

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : X007 @ P.S 7

BSI AMERICA PROFESSIONAL SERVICES INC.

141 West 36th Street, 3rd Floor

New York, NY - 10018

Phone No: (212) 290-6323

ORDER ID : P4647

ATTENTION : Kenneth Velazquez



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4647

Project ID : X007 @ P.S 7

Client : BSI America Professional Services Inc.

Lab Sample Number

P4647-01

Client Sample Number

01A-01B-01C

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

N. N. Pandya

APPROVED

Date: 11/11/2024

By Nimisha Pandya, QA/QC Supervisor at 11:33 am, Nov 11, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

BSI America Professional Services Inc.

Project Name: X007 @ P.S 7

Project # N/A

Chemtech Project # P4647

Test Name: PCB Group1

A. Number of Samples and Date of Receipt:

1 Solid sample was received on 10/31/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: PCB Group1. This data package contains results for PCB Group1.

C. Analytical Techniques:

The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analysis of PCB Group1s was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for 01A-01B-01C [Decachlorobiphenyl(2) - 212%], AS per method one surrogate allowed to fail to meet the criteria per column. No further corrective action was taken.

The Retention Times were acceptable for all samples.

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

E. Additional Comments:

The temperature of the samples at the time of receipt was 12.3°C.

sample received as Caulk matrix, therefore less volume was taken at the time of extraction.

No MSMSD performed as sample was caulk matrix.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

2

2.1

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:33 am, Nov 11, 2024

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4647

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/11/2024

LAB CHRONICLE

OrderID:	P4647	OrderDate:	10/31/2024 11:06:48 AM
Client:	BSI America Professional Services Inc.	Project:	X007 @ P.S 7
Contact:	Kenneth Velazquez	Location:	K61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4647-01	01A-01B-01C	SOIL	PCB Group1	8082A	10/31/24	11/01/24	11/04/24	10/31/24

Hit Summary Sheet
SW-846

SDG No.: P4647

Order ID: P4647

Client: BSI America Professional Services Inc.

Project ID: X007 @ P.S 7

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 01A-01B-01C								
P4647-01	01A-01B-01C	SOIL	Aroclor-1260	400	16.5	96.4	ug/kg	
Total Concentration:				400.000				

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SAMPLE DATA

Report of Analysis

Client:	BSI America Professional Services Inc.		Date Collected:	10/31/24	
Project:	X007 @ P.S 7		Date Received:	10/31/24	
Client Sample ID:	01A-01B-01C		SDG No.:	P4647	
Lab Sample ID:	P4647-01		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	5.29	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107626.D	1	11/01/24 09:11	11/04/24 10:12	PB164591

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	19.2	U	19.2	96.4	ug/kg
11104-28-2	Aroclor-1221	36.4	U	36.4	96.4	ug/kg
11141-16-5	Aroclor-1232	19.3	U	19.3	96.4	ug/kg
53469-21-9	Aroclor-1242	19.2	U	19.2	96.4	ug/kg
12672-29-6	Aroclor-1248	44.7	U	44.7	96.4	ug/kg
11097-69-1	Aroclor-1254	15.5	U	15.5	96.4	ug/kg
37324-23-5	Aroclor-1262	25.9	U	25.9	96.4	ug/kg
11100-14-4	Aroclor-1268	19.5	U	19.5	96.4	ug/kg
11096-82-5	Aroclor-1260	400		16.5	96.4	ug/kg
Total PCBs	Total PCBs	400		16.5	96.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.7		32 - 144	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	42.5	*	32 - 175	212%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



QC SUMMARY

Surrogate Summary

SDG No.: **P4647**

Client: **BSI America Professional Services Inc.**

Analytical Method: **8082A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PO107183.D	PIBLK-PO107183.D	Tetrachloro-m-xylene	1	20	22.5	112		60	140
		Decachlorobiphenyl	1	20	23.4	117		60	140
		Tetrachloro-m-xylene	2	20	22.1	110		60	140
		Decachlorobiphenyl	2	20	22.8	114		60	140
I.BLK-PO107610.D	PIBLK-PO107610.D	Tetrachloro-m-xylene	1	20	18.4	92		60	140
		Decachlorobiphenyl	1	20	18.5	92		60	140
		Tetrachloro-m-xylene	2	20	17.9	89		60	140
		Decachlorobiphenyl	2	20	18.3	92		60	140
PB164591BL	PB164591BL	Tetrachloro-m-xylene	1	20	22.0	110		32	144
		Decachlorobiphenyl	1	20	23.0	115		32	175
		Tetrachloro-m-xylene	2	20	21.7	108		32	144
		Decachlorobiphenyl	2	20	23.1	115		32	175
PB164591BS	PB164591BS	Tetrachloro-m-xylene	1	20	22.2	111		32	144
		Decachlorobiphenyl	1	20	22.8	114		32	175
		Tetrachloro-m-xylene	2	20	20.4	102		32	144
		Decachlorobiphenyl	2	20	23.1	115		32	175
I.BLK-PO107622.D	PIBLK-PO107622.D	Tetrachloro-m-xylene	1	20	18.4	92		60	140
		Decachlorobiphenyl	1	20	18.7	93		60	140
		Tetrachloro-m-xylene	2	20	17.9	89		60	140
		Decachlorobiphenyl	2	20	18.6	93		60	140
I.BLK-PO107625.D	PIBLK-PO107625.D	Tetrachloro-m-xylene	1	20	19.1	96		60	140
		Decachlorobiphenyl	1	20	21.2	106		60	140
		Tetrachloro-m-xylene	2	20	19.8	99		60	140
		Decachlorobiphenyl	2	20	22.4	112		60	140
P4647-01	01A-01B-01C	Tetrachloro-m-xylene	1	20	20.7	103		32	144
		Decachlorobiphenyl	1	20	19.4	97		32	175
		Tetrachloro-m-xylene	2	20	17.8	89		32	144
		Decachlorobiphenyl	2	20	42.5	212	*	32	175
I.BLK-PO107633.D	PIBLK-PO107633.D	Tetrachloro-m-xylene	1	20	19.4	97		60	140
		Decachlorobiphenyl	1	20	21.3	106		60	140
		Tetrachloro-m-xylene	2	20	19.4	97		60	140
		Decachlorobiphenyl	2	20	22.3	111		60	140

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4647

Client: BSI America Professional Services Inc.

