D WLL	LCS	2587530	Y	0.10828	0.0001		119548 (50)

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Oven Use 2	Oven %Diff 1&2	Oven Wt Diff 1&2	Sample Notes	TS/TDS-SPK (mL)
2540D WLL	RQS	**10388324001**	Y	1.3423	0.0001		
2540D WLL	DUP	**2587531**	Y	1.3605	0.0001	2*	
2540D WLL	PS	**10388324003**	Y	0.63492	0.0001		
2540D WLL	PS	**10388892001**	Y	2.1053	0.0001	1*	
2540D WLL	PS	**10388892003**	Y	0.0000	0.0000	1*	
2540D WLL	PS	**10388892002**	Y	4.6512	0.0002		
2540D WLL	PS	**10388892004**	Y	0.0000	0.0000	1*	

Sample Notes:

1*: Insufficient sample volume

2*: Used separate bottle than parent, Insuffiecient sample volume

Standard Notes:

119548: TS/TSS/TDS Handmade Standard, Used

B. SDG 10390069

ENVIRONMENTAL STANDARDS

INORGANIC ANALYSIS SUPPORT DOCUMENTATION

ESI project name:	GE 2017 Hudson River RAMP	Reviewed by:	THW
Sample Collection Dates:	5/23 & 5/24/17	Approved by:	MAM
Job Number:	20115678.H000	Completion Date:	11/2017
Project Manager:	Meg Michell		
Laboratory:	Pace		

Applicable Sample No's (✓) Refer to Table 1 in the Quality Assurance Review

Deliverable:			Sample No.	Lab Control No.
	CLP (Full)	( )	10390069	
	Level IV (Full)	(x)		
	Limited	( )		
	Other:			

The following table indicates criteria that were examined, the identified problems, and support documentation attachments

	Criteria Examined in Detail Check (√) if Yes or Footnote Letter for Comments Below					Problems Identified Check (√) if Yes or Footnote Letter for Comments Below					Support Documentation Attachments Check (√) if Yes or Footnote Letter for Comments Below				
	TSS					TSS					TSS				
Holding Times	x										x				
Blank Analysis Results	x										x				
Matrix Spike (Predigestion) Results															
Duplicate Analysis: ( ) Field (x) Lab	x										x				
Quantitation of Results	x										x				
Detection Limit/Sensitivity															
Initial Calibrations															
Continuing Calibrations															
Laboratory Control Standard (LCS)	x										x				
ICP Linear Range Analysis															
ICP Interference Checks															
ICP Serial Dilutions															
ICP Post-Digestion Spike															
GFAA Post Digestion Spikes															
GFAA Duplicate Injections															
ICP Multiple Exposures															
GFAA Standard Additions															
CRDL Standards															
Condition on Receipt	x										x				
Percent Solids															
Others:															

Comments:

BLANK ANALYSIS RESULTS FOR INORGANIC PARAMETERS

Analysis Type	Matrix (Aq, S)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (mg/L)	Qualif Limit 5X
TSS	Aq	MB		None		

2: MB = Method Blank; TB = Trip Blank; EB = Equipment Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: _____

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10390069

Sample: OWS-BAFA-T170524112919 **Lab ID: 10390069001** Collected: 05/24/17 09:30 Received: 05/25/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**1.6**	mg/L	1.0	0.50	1		05/30/17 16:45		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10390069

Sample: OWS-ROIS-T170524113548 **Lab ID: 10390069002** Collected: 05/24/17 09:58 Received: 05/25/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**1.3**	mg/L	1.0	0.50	1		05/30/17 16:45		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10390069

Sample: OWS-SCHU-T170524112607 **Lab ID: 10390069003** Collected: 05/23/17 12:01 Received: 05/25/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**3.6**	mg/L	1.0	0.50	1		05/30/17 16:45		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10390069

Sample: OWS-THIS-T170524112744 **Lab ID: 10390069004** Collected: 05/23/17 12:53 Received: 05/25/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**2.4**	mg/L	1.0	0.50	1		05/30/17 16:45		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10390069

Sample: OWS-WAFO-T170524112421 **Lab ID: 10390069005** Collected: 05/23/17 10:35 Received: 05/25/17 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**8.3**	mg/L	1.0	0.50	1		05/30/17 16:45		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Hudson River Remedial Action M
Pace Project No.: 10390069

QC Batch: 476832 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D TSS, Low Level
Associated Lab Samples: 10390069001, 10390069002, 10390069003, 10390069004, 10390069005

METHOD BLANK: 2599347 Matrix: Water
Associated Lab Samples: 10390069001, 10390069002, 10390069003, 10390069004, 10390069005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<1.0	1.0	0.50	05/30/17 16:45	

LABORATORY CONTROL SAMPLE: 2599348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	98.4	98	80-120	

SAMPLE DUPLICATE: 2599349

Parameter	Units	10390069003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3.6	3.7	3	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM IX INORGANIC-1
METHOD DETECTION LIMITS

Lab Name: Pace Analytical - Minnesota SDG No. : 10390069 Contract: Hudson River Remedial Action M

Preparation Method: SM 2540D Instrument ID: 10WET4

Concentration Units: mg/L

Analyte	PQL	MDL	MDL Date
Total Suspended Solids	2.0	1.0	04/01/2015

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Minnesota SDG No. : 10390069 Contract: Hudson River Remedial Action M

Preparation Method: SM 2540D Batch: WET 53727

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2599347	2599347	05/30/2017	1000	500
2599348	2599348	05/30/2017	1000	500
2599349	2599349	05/30/2017	1000	500
10390069001	OWS-BAFA-	05/30/2017	1000	500
10390069002	OWS-ROIS-	05/30/2017	1000	500
10390069003	OWS-SCHU-	05/30/2017	1000	500
10390069004	OWS-THIS-	05/30/2017	1000	500
10390069005	OWS-WAFO-	05/30/2017	1000	500

NA to sample. analysis normal volume used by lab.