Analytical Method: 8082A Datafile : PO107612.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB164591BS	AR1016	166.6	167	ug/kg	100				71	120		
	AR1260	166.6	168	ug/kg	101				65	130		

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PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164591BL

Lab Name: CHEMTECH

Contract: BSIG01

Lab Code: CHEM Case No.: P4647

SAS No.: P4647 SDG NO.: P4647

Lab Sample ID: PB164591BL

Lab File ID: PO107611.D

Matrix: (soil/water) Solid

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 11/01/2024

Date Analyzed (1): 11/01/2024

Date Analyzed (2): 11/01/2024

Time Analyzed (1): 19:59

Time Analyzed (2): 19:59

Instrument ID (1): ECD_O

Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm)

GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB164591BS	PB164591BS	PO107612.D	11/01/2024	11/01/2024
01A-01B-01C	P4647-01	PO107626.D	11/04/2024	11/04/2024

COMMENTS: _____



CALIBRATION SUMMARY

RETENTION TIMES OF INITIAL CALIBRATION

Contract: BSIG01
Lab Code: CHEM **Case No.:** P4647 **SAS No.:** P4647 **SDG NO.:** P4647
Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024
Calibration Times: 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **RT 1000 =** PO107184.D **RT 750 =** PO107185.D
RT 500 = PO107186.D **RT 250 =** PO107187.D **RT 050 =** PO107188.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Aroclor-1016-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1016-2	(2)	5.54	5.55	5.55	5.54	5.54	5.54	5.44	5.64
Aroclor-1016-3	(3)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Aroclor-1016-4	(4)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1016-5	(5)	6.00	6.00	6.00	6.00	6.00	6.00	5.90	6.10
Aroclor-1260-1	(1)	7.12	7.13	7.13	7.12	7.13	7.13	7.03	7.23
Aroclor-1260-2	(2)	7.38	7.38	7.38	7.38	7.38	7.38	7.28	7.48
Aroclor-1260-3	(3)	7.74	7.74	7.74	7.74	7.74	7.74	7.64	7.84
Aroclor-1260-4	(4)	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
Aroclor-1260-5	(5)	8.28	8.28	8.28	8.28	8.28	8.28	8.18	8.38
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1242-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1242-2	(2)	5.55	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Aroclor-1242-3	(3)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Aroclor-1242-4	(4)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1242-5	(5)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1248-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1248-2	(2)	5.80	5.80	5.80	5.80	5.80	5.80	5.70	5.90
Aroclor-1248-3	(3)	6.00	6.00	6.00	6.00	6.00	6.00	5.90	6.10
Aroclor-1248-4	(4)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1248-5	(5)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1254-1	(1)	6.37	6.37	6.38	6.37	6.38	6.37	6.27	6.47
Aroclor-1254-2	(2)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Aroclor-1254-3	(3)	6.96	6.96	6.96	6.96	6.96	6.96	6.86	7.06
Aroclor-1254-4	(4)	7.24	7.24	7.24	7.24	7.24	7.24	7.14	7.34
Aroclor-1254-5	(5)	7.66	7.66	7.66	7.66	7.66	7.66	7.56	7.76
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1268-1	(1)	8.59	8.59	8.59	8.59	8.59	8.59	8.49	8.69
Aroclor-1268-2	(2)	8.68	8.68	8.68	8.68	8.68	8.68	8.58	8.78
Aroclor-1268-3	(3)	8.91	8.91	8.91	8.91	8.91	8.91	8.81	9.01
Aroclor-1268-4	(4)	9.31	9.31	9.31	9.31	9.31	9.31	9.21	9.41
Aroclor-1268-5	(5)	9.72	9.72	9.72	9.72	9.72	9.72	9.62	9.82

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: BSIG01
Lab Code: CHEM **Case No.:** P4647 **SAS No.:** P4647 **SDG NO.:** P4647
Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024
Calibration Times: 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **RT 1000 =** PO107184.D **RT 750 =** PO107185.D
RT 500 = PO107186.D **RT 250 =** PO107187.D **RT 050 =** PO107188.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Aroclor-1016-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1016-2	(2)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1016-3	(3)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-4	(4)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1016-5	(5)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1260-1	(1)	6.21	6.21	6.21	6.21	6.21	6.21	6.11	6.31
Aroclor-1260-2	(2)	6.39	6.39	6.39	6.39	6.40	6.39	6.29	6.49
Aroclor-1260-3	(3)	6.55	6.55	6.55	6.55	6.55	6.55	6.45	6.65
Aroclor-1260-4	(4)	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aroclor-1260-5	(5)	7.26	7.26	7.26	7.26	7.26	7.26	7.16	7.36
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.65	3.64	3.64	3.64	3.54	3.74
Aroclor-1242-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1242-2	(2)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1242-3	(3)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-4	(4)	5.00	5.01	5.00	5.01	5.00	5.00	4.90	5.10
Aroclor-1242-5	(5)	5.53	5.53	5.53	5.53	5.53	5.53	5.43	5.63
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.64	3.65	3.64	3.64	3.54	3.74
Aroclor-1248-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1248-2	(2)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1248-3	(3)	5.00	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1248-4	(4)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1248-5	(5)	5.57	5.57	5.57	5.57	5.57	5.57	5.47	5.67
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.64	3.64	3.64	3.64	3.54	3.74
Aroclor-1254-1	(1)	5.53	5.53	5.53	5.53	5.53	5.53	5.43	5.63
Aroclor-1254-2	(2)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1254-3	(3)	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Aroclor-1254-4	(4)	6.30	6.30	6.30	6.31	6.30	6.30	6.20	6.40
Aroclor-1254-5	(5)	6.72	6.72	6.72	6.72	6.72	6.72	6.62	6.82
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.65	3.64	3.64	3.64	3.65	3.64	3.54	3.74
Aroclor-1268-1	(1)	7.54	7.54	7.54	7.54	7.54	7.54	7.44	7.64
Aroclor-1268-2	(2)	7.61	7.61	7.61	7.61	7.61	7.61	7.51	7.71
Aroclor-1268-3	(3)	7.81	7.81	7.81	7.81	7.81	7.81	7.71	7.91
Aroclor-1268-4	(4)	8.10	8.10	8.10	8.10	8.10	8.10	8.00	8.20
Aroclor-1268-5	(5)	8.39	8.39	8.39	8.39	8.39	8.39	8.29	8.49

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene	3.65	3.64	3.65	3.64	3.65	3.65	3.55	3.75

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Instrument ID: ECD_O

Calibration Date(s): 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID:		CF 1000 = <u>PO107184.D</u>		CF 750 = <u>PO107185.D</u>			
CF 500 = <u>PO107186.D</u>		CF 250 = <u>PO107187.D</u>		CF 050 = <u>PO107188.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	252081604	261702867	271939076	291118488	272229420	269814291 5
Aroclor-1016-2	(2)	373760062	383028583	397887352	419075308	410673320	396884925 5
Aroclor-1016-3	(3)	234678633	244145249	256575754	276405664	244042480	251169556 6
Aroclor-1016-4	(4)	185622493	193848624	202963902	215081552	165543020	192611918 10
Aroclor-1016-5	(5)	176326470	182141932	191487930	203514892	159796500	182653545 9
Aroclor-1260-1	(1)	238480871	246497651	259155974	277220676	271587560	258588546 6
Aroclor-1260-2	(2)	243402558	251747185	264083512	284216460	272650860	263220115 6
Aroclor-1260-3	(3)	167353086	171560129	181491762	195138068	183182660	179745141 6
Aroclor-1260-4	(4)	162125557	166999933	175289716	187582032	185522120	175503872 6
Aroclor-1260-5	(5)	268686175	273623828	283035894	299271412	297351500	284393762 5
Decachlorobiphenyl		2362750210	2427138920	2496479000	2603827440	2376686800	2453376474 4
Tetrachloro-m-xylene		8902656430	9087809293	9285762860	9548006280	8745262400	9113899453 3
Aroclor-1242-1	(1)	207947063	205572916	222208808	238956456	243522880	223641625 8
Aroclor-1242-2	(2)	302439626	299949616	323550412	342804408	348858880	323520588 7
Aroclor-1242-3	(3)	191912697	193178427	209638152	224306728	225847640	208976729 8
Aroclor-1242-4	(4)	150447174	145338196	162797508	173135964	168308740	160005516 7
Aroclor-1242-5	(5)	141009343	143408436	153689098	164623016	179679780	156481935 10
Decachlorobiphenyl		2339420350	2427742867	2492700840	2551827400	2426410200	2447620331 3
Tetrachloro-m-xylene		8860043620	8651743680	9146784160	9504075440	9174828800	9067495140 4
Aroclor-1248-1	(1)	155913014	164800668	175191332	184609772	188867720	173876501 8
Aroclor-1248-2	(2)	222845576	238202488	253637968	270074056	280366620	253025342 9
Aroclor-1248-3	(3)	231904923	246233752	259706092	274388212	266197800	255686156 7
Aroclor-1248-4	(4)	237210289	246633865	260533272	272872732	271860120	257822056 6
Aroclor-1248-5	(5)	236273499	246591072	260733536	276314120	280304600	260043365 7
Decachlorobiphenyl		2339780580	2371533013	2504089680	2566158680	2396701200	2435652631 4
Tetrachloro-m-xylene		8719403610	9119992693	9358904180	9492784200	8995773400	9137371617 3
Aroclor-1254-1	(1)	246822697	256579683	264992242	286189960	289157060	268748328 7
Aroclor-1254-2	(2)	348120894	361641555	373031238	401237980	402995760	377405485 6
Aroclor-1254-3	(3)	336293322	345653409	355909306	378498460	372630440	357796987 5
Aroclor-1254-4	(4)	213138598	220171503	227187688	242530220	244046960	229414994 6
Aroclor-1254-5	(5)	194609638	201069208	205869028	220139672	216546640	207646837 5
Decachlorobiphenyl		2357746210	2401897693	2508594000	2601578200	2359367400	2445836701 4
Tetrachloro-m-xylene		8883763230	9164627320	9184369060	9508828480	8791509400	9106619498 3
Aroclor-1268-1	(1)	351862425	352413819	364622844	381760528	369380480	364008019 3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	313096403	314491445	324862806	339637696	320299560	322477582	3
Aroclor-1268-3	(3)	272236453	272760276	282620036	293538700	275661940	279363481	3
Aroclor-1268-4	(4)	112236308	111261111	114714594	116428084	101458340	111219687	5
Aroclor-1268-5	(5)	836674479	833098204	847063314	864357444	781067560	832452200	4
Decachlorobiphenyl		4074190590	4136234160	4241958160	4399826360	4004084600	4171258774	4
Tetrachloro-m-xylene		9139601460	8935957933	9311606620	9495189880	8951901000	9166851379	3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: BSIG01
Lab Code: CHEM **Case No.:** P4647 **SAS No.:** P4647 **SDG NO.:** P4647
Instrument ID: ECD_O
Calibration Date(s): 10/15/2024 10/16/2024
Calibration Times: 18:27 02:36
GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 1000 =	PO107184.D	CF 750 =	PO107185.D			
CF 500 =		PO107186.D	CF 250 =	PO107187.D	CF 050 =	PO107188.D		
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	98519363	99934743	102532802	106601384	108740020	103265662	4
Aroclor-1016-2	(2)	140533795	142751421	144315942	146877552	130360060	140967754	5
Aroclor-1016-3	(3)	75819146	77111448	78799028	81783348	80215260	78745646	3
Aroclor-1016-4	(4)	61532960	63413097	65607722	69564368	70423600	66108349	6
Aroclor-1016-5	(5)	78878086	80970861	83522668	86940988	80356660	82133853	4
Aroclor-1260-1	(1)	150450531	152030172	155131756	161942364	156218200	155154605	3
Aroclor-1260-2	(2)	173752920	181526657	184104290	189736236	151457920	176115605	8
Aroclor-1260-3	(3)	168454604	170292340	172108108	175991544	151894120	167748143	6
Aroclor-1260-4	(4)	143637024	144895129	147115166	150514212	137242140	144680734	3
Aroclor-1260-5	(5)	340738400	339782780	336796716	340391952	289493480	329440666	7
Decachlorobiphenyl		2730622670	2745732653	2784792900	2852828640	2594005000	2741596373	3
Tetrachloro-m-xylene		3312014480	3338472613	3349065240	3230716080	2862214000	3218496483	6
Aroclor-1242-1	(1)	80390662	80447493	83937762	87266896	86674240	83743411	4
Aroclor-1242-2	(2)	114487494	111266404	117741916	120667112	114031640	115638913	3
Aroclor-1242-3	(3)	61817452	60461905	64396992	66865868	63624080	63433259	4
Aroclor-1242-4	(4)	60582529	60636219	64384594	68045260	66598220	64049364	5
Aroclor-1242-5	(5)	73763103	75675432	77215916	80736528	80226620	77523520	4
Decachlorobiphenyl		2686985320	2764418280	2764436780	2798541920	2665265400	2735929540	2
Tetrachloro-m-xylene		3315724680	3241948653	3341198040	3335574400	2920075400	3230904235	6
Aroclor-1248-1	(1)	60218805	63038185	64879120	66667236	62402400	63441149	4
Aroclor-1248-2	(2)	85173308	89108361	93061950	96541480	93540340	91485088	5
Aroclor-1248-3	(3)	89257070	93226611	97377878	100891904	96212540	95393201	5
Aroclor-1248-4	(4)	105934439	110533117	114760412	117772688	111691080	112138347	4
Aroclor-1248-5	(5)	102828085	105359652	109801380	114217964	119140640	110269544	6
Decachlorobiphenyl		2669365810	2682497173	2791873700	2836714480	2679938000	2732077833	3
Tetrachloro-m-xylene		3278417600	3389239440	3425836480	3362184040	2965722400	3284279992	6
Aroclor-1254-1	(1)	159855276	163854537	165548332	171717704	162964860	164788142	3
Aroclor-1254-2	(2)	138468840	142269335	144546922	151325972	148203140	144962842	3
Aroclor-1254-3	(3)	227061110	231385951	232213406	238575248	218867080	229620559	3
Aroclor-1254-4	(4)	128242906	130249965	131325350	135207044	122091880	129423429	4
Aroclor-1254-5	(5)	191904554	195153152	195378104	201188864	171636600	191052255	6
Decachlorobiphenyl		2726927150	2738190720	2773447120	2836815760	2598739800	2734824110	3
Tetrachloro-m-xylene		3347799560	3397335627	3354246660	3362236280	2930639600	3278451545	6
Aroclor-1268-1	(1)	419191400	409991492	413863584	410849472	368955300	404570250	5