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Minnesota SDG No. : 10390069 Contract: Hudson River Remedial Action M

Instrument ID: 10WET4 Analysis Method: SM 2540D

Start Date: 05/30/2017 16:45 End Date: 05/30/2017 16:45

Sample Name	Lab Sample ID	D/F	Date	Time	tss w
2599347BLANK	2599347	1	05/30/2017	16:45	X
2599348LCS	2599348	1	05/30/2017	16:45	X
2599349DUP	2599349	1	05/30/2017	16:45	X
OWS-BAFA-T170524112919	10390069001	1	05/30/2017	16:45	X
OWS-ROIS-T170524113548	10390069002	1	05/30/2017	16:45	X
OWS-SCHU-T170524112607	10390069003	1	05/30/2017	16:45	X
OWS-THIS-T170524112744	10390069004	1	05/30/2017	16:45	X
OWS-WAFO-	10390069005	1	05/30/2017	16:45	X

Prep Log Report

Batch Information: WET 53727 TSS LL

Template Version: F-MN-I-326-Rev.03 (24Jan2017)

Analysis Method	SM 2540D	Analyzed By	NAS	Instrument	10WET4	Acceptance Range:	103-105 C
Oven ID	10WET17	Thermometer ID	4310	Oven Temp Correction Factor	0	Oven Temp In1 | Corr | Date/Time | Init	105.0 | 105.0 | 05/30/2017 16:45 | NAS
Oven Temp Out1 | Corr | Date/Time | Init	105.0 | 105.0 | 06/01/2017 17:05 | MMB	Desic. In 1 ID | Date/Time | Init	8 | 06/01/2017 17:05 | MMB	Desic. Out 1 Date/Time | Init	06/06/2017 15:38 | MMB	Oven Temp In2 | Corr | Date/Time | Init	105.0 | 105.0 | 06/06/2017 15:47 | MMB
Oven Temp Out2 | Corr | Date/Time | Init	104.0 | 104.0 | 06/07/2017 09:09 | MMB	Desic. In 2 ID | Date/Time | Init	8 | 06/07/2017 09:10 | MMB	Desic. Out 2 Date/Time | Init	06/07/2017 10:26 | MMB	Reviewed By	KEO
Reviewed By Date	06/07/2017 12:10	Batch Notes					

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	ID	TSS Final (mg/L)	TSS Posted (mg/L)	Run Date/Time	Initial Volume (mL)	TSS Filters ()	Filter Wt 1 (g)	Filter Use 1	Oven Wt 1 (g)	Oven Use 1	Oven Wt 2 (g)
2540D WLL	BLANK	**2599347**	Y	cRB9M	0.0000	0.0000	05/30/2017 16:45	1000	119670 ()	0.1136	M	0.1135	N	0.1136
2540D WLL	LCS	**2599348**	Y	cRB9N	98.400	196.80	05/30/2017 16:45	1000	119670 ()	0.1056	M	0.2040	N	0.2040
2540D WLL	RQS	**10390069003**	Y	cRB9P	3.6000	7.2000	05/30/2017 16:45	1000	119670 ()	0.1090	M	0.1125	N	0.1126
2540D WLL	DUP	**2599349**	Y	cRB9Q	3.7000	7.4000	05/30/2017 16:45	1000	119670 ()	0.1101	M	0.1137	N	0.1138
2540D WLL	PS	**10390069004**	Y	9N	2.4000	4.8000	05/30/2017 16:45	1000	121102 ()	0.1197	M	0.1221	N	0.1221
2540D WLL	PS	**10390069005**	Y	6N	8.3000	16.600	05/30/2017 16:45	1000	121102 ()	0.1179	M	0.1261	N	0.1262
2540D WLL	PS	**10390069001**	Y	8N	1.6000	3.2000	05/30/2017 16:45	1000	121102 ()	0.1196	M	0.1211	N	0.1212
2540D WLL	PS	**10390069002**	Y	5N	1.3000	2.6000	05/30/2017 16:45	1000	121102 ()	0.1198	M	0.1211	N	0.1211

QC Rule	Sample Type	Lab Sample ID	Oven Use 2	Oven %Diff 1&2	Oven Wt Diff 1&2	Sample Notes	TS/TDS-SPK (mL)
2540D WLL	BLANK	**2599347**	Y	200.00	0.0001		
2540D WLL	LCS	**2599348**	Y	0.0000	0.0000		120852 (50)
2540D WLL	RQS	**10390069003**	Y	2.8169	0.0001		

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Oven Use 2	Oven %Diff 1&2	Oven Wt Diff 1&2	Sample Notes	TS/TDS-SPK (mL)
2540D WLL	DUP	**2599349**	Y	2.7397	0.0001		
2540D WLL	PS	**10390069004**	Y	0.0000	0.0000		
2540D WLL	PS	**10390069005**	Y	1.2121	0.0001		
2540D WLL	PS	**10390069001**	Y	6.4516	0.0001		
2540D WLL	PS	**10390069002**	Y	0.0000	0.0000		

Standard Notes:

120852: TS/TSS/TDS Handmade Standard, 10WET4

C. SDG 10390779

ENVIRONMENTAL STANDARDS

INORGANIC ANALYSIS SUPPORT DOCUMENTATION

ESI project name: GE 2017 Hudson River RAMP

Sample Collection Dates: 5/26 & 5/31/17

Job Number: 20115678.H000

Project Manager: Meg Michell

Laboratory: Pace

Reviewed by: THW

Approved by: MAM

Completion Date: 11/2017

Applicable Sample No's (✓)

Refer to Table 1 in the Quality Assurance Review

Deliverable:			Sample No.	Lab Control No.
	CLP (Full)	( )	10390779	
	Level IV (Full)	(x)		
	Limited	( )		
	Other:			

The following table indicates criteria that were examined, the identified problems, and support documentation attachments

	Criteria Examined in Detail Check (√) if Yes or Footnote Letter for Comments Below					Problems Identified Check (√) if Yes or Footnote Letter for Comments Below					Support Documentation Attachments Check (√) if Yes or Footnote Letter for Comments Below				
	TSS					TSS					TSS				
Holding Times	x										x				
Blank Analysis Results	x										x				
Matrix Spike (Predigestion) Results															
Duplicate Analysis: ( ) Field (x) Lab	x					x					x				
Quantitation of Results	x										x				
Detection Limit/Sensitivity															
Initial Calibrations															
Continuing Calibrations															
Laboratory Control Standard (LCS)	x										x				
ICP Linear Range Analysis															
ICP Interference Checks															
ICP Serial Dilutions															
ICP Post-Digestion Spike															
GFAA Post Digestion Spikes															
GFAA Duplicate Injections															
ICP Multiple Exposures															
GFAA Standard Additions															
CRDL Standards															
Condition on Receipt	x										x				
Percent Solids															
Others:															

Comments:

BLANK ANALYSIS RESULTS FOR INORGANIC PARAMETERS

Analysis Type	Matrix (Aq, S)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (mg/L)	Qualif Limit 5X
TSS	Aq	MB		None		

2: MB = Method Blank; TB = Trip Blank; EB = Equipment Blank; FB = Field Blank; IB = Instrument Blank; SB = Storage Blank

Notes: _____

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10390779

Sample: OWS-LHAL-T170531110644 **Lab ID: 10390779001** Collected: 05/26/17 10:27 Received: 06/01/17 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**5.1**	mg/L	1.0	0.51	1		06/02/17 15:48		D6

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10390779

Sample: OWS-LHPO-T170531110915 **Lab ID: 10390779002** Collected: 05/26/17 12:15 Received: 06/01/17 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**15.3**	mg/L	1.0	0.50	1		06/02/17 15:48		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Hudson River Remedial Action M
Pace Project No.: 10390779