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	389672996	380096764	383518208	378699872	334345600	373266688	6
Aroclor-1268-3	(3)	345284332	337828173	339535756	338755760	307004380	333681680	5
Aroclor-1268-4	(4)	129107993	127445005	127285362	129260796	113749480	125369727	5
Aroclor-1268-5	(5)	1049237500	1019311260	1017080130	996315476	856840280	987756929	8
Decachlorobiphenyl		4873889790	4739451973	4823511780	4890043960	4430545400	4751488581	4
Tetrachloro-m-xylene		3440286630	3329771373	3416104800	3331345720	2963806400	3296262985	6

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Instrument ID: ECD_O Date(s) Analyzed: 10/15/2024 10/16/2024

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	4.57	4.47	4.67	110010000
		2	4.66	4.56	4.76	78836600
		3	4.73	4.63	4.83	234100000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.73	4.63	4.83	195844000
		2	5.26	5.16	5.36	103025000
		3	5.54	5.44	5.64	179001000
		4	5.70	5.60	5.80	90165400
		5	5.80	5.70	5.90	65903200
Aroclor-1262	500	1	7.74	7.64	7.84	245548000
		2	8.28	8.18	8.38	309420000
		3	8.59	8.49	8.69	209196000
		4	8.68	8.58	8.78	163066000
		5	9.32	9.22	9.42	102764000

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Instrument ID: ECD_O Date(s) Analyzed: 10/15/2024 10/16/2024

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.86	3.76	3.96	34895600
		2	3.94	3.84	4.04	26624800
		3	4.02	3.92	4.12	81218600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.02	3.92	4.12	67327000
		2	4.75	4.65	4.85	63205200
		3	4.92	4.82	5.02	34475000
		4	5.00	4.90	5.10	31466000
		5	5.18	5.08	5.28	33083400
Aroclor-1262	500	1	6.76	6.66	6.86	212876000
		2	7.26	7.16	7.36	363332000
		3	7.54	7.44	7.64	137384000
		4	7.61	7.51	7.71	264574000
		5	8.10	8.00	8.20	112833000

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 18:22 Initial Calibration Time(s): 18:27 02:36

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.75	7.74	7.64	7.84	-0.01
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.29	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.07	10.06	9.96	10.16	-0.01

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 18:22 Initial Calibration Time(s): 18:27 02:36

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.73	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.18	5.18	5.08	5.28	0.00
Aroclor-1260-1	(1)	6.21	6.21	6.11	6.31	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL01 Date Analyzed: 11/01/2024

Lab Sample No.: AR1660CCC500 Data File : PO107605.D Time Analyzed: 18:22

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.522	5.423	5.623	518.530	500.000	3.7
Aroclor-1016-2	5.544	5.445	5.645	505.780	500.000	1.2
Aroclor-1016-3	5.606	5.507	5.707	501.120	500.000	0.2
Aroclor-1016-4	5.703	5.604	5.804	526.240	500.000	5.2
Aroclor-1016-5	5.998	5.899	6.099	537.670	500.000	7.5
Aroclor-1260-1	7.128	7.026	7.226	505.110	500.000	1.0
Aroclor-1260-2	7.384	7.282	7.482	524.330	500.000	4.9
Aroclor-1260-3	7.747	7.643	7.843	531.800	500.000	6.4
Aroclor-1260-4	7.971	7.868	8.068	533.400	500.000	6.7
Aroclor-1260-5	8.285	8.181	8.381	516.940	500.000	3.4
Decachlorobiphenyl	10.068	9.958	10.158	47.490	50.000	-5.0
Tetrachloro-m-xylene	4.371	4.274	4.474	52.280	50.000	4.6

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL01 Date Analyzed: 11/01/2024

Lab Sample No.: AR1660CCC500 Data File : PO107605.D Time Analyzed: 18:22

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.725	4.626	4.826	513.740	500.000	2.7
Aroclor-1016-2	4.744	4.645	4.845	525.190	500.000	5.0
Aroclor-1016-3	4.920	4.821	5.021	508.170	500.000	1.6
Aroclor-1016-4	4.961	4.862	5.062	475.230	500.000	-5.0
Aroclor-1016-5	5.175	5.076	5.276	506.160	500.000	1.2
Aroclor-1260-1	6.206	6.107	6.307	489.530	500.000	-2.1
Aroclor-1260-2	6.394	6.294	6.494	519.700	500.000	3.9
Aroclor-1260-3	6.547	6.448	6.648	508.860	500.000	1.8
Aroclor-1260-4	7.018	6.918	7.118	503.610	500.000	0.7
Aroclor-1260-5	7.259	7.159	7.359	530.580	500.000	6.1
Decachlorobiphenyl	8.640	8.539	8.739	50.080	50.000	0.2
Tetrachloro-m-xylene	3.644	3.545	3.745	51.380	50.000	2.8

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 22:07 Initial Calibration Time(s): 18:27 02:36

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.75	7.74	7.64	7.84	-0.01
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.29	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.07	10.06	9.96	10.16	-0.01

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Continuing Calib Date: 11/01/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 22:07 Initial Calibration Time(s): 18:27 02:36

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL02 Date Analyzed: 11/01/2024

Lab Sample No.: AR1660CCC500 Data File : PO107617.D Time Analyzed: 22:07

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.521	5.423	5.623	520.120	500.000	4.0
Aroclor-1016-2	5.544	5.445	5.645	502.650	500.000	0.5
Aroclor-1016-3	5.606	5.507	5.707	505.120	500.000	1.0
Aroclor-1016-4	5.703	5.604	5.804	534.940	500.000	7.0
Aroclor-1016-5	5.998	5.899	6.099	518.960	500.000	3.8
Aroclor-1260-1	7.127	7.026	7.226	502.860	500.000	0.6
Aroclor-1260-2	7.384	7.282	7.482	522.550	500.000	4.5
Aroclor-1260-3	7.746	7.643	7.843	528.660	500.000	5.7
Aroclor-1260-4	7.971	7.868	8.068	552.120	500.000	10.4
Aroclor-1260-5	8.285	8.181	8.381	522.950	500.000	4.6
Decachlorobiphenyl	10.071	9.958	10.158	47.880	50.000	-4.2
Tetrachloro-m-xylene	4.371	4.274	4.474	51.090	50.000	2.2

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL02 Date Analyzed: 11/01/2024

Lab Sample No.: AR1660CCC500 Data File : PO107617.D Time Analyzed: 22:07

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.723	4.626	4.826	507.760	500.000	1.6
Aroclor-1016-2	4.742	4.645	4.845	522.490	500.000	4.5
Aroclor-1016-3	4.918	4.821	5.021	502.610	500.000	0.5
Aroclor-1016-4	4.960	4.862	5.062	466.890	500.000	-6.6
Aroclor-1016-5	5.173	5.076	5.276	501.120	500.000	0.2
Aroclor-1260-1	6.204	6.107	6.307	491.540	500.000	-1.7
Aroclor-1260-2	6.392	6.294	6.494	520.280	500.000	4.1
Aroclor-1260-3	6.545	6.448	6.648	503.430	500.000	0.7
Aroclor-1260-4	7.016	6.918	7.118	504.530	500.000	0.9
Aroclor-1260-5	7.258	7.159	7.359	527.090	500.000	5.4
Decachlorobiphenyl	8.639	8.539	8.739	50.530	50.000	1.1
Tetrachloro-m-xylene	3.643	3.545	3.745	51.220	50.000	2.4

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Continuing Calib Date: 11/04/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 09:39 Initial Calibration Time(s): 18:27 02:36

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.75	7.74	7.64	7.84	-0.01
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.29	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.07	10.06	9.96	10.16	-0.01

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Continuing Calib Date: 11/04/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 09:39 Initial Calibration Time(s): 18:27 02:36

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.21	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL03 Date Analyzed: 11/04/2024