Sample: OWS-WAFO-T170531111136 **Lab ID: 10390779003** Collected: 05/31/17 09:42 Received: 06/01/17 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D TSS, Low Level	Analytical Method: SM 2540D								
Total Suspended Solids	**17.0**	mg/L	1.0	0.50	1		06/02/17 15:48		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Hudson River Remedial Action M
Pace Project No.: 10390779

QC Batch: 477640 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D TSS, Low Level
Associated Lab Samples: 10390779001, 10390779002, 10390779003

METHOD BLANK: 2602689 Matrix: Water
Associated Lab Samples: 10390779001, 10390779002, 10390779003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<1.0	1.0	0.50	06/02/17 15:48	

LABORATORY CONTROL SAMPLE: 2602690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	89.5	90	80-120	

SAMPLE DUPLICATE: 2602691

Parameter	Units	10390779001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.1	6.3	21	10	D6

J all

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM IX INORGANIC-1
METHOD DETECTION LIMITS

Lab Name: Pace Analytical - Minnesota SDG No. : 10390779 Contract: Hudson River Remedial Action M

Preparation Method: SM 2540D Instrument ID: 10WET4

Concentration Units: mg/L

Analyte	PQL	MDL	MDL Date
Total Suspended Solids	2.0	1.0	04/01/2015

based on normal volume of 500 mL

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Minnesota SDG No. : 10390779 Contract: Hudson River Remedial Action M

Preparation Method: SM 2540D Batch: WET 53818

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2602689	2602689	06/02/2017	1000	500
2602690	2602690	06/02/2017	1000	500
2602691	2602691	06/02/2017	990	500
10390779001	OWS-LHAL-	06/02/2017	990	500
10390779002	OWS-LHPO-	06/02/2017	1000	500
10390779003	OWS-WAFO-	06/02/2017	1000	500

NA to sample analysis normal volume used by lab.

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Minnesota SDG No. : 10390779 Contract: Hudson River Remedial Action M

Instrument ID: 10WET4 Analysis Method: SM 2540D

Start Date: 06/02/2017 15:48 End Date: 06/02/2017 15:48

Sample Name	Lab Sample ID	D/F	Date	Time	tss w
2602689BLANK	2602689	1	06/02/2017	15:48	X
2602690LCS	2602690	1	06/02/2017	15:48	X
2602691DUP	2602691	1	06/02/2017	15:48	X
OWS-LHAL-T170531110644	10390779001	1	06/02/2017	15:48	X
OWS-LHPO-T170531110915	10390779002	1	06/02/2017	15:48	X
OWS-WAFO-	10390779003	1	06/02/2017	15:48	X

Prep Log Report

Batch Information: WET 53818 TSS LL

Template Version: F-MN-I-326-Rev.03 (24Jan2017)

Analysis Method	SM 2540D	Analyzed By	NAS	Instrument	10WET4	Acceptance Range:	103-105 C
Oven ID	10WET17	Thermometer ID	4310	Oven Temp Correction Factor	0	Oven Temp In1 | Corr | Date/Time | Init	106.0 | 106.0 | 06/02/2017 15:48 | NAS
Oven Temp Out1 | Corr | Date/Time | Init	105.0 | 105.0 | 06/07/2017 15:11 | MMB	Desic. In 1 ID | Date/Time | Init	6 | 06/07/2017 15:12 | MMB	Desic. Out 1 Date/Time | Init	06/12/2017 10:58 | MMB	Oven Temp In2 | Corr | Date/Time | Init	105.0 | 105.0 | 06/12/2017 11:07 | MMB
Oven Temp Out2 | Corr | Date/Time | Init	104.0 | 104.0 | 06/12/2017 14:46 | MMB	Desic. In 2 ID | Date/Time | Init	6 | 06/12/2017 14:46 | MMB	Desic. Out 2 Date/Time | Init	06/12/2017 15:26 | MMB	Reviewed By	KEO
Reviewed By Date	06/13/2017 16:17	Batch Notes					

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	ID	TSS Final (mg/L)	TSS Posted (mg/L)	Run Date/Time	Initial Volume (mL)	TSS Filters ()	Filter Wt 1 (g)	Filter Use 1	Oven Wt 1 (g)	Oven Use 1	Oven Wt 2 (g)
2540D WLL	BLANK	**2602689**	Y	G26JV	0.10000	0.20000	06/02/2017 15:48	1000	121196 ()	0.1113	M	0.1114	N	0.1114
2540D WLL	LCS	**2602690**	Y	G26JW	89.500	179.00	06/02/2017 15:48	1000	121196 ()	0.1205	M	0.2100	N	0.2100
2540D WLL	RQS	**10390779001**	Y	G26JX	5.0505	10.000	06/02/2017 15:48	990	121196 ()	0.1081	M	0.1131	N	0.1131
2540D WLL	DUP	**2602691**	Y	G26JY	6.2626	12.400	06/02/2017 15:48	990	121196 ()	0.1193	M	0.1256	N	0.1255
2540D WLL	PS	**10390779002**	Y	G26JZ	15.300	30.600	06/02/2017 15:48	1000	121196 ()	0.1185	M	0.1337	N	0.1338
2540D WLL	PS	**10390779003**	Y	G26K0	17.000	34.000	06/02/2017 15:48	1000	121196 ()	0.1188	M	0.1358	N	0.1358

QC Rule	Sample Type	Lab Sample ID	Oven Use 2	Oven %Diff 1&2	Oven Wt Diff 1&2	Sample Notes	TS/TDS-SPK (mL)
2540D WLL	BLANK	**2602689**	Y	0.0000	0.0000		
2540D WLL	LCS	**2602690**	Y	0.0000	0.0000		121487 (1000)
2540D WLL	RQS	**10390779001**	Y	0.0000	0.0000	1*	
2540D WLL	DUP	**2602691**	Y	1.6000	0.0001	1*	
2540D WLL	PS	**10390779002**	Y	0.65574	0.0001		

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	Oven Use 2	Oven %Diff 1&2	Oven Wt Diff 1&2	Sample Notes	TS/TDS-SPK (mL)
2540D WLL	PS	**10390779003**	Y	0.0000	0.0000		

Sample Notes:

1*: Insufficient sample volume

Standard Notes:

121487: TS/TSS/TDS Handmade Standard, 10WET4

SECTION 6

CASE NARRATIVES AND CHAIN-OF-CUSTODY RECORDS

Vista Work Order No. 1700918
Case Narrative

Sample Condition on Receipt:

Ten water samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. This Work Order was amended to modify the reporting format, include a table with percent solids results, include copies of the solvent blanks, and include lock mass chromatograms missing from the original report.

Analytical Notes:

EPA Method 1668C

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Method 1668C identifies in Section 16.5 and 18.5 that loss of one or more chlorines from a highly chlorinated congener may inflate or create a false concentration for a less chlorinated congener. Section 10.3.1.1 also indicates that the laboratory must monitor the exact m/z's for congeners at higher levels of chlorination to determine if fragments will compromise measurement of congeners at lower levels of chlorination. Mass interference from congeners at higher levels of chlorination to congeners at lower levels of chlorination is particularly critical to proper identification and quantitation of the World Health Organization (WHO) List PCB congeners that have Toxicity Equivalence Factors (TEFs) relative to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (2,3,7,8- TCDD). The following table lists the higher level chlorination congeners that can potentially qualitatively and quantitatively interfere with the measurement of the WHO list PCB congeners. The data user should be aware of these potential interferences when evaluating results for the WHO list congeners. If accurate Toxic Equivalency Quotients (TEQs) are of interest, optional analysis incorporating carbon column fractionation and/or a second column can be used to refine WHO list congener results.

WHO List
Fragmentation Interferences
ZB-1 GC Column

Congener	Approx. RT	Homologue	1	ΔRT	2	ΔRT
PCB-77	39:40:00	Tetra	PCB-120	-1	PCB-148	2
PCB-81	39:04:00	Tetra	PCB-87/117/125	3	NA	
PCB-105	43:05:00	Penta	PCB-132/161	0	NA	
PCB-114	42:13:00	Penta	PCB-134/143	-3	NA	
PCB-106/118	41:36:00	Penta	PCB-139/149	-4	NA	
PCB-123	41:24:00	Penta	NA		NA	
PCB-126	45:19:00	Penta	PCB-129	0	NA	
PCB-156	48:05:00	Hexa	PCB-171	1	NA	
PCB-157	48:20:00	Hexa	NA		PCB-202	-2
PCB-167	46:47:00	Hexa	NA		NA	
PCB-169	50:33:00	Hexa	NA		NA	
PCB-189	49:22:00	Hepta	NA		NA	

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The detection limit for PCB-11 is raised due to a peak present in one ion channel. The OPR recoveries were within the method acceptance criteria.

As requested, "U" flags were used for non-detects and "UM" flags were used for EMPCs.

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1700918-03	OWS-LHAL-T170531110644	EPA Method 1668C	13C-PCB-209	H	157
1700918-04	OWS-LHPO-T170531110915	EPA Method 1668C	13C-PCB-209	H	157
1700918-05	OWS-ROIS-T170524113548	EPA Method 1668C	13C-PCB-209	H	159
1700918-06	OWS-SCHU-T170524112607	EPA Method 1668C	13C-PCB-209	H	160
1700918-07	OWS-THIS-T170524112744	EPA Method 1668C	13C-PCB-209	H	158

H = Recovery was outside laboratory acceptance criteria.

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1700918-01	OWS-BAFA-T170524112919	24-May-17 09:30	21-Jul-17 09:12	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
1700918-02	OWS-FDBL-T170524113005	24-May-17 09:20	21-Jul-17 09:12	Amber Glass NM Bottle, 1L
1700918-03	OWS-LHAL-T170531110644	26-May-17 10:27	21-Jul-17 09:12	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
1700918-04	OWS-LHPO-T170531110915	26-May-17 12:15	21-Jul-17 09:12	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
1700918-05	OWS-ROIS-T170524113548	24-May-17 09:58	21-Jul-17 09:12	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
1700918-06	OWS-SCHU-T170524112607	23-May-17 12:01	21-Jul-17 09:12	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
1700918-07	OWS-THIS-T170524112744	23-May-17 12:53	21-Jul-17 09:12	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
1700918-08	OWS-WAFO-T170515132332	15-May-17 11:46	21-Jul-17 09:12	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
1700918-09	OWS-WAFO-T170524112421	23-May-17 10:35	21-Jul-17 09:12	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
1700918-10	OWS-WAFO-T170531111136	31-May-17 09:42	21-Jul-17 09:12	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L

DATA QUALIFIERS & ABBREVIATIONS

B	**This compound was also detected in the method blank.**
D	**Dilution**
E	**The associated compound concentration exceeded the calibration range of the instrument.**
H	**Recovery and/or RPD was outside laboratory acceptance limits.**
I	**Chemical Interference**
J	**The amount detected is below the Reporting Limit/LOQ.**
M	**Estimated Maximum Possible Concentration. (CA Region 2 projects only)**
*****	**See Cover Letter**
Conc.	**Concentration**
NA	**Not applicable**
ND	**Not Detected**
TEQ	**Toxic Equivalency**
U	**Not Detected (specific projects only)**

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

ANCHOR QEA

395 West Grand Avenue Montvale, NJ 07645 Ph: 201.930.9890

1700918 1.6°C, 0.7°C

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170718120918VISTA
Sample Custodian: SW
Lab: VISTA

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC Sample Number	Field Sample ID	QA/QC	Matrix **	Date Collected	Time Collected	Media*	# Containers	TEST REQUESTED	METHOD	MS	MSD	LD	Turn Around Time (hrs)	Preservative
001	OWS-BAFA-T170524112919	ENV	W	05/24/2017	09:30	W	2							
								CS PCBs 1668	E1668C	N	N	N	504	4degC
002	OWS-FDBL-T170524113005	FDBL	W	05/24/2017	09:20	W	1							
								CS PCBs 1668	E1668C	N	N	N	504	4degC
003	OWS-LHAL-T170531110644	ENV	W	05/26/2017	10:27	W	2							
								CS PCBs 1668	E1668C	N	N	N	504	4degC
004	OWS-LHPO-T170531110915	ENV	W	05/26/2017	12:15	W	2							
								CS PCBs 1668	E1668C	N	N	N	504	4degC
005	OWS-ROIS-T170524113548	ENV	W	05/24/2017	09:58	W	2							
								CS PCBs 1668	E1668C	N	N	N	504	4degC
006	OWS-SCHU-T170524112607	ENV	W	05/23/2017	12:01	W	2							
								CS PCBs 1668	E1668C	N	N	N	504	4degC
007	OWS-THIS-T170524112744	ENV	W	05/23/2017	12:53	W	2							
								CS PCBs 1668	E1668C	N	N	N	504	4degC
008	OWS-WAFO-T170515132332	ENV	W	05/15/2017	11:46	W	2							
								CS PCBs 1668	E1668C	N	N	N	504	4degC
009	OWS-WAFO-T170524112421	ENV	W	05/23/2017	10:35	W	2							
								CS PCBs 1668	E1668C	N	N	N	504	4degC
010	OWS-WAFO-T170531111136	ENV	W	05/31/2017	09:42	W	2							
								CS PCBs 1668	E1668C	N	N	N	504	4degC

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature [illegible]	Signature VIA FED EX →	Signature FedEx	Signature [illegible]	Signature	Signature
Print Name A. Bitter	Print Name	Print Name ↓	Print Name B. Benedict	Print Name	Print Name
Company PACE	Company	Company	Company VAL	Company	Company
Date/Time 7/20/17 16:50	Date/Time	Date/Time 7/21/17 0912	Date/Time 7/21/17 0916	Date/Time	Date/Time