Lab Sample No.: AR1660CCC500 Data File : PO107624.D Time Analyzed: 09:39

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.522	5.423	5.623	489.910	500.000	-2.0
Aroclor-1016-2	5.544	5.445	5.645	475.890	500.000	-4.8
Aroclor-1016-3	5.607	5.507	5.707	470.250	500.000	-6.0
Aroclor-1016-4	5.704	5.604	5.804	490.430	500.000	-1.9
Aroclor-1016-5	5.999	5.899	6.099	493.770	500.000	-1.2
Aroclor-1260-1	7.128	7.026	7.226	487.280	500.000	-2.5
Aroclor-1260-2	7.384	7.282	7.482	506.380	500.000	1.3
Aroclor-1260-3	7.746	7.643	7.843	507.530	500.000	1.5
Aroclor-1260-4	7.971	7.868	8.068	529.190	500.000	5.8
Aroclor-1260-5	8.285	8.181	8.381	519.740	500.000	3.9
Decachlorobiphenyl	10.067	9.958	10.158	48.500	50.000	-3.0
Tetrachloro-m-xylene	4.372	4.274	4.474	49.380	50.000	-1.2

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL03 Date Analyzed: 11/04/2024

Lab Sample No.: AR1660CCC500 Data File : PO107624.D Time Analyzed: 09:39

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.724	4.626	4.826	517.590	500.000	3.5
Aroclor-1016-2	4.743	4.645	4.845	535.890	500.000	7.2
Aroclor-1016-3	4.919	4.821	5.021	513.970	500.000	2.8
Aroclor-1016-4	4.960	4.862	5.062	479.850	500.000	-4.0
Aroclor-1016-5	5.173	5.076	5.276	510.340	500.000	2.1
Aroclor-1260-1	6.205	6.107	6.307	494.360	500.000	-1.1
Aroclor-1260-2	6.392	6.294	6.494	524.820	500.000	5.0
Aroclor-1260-3	6.546	6.448	6.648	512.150	500.000	2.4
Aroclor-1260-4	7.016	6.918	7.118	512.060	500.000	2.4
Aroclor-1260-5	7.257	7.159	7.359	541.040	500.000	8.2
Decachlorobiphenyl	8.639	8.539	8.739	54.030	50.000	8.1
Tetrachloro-m-xylene	3.644	3.545	3.745	52.550	50.000	5.1

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Continuing Calib Date: 11/04/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 11:26 Initial Calibration Time(s): 18:27 02:36

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.75	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.07	10.06	9.96	10.16	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

Continuing Calib Date: 11/04/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 11:26 Initial Calibration Time(s): 18:27 02:36

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.01
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL04 Date Analyzed: 11/04/2024

Lab Sample No.: AR1660CCC500 Data File : PO107629.D Time Analyzed: 11:26

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.520	5.423	5.623	495.740	500.000	-0.9
Aroclor-1016-2	5.543	5.445	5.645	483.630	500.000	-3.3
Aroclor-1016-3	5.605	5.507	5.707	474.920	500.000	-5.0
Aroclor-1016-4	5.702	5.604	5.804	499.130	500.000	-0.2
Aroclor-1016-5	5.997	5.899	6.099	508.210	500.000	1.6
Aroclor-1260-1	7.126	7.026	7.226	509.270	500.000	1.9
Aroclor-1260-2	7.383	7.282	7.482	519.120	500.000	3.8
Aroclor-1260-3	7.745	7.643	7.843	522.220	500.000	4.4
Aroclor-1260-4	7.970	7.868	8.068	528.660	500.000	5.7
Aroclor-1260-5	8.283	8.181	8.381	520.190	500.000	4.0
Decachlorobiphenyl	10.065	9.958	10.158	48.540	50.000	-2.9
Tetrachloro-m-xylene	4.370	4.274	4.474	49.640	50.000	-0.7

CALIBRATION VERIFICATION SUMMARY

Contract: BSIG01

Lab Code: CHEM Case No.: P4647 SAS No.: P4647 SDG NO.: P4647

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL04 Date Analyzed: 11/04/2024

Lab Sample No.: AR1660CCC500 Data File : PO107629.D Time Analyzed: 11:26

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.723	4.626	4.826	510.300	500.000	2.1
Aroclor-1016-2	4.742	4.645	4.845	522.520	500.000	4.5
Aroclor-1016-3	4.918	4.821	5.021	503.120	500.000	0.6
Aroclor-1016-4	4.959	4.862	5.062	468.200	500.000	-6.4
Aroclor-1016-5	5.172	5.076	5.276	500.090	500.000	0.0
Aroclor-1260-1	6.203	6.107	6.307	491.800	500.000	-1.6
Aroclor-1260-2	6.391	6.294	6.494	519.880	500.000	4.0
Aroclor-1260-3	6.545	6.448	6.648	498.840	500.000	-0.2
Aroclor-1260-4	7.015	6.918	7.118	504.220	500.000	0.8
Aroclor-1260-5	7.256	7.159	7.359	535.390	500.000	7.1
Decachlorobiphenyl	8.637	8.539	8.739	53.380	50.000	6.8
Tetrachloro-m-xylene	3.642	3.545	3.745	51.330	50.000	2.7

Analytical Sequence

Client: BSI America Professional Services Inc.