Date Printed: 7/20/2017 * S= SEDIMENT, W= WATER, PW= PORE WATER ** W = Total/Whole, D = Dissolved, R = Residue, S = Sediment *Page 1 of 1*

Vista Analytical Laboratory

Sample Log-in Checklist

Vista Work Order #: 1700918 TAT Std

Samples Arrival:	Date/Time 07/21/17 0912	Initials: BJB	Location: WR-2 Shelf/Rack: NA
Logged In:	Date/Time 07/21/17 0934	Initials: BJB SR	Location: WR-2 Shelf/Rack: B1

Delivered By:	FedEx	UPS	On Trac	GSO	DHL	Hand Delivered	Other
Preservation:	Ice	Blue Ice	Dry Ice	None			

Temp °C: 2.0 (uncorrected)	Time: 0915	Thermometer ID: IR-2
Temp °C: 1.6 (corrected)	Probe used: Yes☐ No☑	

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill 1 of 2 Trk # 7359 2388 4770	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	✓

If Chlorinated or Drinking Water Samples, Acceptable Preservation?						✓
Preservation Documented:	$Na_2S_2O_3$	Trizma	None	Yes	No	NA
Shipping Container	Vista	Client	Retain	Return	Dispose	

Comments: Container Sample ID:

OWS-WAFO-T170515132332 A,B bottles Cap: WF
↓ -T170531111136 A,B bottles Cap: W
OWS-LHAL-T170531110644 A,B bottles
OWS-LHPO-T170531110915 A,B bottles
OWS-THIS-T170524112744 A bottle Cap: T
OWS-SCHU-T170524112607 A bottle Cap: S

Vista Analytical Laboratory

Sample Log-in Checklist

Vista Work Order #: 1700918 TAT Std

Samples Arrival:	Date/Time 07/21/17 0912	Initials: BJB	Location: WR-2 Shelf/Rack: NA
Logged In:	Date/Time 07/21/17 0934	Initials: BJB SR	Location: WR-2 Shelf/Rack: B1

Delivered By:	FedEx	UPS	On Trac	GSO	DHL	Hand Delivered	Other
Preservation:	Ice	Blue Ice	Dry Ice	None			

Temp °C: 1.1 (uncorrected)	Time: 0918	Thermometer ID: IR-2
Temp °C: 0.7 (corrected)	Probe used: Yes☐ No☑	

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill 2 of 2 Trk # 7359 2388 4780	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	✓

If Chlorinated or Drinking Water Samples, Acceptable Preservation?					~~BJB~~	✓ 7/21/17
Preservation Documented:	$Na_2S_2O_3$	Trizma	None	Yes	No	NA
Shipping Container	Vista	Client	Retain	Return	Dispose	

Comments: Sample Container ID:

OWS - FDBL - T170524113005 A bottle Cap: EB
OWS - BAFA - T170524112919 A, B bottles Cap: B
OWS - ROIS - T170524113548 A, B bottles Cap: R
OWS - WAFO - T170524112421 A, B bottles Cap: W
OWS - SCHU - T170524112607 B bottle
OWS - THIS - T170524112744 B bottle Cap: T

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Hudson River Remedial Action M
Pace Project No.: 10388892

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10388892001	**HFL-SVDB-T170515132020**	Water	05/12/17 09:24	05/16/17 09:45
10388892002	**HFL-SVDB-T170515132126**	Water	05/15/17 10:48	05/16/17 09:45
10388892003	**HFL-WAFO-T170515132245**	Water	05/12/17 10:22	05/16/17 09:45
10388892004	**OWS-WAFO-T170515132332**	Water	05/15/17 11:46	05/16/17 09:45

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: Hudson River Remedial Action M
Pace Project No.: 10388892

Method: **SM 2540D**
Description: 2540D TSS, Low Level
Client: GE_Anchor QEA, LLC
Date: May 25, 2017

General Information:
4 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

10388892

ANCHOR QEA

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170515132619PACE
Sample Custodian: CCY
Lab: PACE

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC Sample Number	Field Sample ID	QA/QC	Matrix **	Date Collected	Time Collected	Media*	# Containers	TEST REQUESTED	METHOD	MS	MSD	LD	Turn Around Time (hrs)	Preservative
001	HFL-SVDB-T170515132020	ENV	W	05/12/2017	09:24	W	3							
								Total Suspended Solids	SM 2540D	N	N	N	504	4degC
								CS PCBs	NE294_02	N	N	N	504	4degC
002	HFL-SVDB-T170515132126	ENV	W	05/15/2017	10:48	W	4							
								Total Suspended Solids	SM 2540D	N	N	Y	504	4degC
								CS PCBs	NE294_02	N	N	N	504	4degC
003	HFL-WAFO-T170515132245	ENV	W	05/12/2017	10:22	W	3							
								Total Suspended Solids	SM 2540D	N	N	N	504	4degC
								CS PCBs	NE294_02	N	N	N	504	4degC
004	OWS-WAFO-T170515132332	ENV	W	05/15/2017	11:46	W	3							
								Total Suspended Solids	SM 2540D	N	N	N	504	4degC
								CS PCBs	NE294_02	N	N	N	504	4degC

001
002
003
004

*TSS only sent to PACE-MN 5/15/17

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature via FED EX →	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name Rory
Company	Company	Company	Company PACE Temp: 0.8°C	Company PACE	Company PACO
Date/Time 5/15/17 1330	Date/Time 5-15-17 1435	Date/Time 5-15-17 1517	Date/Time 5/15/17 15:17	Date/Time 5/15/17 16:00	Date/Time 5/16/17 9:45

Date Printed: 5/15/2017

* S= SEDIMENT, W= WATER, PW= PORE WATER

** W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 19Dec2016 Page 1 of 2
	Document No.: F-MN-L-213-rev.20	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Anchor QEA

Project #: WO# : 10388892

10388892

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] SpeeDee [ ] Other:

Tracking Number: 7359 2388 2230

Custody Seal on Cooler/Box Present? [X] Yes [ ] No Seals Intact? [X] Yes [ ] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [ ] None [X] Other: PB

Temp Blank? [X] Yes [ ] No

Thermometer Used: [X] 151401163 [ ] 151401164

Type of Ice: [X] Wet [ ] Blue [ ] None [ ] Samples on ice, cooling process has begun

Cooler Temp Read (°C): 0.6 Cooler Temp Corrected (°C): 0.6

Biological Tissue Frozen? [ ] Yes [ ] No [X] N/A

Temp should be above freezing to 6°C Correction Factor: true

Date and Initials of Person Examining Contents: RG 5/16/17

USDA Regulated Soil ([X] N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? [ ] Yes [ ] No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [ ] Yes [ ] No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	[X] Yes	[ ] No		1.
Chain of Custody Filled Out?	[X] Yes	[ ] No		2.
Chain of Custody Relinquished?	[X] Yes	[ ] No		3.
Sampler Name and/or Signature on COC?	[ ] Yes	[ ] No	[X] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No		5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No		6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No		7.
Sufficient Volume?	[X] Yes	[ ] No		8.
Correct Containers Used?	[X] Yes	[ ] No		9.
-Pace Containers Used?	[X] Yes	[ ] No		
Containers Intact?	[X] Yes	[ ] No		10.
Filtered Volume Received for Dissolved Tests?	[ ] Yes	[ ] No	[X] N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	[X] Yes	[ ] No		12.
All containers needing acid/base preservation have been checked?	[ ] Yes	[ ] No	[X] N/A	13. [ ] HNO_3 [ ] H_2SO_4 [ ] NaOH Positive for Res. Chlorine? Y N Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	[ ] Yes	[ ] No	[X] N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	[ ] Yes	[ ] No	[X] N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	[ ] Yes	[ ] No	[X] N/A	14.
Trip Blank Present?	[ ] Yes	[ ] No	[X] N/A	15.
Trip Blank Custody Seals Present?	[ ] Yes	[ ] No	[X] N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 5/17/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Hudson River Remedial Action M
Pace Project No.: 10390069

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10390069001	OWS-BAFA-T170524112919	Water	05/24/17 09:30	05/25/17 09:50
10390069002	OWS-ROIS-T170524113548	Water	05/24/17 09:58	05/25/17 09:50
10390069003	OWS-SCHU-T170524112607	Water	05/23/17 12:01	05/25/17 09:50
10390069004	OWS-THIS-T170524112744	Water	05/23/17 12:53	05/25/17 09:50
10390069005	OWS-WAFO-T170524112421	Water	05/23/17 10:35	05/25/17 09:50

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: Hudson River Remedial Action M
Pace Project No.: 10390069

Method: **SM 2540D**
Description: 2540D TSS, Low Level
Client: GE_Anchor QEA, LLC
Date: June 07, 2017

General Information:
5 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANCHOR QEA

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC170524113802PACE
Sample Custodian: KMB
Lab: PACE

10390069

COC Sample Number	Field Sample ID	QA/QC	Matrix **	Date Collected	Time Collected	Media*	# Containers	TEST REQUESTED	METHOD	MS	MSD	LD	Turn Around Time (hrs)	Preservative
001	OWS-BAFA-T170524112919	ENV	W	05/24/2017	09:30	W	~~4~~ 3							
								Total Suspended Solids	SM 2540D	N	N	N	480	4degC
								CS PCBs	NE294_02	N	N	N	480	4degC
002	OWS-FDBL-T170524113005	FDBL	W	05/24/2017	09:20	W	21							
								CS PCBs	NE294_02	N	N	N	480	4degC
003	OWS-ROIS-T170524113548	ENV	W	05/24/2017	09:58	W	43							
								Total Suspended Solids	SM 2540D	N	N	N	480	4degC
								CS PCBs	NE294_02	N	N	N	480	4degC
004	OWS-SCHU-T170524112607	ENV	W	05/23/2017	12:01	W	4							
								Total Suspended Solids	SM 2540D	N	N	Y	480	4degC
								CS PCBs	NE294_02	N	N	N	480	4degC
005	OWS-THIS-T170524112744	ENV	W	05/23/2017	12:53	W	3							
								Total Suspended Solids	SM 2540D	N	N	N	480	4degC
								CS PCBs	NE294_02	N	N	N	480	4degC
006	OWS-WAFO-T170524112421	ENV	W	05/23/2017	10:35	W	3							
								Total Suspended Solids	SM 2540D	N	N	N	480	4degC
								CS PCBs	NE294_02	N	N	N	480	4degC

001 002 003 004 005

*TSS only sent to PACE-MN 5/24/17

Comments:

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature	Signature	Signature	Signature VIA FED EX	Signature
Print Name R. Constant	Print Name M. Sinclair	Print Name M. Sinclair	Print Name	Print Name N. Bottig	Print Name Charlie Cosney
Company AQ	Company PACE	Company PACE	Company PACE Temp: 4.8°C	Company PACE	Company PACE
Date/Time 5/24/17 11:45	Date/Time 5/24/17 14:00	Date/Time 5/24/17 [illegible]	Date/Time 5/24/17 14:36	Date/Time 5/24/17 16:00	Date/Time 5/25/17 9:50

TC 0.3°C

Date Printed: 5/24/2017 * S= SEDIMENT, W= WATER, PW= PORE WATER ** W = Total/Whole, D = Dissolved, R = Residue, S = Sediment **Page 1 of 1**

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 19Dec2016 Page 1 of 2
	Document No.: **F-MN-L-213-rev.20**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Anchor QEA

Project #: WO#: 10390069

10390069

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 7354 2388 2516

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other: PB **Temp Blank?** ☒ Yes ☐ No

Thermometer Used: ☒ 151401163 ☐ 151401164 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 0.3 **Cooler Temp Corrected (°C):** 0.3 **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Correction Factor:** true **Date and Initials of Person Examining Contents:** CS 5/25/17

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☒ Yes	☐ No		1.
Chain of Custody Filled Out?	☒ Yes	☐ No		2.
Chain of Custody Relinquished?	☒ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		6.
Rush Turn Around Time Requested?	☐ Yes	☒ No		7.
Sufficient Volume?	☒ Yes	☐ No		8.
Correct Containers Used?	☒ Yes	☐ No		9.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No		12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	☐ Yes	☐ No	☒ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Carol Doug **Date:** 5/25/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Hudson River Remedial Action M
Pace Project No.: 10390779

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10390779001	**OWS-LHAL-T170531110644**	Water	05/26/17 10:27	06/01/17 09:45
10390779002	**OWS-LHPO-T170531110915**	Water	05/26/17 12:15	06/01/17 09:45
10390779003	**OWS-WAFO-T170531111136**	Water	05/31/17 09:42	06/01/17 09:45

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: Hudson River Remedial Action M
Pace Project No.: 10390779

Method: **SM 2540D**
Description: 2540D TSS, Low Level
Client: GE_Anchor QEA, LLC
Date: June 14, 2017

General Information:
3 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 477640

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 2602691)
  - Total Suspended Solids

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

10390779

ANCHOR QEA

305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9350

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: COC170531111504PACE
Sample Custodian: KMB
Lab: PACE

Client: General Electric Company

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC Sample Number	Field Sample ID	QA/QC	Matrix **	Date Collected	Time Collected	Media*	# Containers	TEST REQUESTED	METHOD	MS	MSD	LD	Turn Around Time (hrs)	Preservative	
001	OWS-LHAL-T170531110644	ENV	W	05/26/2017	10:27	W	4								
								Total Suspended Solids	SM 2540D	N	N	Y	480	4degC	001
								CS PCBs	NE294_02	N	N	N	480	4degC	
002	OWS-LHPO-T170531110915	ENV	W	05/26/2017	12:15	W	3								
								Total Suspended Solids	SM 2540D	N	N	N	480	4degC	002
								CS PCBs	NE294_02	N	N	N	480	4degC	
003	OWS-WAFO-T170531111136	ENV	W	05/31/2017	09:42	W	3								
								Total Suspended Solids	SM 2540D	N	N	N	480	4degC	003
								CS PCBs	NE294_02	N	N	N	480	4degC	