SDG No.: P4647

Project: X007 @ P.S 7

Instrument ID: ECD_O

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 10/15/2024 10/15/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	10/15/2024	18:08	PO107183.D	10.06	4.37
AR1660ICC1000	AR1660ICC1000	10/15/2024	18:27	PO107184.D	10.06	4.37
AR1660ICC750	AR1660ICC750	10/15/2024	18:45	PO107185.D	10.06	4.37
AR1660ICC500	AR1660ICC500	10/15/2024	19:03	PO107186.D	10.06	4.37
AR1660ICC250	AR1660ICC250	10/15/2024	19:21	PO107187.D	10.06	4.37
AR1660ICC050	AR1660ICC050	10/15/2024	19:39	PO107188.D	10.06	4.37
AR1221ICC500	AR1221ICC500	10/15/2024	19:57	PO107189.D	10.06	4.37
AR1232ICC500	AR1232ICC500	10/15/2024	20:15	PO107190.D	10.06	4.37
AR1242ICC1000	AR1242ICC1000	10/15/2024	20:34	PO107191.D	10.06	4.37
AR1242ICC750	AR1242ICC750	10/15/2024	20:52	PO107192.D	10.06	4.37
AR1242ICC500	AR1242ICC500	10/15/2024	21:10	PO107193.D	10.06	4.37
AR1242ICC250	AR1242ICC250	10/15/2024	21:28	PO107194.D	10.06	4.37
AR1242ICC050	AR1242ICC050	10/15/2024	21:46	PO107195.D	10.06	4.37
AR1248ICC1000	AR1248ICC1000	10/15/2024	22:04	PO107196.D	10.06	4.37
AR1248ICC750	AR1248ICC750	10/15/2024	22:22	PO107197.D	10.06	4.37
AR1248ICC500	AR1248ICC500	10/15/2024	22:41	PO107198.D	10.06	4.37
AR1248ICC250	AR1248ICC250	10/15/2024	22:59	PO107199.D	10.06	4.37
AR1248ICC050	AR1248ICC050	10/15/2024	23:17	PO107200.D	10.06	4.37
AR1254ICC1000	AR1254ICC1000	10/15/2024	23:35	PO107201.D	10.06	4.37
AR1254ICC750	AR1254ICC750	10/15/2024	23:53	PO107202.D	10.06	4.37
AR1254ICC500	AR1254ICC500	10/16/2024	00:11	PO107203.D	10.06	4.37
AR1254ICC250	AR1254ICC250	10/16/2024	00:29	PO107204.D	10.06	4.37
AR1254ICC050	AR1254ICC050	10/16/2024	00:47	PO107205.D	10.06	4.37
AR1262ICC500	AR1262ICC500	10/16/2024	01:05	PO107206.D	10.06	4.37
AR1268ICC1000	AR1268ICC1000	10/16/2024	01:23	PO107207.D	10.06	4.37
AR1268ICC750	AR1268ICC750	10/16/2024	01:41	PO107208.D	10.06	4.37
AR1268ICC500	AR1268ICC500	10/16/2024	01:59	PO107209.D	10.06	4.37
AR1268ICC250	AR1268ICC250	10/16/2024	02:18	PO107210.D	10.06	4.37
AR1268ICC050	AR1268ICC050	10/16/2024	02:36	PO107211.D	10.06	4.37
AR1660CCC500	AR1660CCC500	11/01/2024	18:22	PO107605.D	10.07	4.37
IBLK	IBLK	11/01/2024	19:43	PO107610.D	10.07	4.37
PB164591BL	PB164591BL	11/01/2024	19:59	PO107611.D	10.07	4.37
PB164591BS	PB164591BS	11/01/2024	20:16	PO107612.D	10.07	4.37
AR1660CCC500	AR1660CCC500	11/01/2024	22:07	PO107617.D	10.07	4.37
IBLK	IBLK	11/01/2024	23:28	PO107622.D	10.07	4.37
AR1660CCC500	AR1660CCC500	11/04/2024	09:39	PO107624.D	10.07	4.37
IBLK	IBLK	11/04/2024	09:55	PO107625.D	10.07	4.37
01A-01B-01C	P4647-01	11/04/2024	10:12	PO107626.D	10.07	4.37
AR1660CCC500	AR1660CCC500	11/04/2024	11:26	PO107629.D	10.07	4.37
IBLK	IBLK	11/04/2024	12:33	PO107633.D	10.07	4.37

Analytical Sequence

Client: BSI America Professional Services Inc.

SDG No.: P4647

Project: X007 @ P.S 7

Instrument ID: ECD_O

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 10/15/2024 10/15/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	10/15/2024	18:08	PO107183.D	8.64	3.64
AR1660ICC1000	AR1660ICC1000	10/15/2024	18:27	PO107184.D	8.64	3.64
AR1660ICC750	AR1660ICC750	10/15/2024	18:45	PO107185.D	8.64	3.64
AR1660ICC500	AR1660ICC500	10/15/2024	19:03	PO107186.D	8.64	3.65
AR1660ICC250	AR1660ICC250	10/15/2024	19:21	PO107187.D	8.64	3.64
AR1660ICC050	AR1660ICC050	10/15/2024	19:39	PO107188.D	8.64	3.64
AR1221ICC500	AR1221ICC500	10/15/2024	19:57	PO107189.D	8.64	3.64
AR1232ICC500	AR1232ICC500	10/15/2024	20:15	PO107190.D	8.64	3.64
AR1242ICC1000	AR1242ICC1000	10/15/2024	20:34	PO107191.D	8.64	3.64
AR1242ICC750	AR1242ICC750	10/15/2024	20:52	PO107192.D	8.64	3.64
AR1242ICC500	AR1242ICC500	10/15/2024	21:10	PO107193.D	8.64	3.64
AR1242ICC250	AR1242ICC250	10/15/2024	21:28	PO107194.D	8.64	3.65
AR1242ICC050	AR1242ICC050	10/15/2024	21:46	PO107195.D	8.64	3.64
AR1248ICC1000	AR1248ICC1000	10/15/2024	22:04	PO107196.D	8.64	3.64
AR1248ICC750	AR1248ICC750	10/15/2024	22:22	PO107197.D	8.64	3.64
AR1248ICC500	AR1248ICC500	10/15/2024	22:41	PO107198.D	8.64	3.64
AR1248ICC250	AR1248ICC250	10/15/2024	22:59	PO107199.D	8.64	3.64
AR1248ICC050	AR1248ICC050	10/15/2024	23:17	PO107200.D	8.64	3.64
AR1254ICC1000	AR1254ICC1000	10/15/2024	23:35	PO107201.D	8.64	3.65
AR1254ICC750	AR1254ICC750	10/15/2024	23:53	PO107202.D	8.64	3.64
AR1254ICC500	AR1254ICC500	10/16/2024	00:11	PO107203.D	8.64	3.64
AR1254ICC250	AR1254ICC250	10/16/2024	00:29	PO107204.D	8.64	3.64
AR1254ICC050	AR1254ICC050	10/16/2024	00:47	PO107205.D	8.64	3.65
AR1262ICC500	AR1262ICC500	10/16/2024	01:05	PO107206.D	8.64	3.64
AR1268ICC1000	AR1268ICC1000	10/16/2024	01:23	PO107207.D	8.64	3.65
AR1268ICC750	AR1268ICC750	10/16/2024	01:41	PO107208.D	8.64	3.64
AR1268ICC500	AR1268ICC500	10/16/2024	01:59	PO107209.D	8.64	3.65
AR1268ICC250	AR1268ICC250	10/16/2024	02:18	PO107210.D	8.64	3.64
AR1268ICC050	AR1268ICC050	10/16/2024	02:36	PO107211.D	8.64	3.65
AR1660CCC500	AR1660CCC500	11/01/2024	18:22	PO107605.D	8.64	3.64
IBLK	IBLK	11/01/2024	19:43	PO107610.D	8.64	3.64
PB164591BL	PB164591BL	11/01/2024	19:59	PO107611.D	8.64	3.64
PB164591BS	PB164591BS	11/01/2024	20:16	PO107612.D	8.64	3.64
AR1660CCC500	AR1660CCC500	11/01/2024	22:07	PO107617.D	8.64	3.64
IBLK	IBLK	11/01/2024	23:28	PO107622.D	8.64	3.64
AR1660CCC500	AR1660CCC500	11/04/2024	09:39	PO107624.D	8.64	3.64
IBLK	IBLK	11/04/2024	09:55	PO107625.D	8.64	3.64
01A-01B-01C	P4647-01	11/04/2024	10:12	PO107626.D	8.64	3.64
AR1660CCC500	AR1660CCC500	11/04/2024	11:26	PO107629.D	8.64	3.64
IBLK	IBLK	11/04/2024	12:33	PO107633.D	8.64	3.64