Comments: TSS only sent to PACE-MN 5/31/17

Relinquished by:	Received by:	Relinquished by:	Received by:	Relinquished by:	Received by:
Signature	Signature MdM	Signature MdM	Signature	Signature (PACE) VIA FEDEX	Signature
Print Name R. Gaudette	Print Name M Rocker	Print Name M Rocker	Print Name A. DITTRO	Print Name A. DITTRO	Print Name Rory
Company AQ	Company PACE	Company PACE	Company PACE Temp: 3.2°C	Company PACE	Company Pace
Date/Time 5/31/17 11:20	Date/Time 5/31/17 1355	Date/Time 5/31/17 1430	Date/Time 5/31/17	Date/Time 5/31/17 16:00	Date/Time 6/1/17 9:45

T=0.9°C

Date Printed: 5/31/2017

* S= SEDIMENT, W= WATER, PW= PORE WATER

** W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form	Document Revised: 19Dec2016 Page 1 of 2
	Document No.: F-MN-L-213-rev.20	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Anchor Qea

Project #: WO# : 10390779

10390779

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 7359 2388 2711

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other: PB

Temp Blank? ☒ Yes ☐ No

Thermometer Used: ☒ 151401163 ☐ 151401164

Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 0.8 Cooler Temp Corrected (°C): 0.9

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C Correction Factor: +0.1 Date and Initials of Person Examining Contents: RG 6/1/17

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☒ Yes	☐ No		1.
Chain of Custody Filled Out?	☒ Yes	☐ No		2.
Chain of Custody Relinquished?	☒ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		6.
Rush Turn Around Time Requested?	☐ Yes	☒ No		7.
Sufficient Volume?	☒ Yes	☐ No		8.
Correct Containers Used?	☒ Yes	☐ No		9.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No		12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	☐ Yes	☐ No	☒ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Carl Berg Date: 6/2/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

SECTION 7

PROJECT CORRESPONDENCE

ENVIRONMENTAL STANDARDS

Setting the Standards for Innovative Environmental Solutions

MEMORANDUM

Date: September 12, 2017; updated October 19, 2017

To: Bob Gibson
General Electric Co.

From: David R. Blye, CEAC

Copy: Meg Michell – Environmental Standards
Mark Meyers – Anchor QEA

Subject: Summary of Data Quality Review of Initial Method 1668C Analysis Data
Hudson River Off Season May 2017 Samples

September 12, 2017

Environmental Standards has completed the data quality review and validation of the initial set of May 2017 Hudson River off season water samples. The nine samples and field blank were analyzed by Vista Analytical as described in Corrective Action Memo No. 14 and the PCB results reported in Vista Work Order No. 1700918. Additionally, Anchor QEA successfully loaded the associated electronic data deliverable (EDD) to the project environmental database on September 11, 2017.

Overall, the data quality was excellent. As this is the first data set analyzed using Method 1668C, there are several reporting issues we discussed with Vista personnel yesterday to determine if changes in the data or reporting approach can be made. The following is a summary of the main items we discussed and Vista personnel are in the process of determining if the requests can be accommodated:

October 19, 2017

Environmental Standards worked with Vista Analytical personnel to address the issues summarized below. Text in *Italics* following the item explains how the data was revised or the issue resolved. A revised data package and EDD were provided to Environmental Standards and Anchor QEA on October 13, 2017.

1. If interference in a congener result causes an estimated detection limit (EDL) to be greater than the reporting limit (RL), can Vista also adjust the RL to be equal to the EDL.

Analyte	Conc. (pg/L)	RL	DL
PCB-11	ND	5.00	10.4

   a. *10/19/2017 – Vista programmed LIMS to raise the RL to the EDL level when the EDL was higher than the RL.*
2. Vista typically does not report EDLs for congeners with positive results. We discussed that the noise level appeared to be pretty consistent for each homolog that results in consistent EDLs for not-detected congeners and asked if the EDL could be populated for congeners with positive results based on the uniform noise level. This is more important for the EDD where a value is required in the EDL field and the current practice is to use fictitious small number.
   a. *10/19/2017 – Vista was not able to accommodate a programming change in LIMs to report EDLs for congeners with positive results. A fictitious small number (0.00001 ng/L) will continue to be used in the EDD.*
3. Can an RL be assigned to the %solids determination record that is measured to determine if the solids are ≥1% rather than reporting "0" or very low numbers like 0.07%
   a. *10/19/2017 – Vista added a Percent Solids report showing an RL of 0.1%. Additionally, Vista will include a method blank for percent solids for future analysis batches.*
4. The lock mass ion trace is not presented on each page that presents the retention time region of a group of congeners. This makes it more difficult to easily review the presence or absence of interferences at a given retention time. Additionally, the lock mass trace was not shown for the retention time region from ~ 26.30 to 27.30 minutes, where two PCB congener peaks elute.
   a. *10/19/2017 – The gap in the lock mass trace has been corrected in the revised data package and has been added to the full retention time window chromatograms for each group of congeners.*
5. Solvent blanks run in the analytical sequence were not provided in the raw data and were requested for future data packages.
   a. *10/19/2017 – Vista included the solvent blank data in the revised data package and will include solvent blank data in future data packages when they are analyzed.*
6. Several very trace concentration levels of PCB-81 were reported in samples where coelution from an ion fragment of a higher chlorinated PCB was observed at the same retention time (RT). We discussed if a qualifier code could be used to identify when this mass interference was observed in WHO-list toxic congeners. Additionally, we requested a few of the reported positive results for PCB-81 be reevaluated and changed to not-detected as the trace concentration results appeared to be solely due to mass interference from a higher chlorinated PCB.
   a. *10/19/2017 – Environmental Standards and Vista discussed at length the issue of interference to a lower chlorinated congener from an ion fragment from a higher chlorinated congener. The ability to flag such interference in an automated manner with LIMS was not able to be accommodated due to the complexity of the issue and in some cases complete RT coelution of the target congener and interfering ion fragment from a higher chlorinated congener. To address this issue specifically for WHO-list PCB congeners, Environmental Standards requested that Vista identify each potential interfering fragment on the DB-1 (same as the ZB-1 column) used for analysis. Vista reviewed the RTs of the WHO-list PCB congeners compared to the RTs of interfering higher chlorinated congeners. To identify this issue to the data user and to address the requirement in Method 1668C to monitor for mass interference, the following information will be included in the data package Case Narrative:*

"Method 1668C identifies in Section 16.5 and 18.5 that loss of one or more chlorines from a highly chlorinated congener may inflate or create a false concentration for a less chlorinated congener. Section 10.3.1.1 also indicates that the laboratory must monitor the exact m/z's for congeners at higher levels of chlorination to determine if fragments will compromise measurement of congeners at lower levels of chlorination. Mass interference from congeners at higher levels of chlorination to congeners at lower levels of chlorination is particularly critical to proper identification and quantitation of the World Health Organization (WHO) List PCB congeners that have Toxicity Equivalence Factors (TEFs) relative to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (2,3,7,8- TCDD). The following table lists the higher level chlorination congeners that can potentially qualitatively and quantitatively interfere with the measurement of the WHO list PCB congeners. The data user should be aware of these potential interferences when evaluating results for the WHO list congeners. If accurate Toxic Equivalency Quotients (TEQs) are of interest, optional analysis incorporating carbon column fractionation and/or a second column can be used to refine WHO list congener results."

WHO List
Fragmentation Interferences
ZB-1 GC Column

Congener	Approx. RT	Homologue	+1	ΔRT	+2	ΔRT
PCB-77	39:40	Tetra	PCB-120	-1	PCB-148	+2
PCB-81	39:04	Tetra	PCB-87/117/125	+3	NA	
PCB-105	43:05	Penta	PCB-132/161	0	NA	
PCB-114	42:13	Penta	PCB-134/143	-3	NA	
PCB-106/118	41:36	Penta	PCB-139/149	-4	NA	
PCB-123	41:24	Penta	NA		NA	
PCB-126	45:19	Penta	PCB-129	0	NA	
PCB-156	48:05	Hexa	PCB-171	+1	NA	
PCB-157	48:20	Hexa	NA		PCB-202	-2
PCB-167	46:47	Hexa	NA		NA	
PCB-169	50:33	Hexa	NA		NA	
PCB-189	49:22	Hepta	NA		NA	

b. *10/19/2017 – As requested by Environmental Standards, Vista reevaluated the reported trace concentration positive results for PCB-81 in all samples and changed the results to not detect due to interference from PCB-87/117/125.*

7. Vista was not consistent in the criteria presented on the continuing calibration verification (CCV) summaries included in the data package (EPA Method 1668A vs 1668C). We requested that they consistently use EPA Method 1668C criteria.

a. *10/19/2017 – Vista clarified to Environmental Standards that CCV summaries include both Method 1668A and 1668C criteria when the analytical sequence includes sample extracts run under each method version. No changes were required.*

Vista personnel are expected to address our items in the next few days, which may result in resubmitting the results, EDD and data packages. Once we conclude what can be accommodated, we should be able to have Vista proceed with the held sample backlog starting with the earliest sample collection date.

Let us know if you have any questions.

10/19/2017 – Environmental Standards is satisfied with the resolutions to the issues identified above and recommends that General Electric seek approval from EPA to allow Vista to commence analyzing the held sample backlog.

Meg Michell

From:	Carol Davy <cdavy@pacelabs.com>
Sent:	Monday, February 5, 2018 4:00 PM
To:	Meg Michell
Cc:	David Blye
Subject:	Re: TSS data package questions
Attachments:	VCard.vcf; 10412310_package_L4.zip

Hi Meg,

Here are answers to the questions I did not answer earlier:

- According to the Form XII Preparation Log summary, samples start with an initial volume of ~1000 mL (should be using entire bottle contents) and then have a final volume of 500 mL. I am not sure where this final volume comes from.
Per client instructions, the entire supplied sample volume is marked on the sample container and then filtered. Using the mark on the sample container the volume is determined and entered as the initial filtered volume. The final volume of 500 mL is set in our acode for Low Level TSS and is not updated for individual samples. Only the Initial Volume is updated based on volume filtered.

- According to the Form IX Method Detection Limits summary, the PQL is 2.0 mg/L and the MDL is 1.0 mg/L. However, all data is reported with PQLs and MDLs that are half this amount (our required PQL was 1.0 mg/L).
The standard PQL (2.0 mg/L) and MDL (1.0 mg/L) for this acode are based on an initial filtered volume of 500 mL and are adjusted up or down based on the actual initial volume filtered. The PQL and MDL that is showing on Form IX appears to be the PQL and MDL for samples filtered at 500 mL which is being pulled right from the acode information in LIMS. The actual PQL for individual samples would be calculated as the PQL of the acode multiplied by the ratio of Final Volume to Initial Volume. So for sample 10412310001 on page 28 of the attached L4: 2.0*(500/992) = 1.0 mg/L. These PQL and MDL values for individual samples show up on the "Analytical Results" portion of the Final Report (pages 6-7 of the attached L4).

- Separately, it was noted that the SOP calculation below (Section 14.4) results in units of ppb (mg/mL) vs the stated units (mg/L). It is not important now but eventually, it should be fixed prior to inclusion in the next QAPP.
Solids SOP S-MN-I-528 has been updated to reflect this change and was submitted to QA 2/5/18.

Let me know if you have any further questions.

Carol Davy
Senior Project Manager
Pace Analytical Services, LLC
1700 Elm St. SE Suite 200
Minneapolis, MN 55414
Direct **612.607.6436**
www.pacelabs.com
My hours are M-F 9:00-4:30 central

>>> Meg Michell <mmichell@envstd.com> 2/1/2018 12:49 PM >>>
Hi Carol-
I left a voice mail but we just had a couple of questions for the TSS data packages.

- According to the Form XII Preparation Log summary, samples start with an initial volume of ~1000 mL (should be using entire bottle contents) and then have a final volume of 500 mL. I am not sure where this final volume comes from.
- According to the Form IX Method Detection Limits summary, the PQL is 2.0 mg/L and the MDL is 1.0 mg/L. However, all data is reported with PQLs and MDLs that are half this amount (our required PQL was 1.0 mg/L).

Could you clarify these forms?

Also, it looks like the sample volume never goes over 1000 mL, which is unusual. The entire sample bottle should be being used as per the QAPP:

- The entire sample volume will be used for analysis. The water meniscus will be marked on the sample bottle prior to pouring the sample into the filtration apparatus.

Separately, it was noted that the SOP calculation below (Section 14.4) results in units of ppb (mg/mL) vs the stated units (mg/L). It is not important now but eventually, it should be fixed prior to inclusion in the next QAPP.

14.4. TS, TSS and TDS

TS, TSS and TDS (mg/L) = (A-B)*1000/V
Where:
A = Weight of residue and vessel (g)
B = Tare weight of vessel (g)
V = Volume of sample aliquot (mL)

Thanks!!

Meg A. Michell
Senior Technical Chemist
Environmental Standards, Inc.
1140 Valley Forge Road • PO Box 810 • Valley Forge, PA 19482
610.935.5577 x422 • www.envstd.com • mmichell@envstd.com

Emergency Response Quality Assurance Hotline: 855.374.7272

ENVIRONMENTAL® STANDARDS 30 YEARS 1987 - 2017