QC SAMPLE DATA

Report of Analysis

Client:	BSI America Professional Services Inc.		Date Collected:		
Project:	X007 @ P.S 7		Date Received:		
Client Sample ID:	PB164591BL		SDG No.:	P4647	
Lab Sample ID:	PB164591BL		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107611.D	1	11/01/24 09:11	11/01/24 19:59	PB164591

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.40	U	3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	2.90	U	2.90	17.0	ug/kg
Total PCBs	Total PCBs	7.90	U	7.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.0		32 - 144	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.1		32 - 175	115%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	BSI America Professional Services Inc.		Date Collected:	10/15/24	
Project:	X007 @ P.S 7		Date Received:	10/15/24	
Client Sample ID:	PIBLK-PO107183.D		SDG No.:	P4647	
Lab Sample ID:	I.BLK-PO107183.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107183.D	1		10/15/24	po101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		60 - 140	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.8		60 - 140	114%	SPK: 20

Comments:

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Report of Analysis

Client:	BSI America Professional Services Inc.		Date Collected:	11/01/24	
Project:	X007 @ P.S 7		Date Received:	11/01/24	
Client Sample ID:	PIBLK-PO107610.D		SDG No.:	P4647	
Lab Sample ID:	I.BLK-PO107610.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107610.D	1		11/01/24	PO110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.9		60 - 140	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.3		60 - 140	92%	SPK: 20

Comments:

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B = Analyte Found in Associated Method Blank

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Report of Analysis

Client:	BSI America Professional Services Inc.		Date Collected:	11/01/24	
Project:	X007 @ P.S 7		Date Received:	11/01/24	
Client Sample ID:	PIBLK-PO107622.D		SDG No.:	P4647	
Lab Sample ID:	I.BLK-PO107622.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107622.D	1		11/01/24	PO110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.9		60 - 140	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.6		60 - 140	93%	SPK: 20

Comments:

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Report of Analysis

Client:	BSI America Professional Services Inc.		Date Collected:	11/04/24	
Project:	X007 @ P.S 7		Date Received:	11/04/24	
Client Sample ID:	PIBLK-PO107625.D		SDG No.:	P4647	
Lab Sample ID:	I.BLK-PO107625.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107625.D	1		11/04/24	PO110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.1		60 - 140	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.2		60 - 140	106%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

Report of Analysis

Client:	BSI America Professional Services Inc.		Date Collected:	11/04/24	
Project:	X007 @ P.S 7		Date Received:	11/04/24	
Client Sample ID:	PIBLK-PO107633.D		SDG No.:	P4647	
Lab Sample ID:	I.BLK-PO107633.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107633.D	1		11/04/24	PO110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		60 - 140	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.3		60 - 140	106%	SPK: 20

Comments:

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D = Dilution

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() = Laboratory InHouse Limit

Report of Analysis

Client:	BSI America Professional Services Inc.		Date Collected:		
Project:	X007 @ P.S 7		Date Received:		
Client Sample ID:	PB164591BS		SDG No.:	P4647	
Lab Sample ID:	PB164591BS		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107612.D	1	11/01/24 09:11	11/01/24 20:16	PB164591

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	167		3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	168		2.90	17.0	ug/kg
Total PCBs	Total PCBs	335		6.30	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.2		32 - 144	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.1		32 - 175	115%	SPK: 20

Comments:

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SHIPPING DOCUMENTS

...making excellence a habit."

SAMPLING CHAIN-OF-CUSTODY FORM

PAGE () OF ()

<u>Date Collected:</u> 10/29/2024	<u>School Name:</u> X007 3007 @ P.S. 7	<u>Client:</u> NYC SCA	<u>Service ID/Service:</u> 93755
<u>Collected by:</u> Chris Vakaris/Kekala	<u>School Address:</u> 3201 Kingsbridge Ave, Bronx, NY 10463	<u>BSI Project No.</u> 1328949	<u>SCA Project ID:</u> D022535: 198512

Task / Activity:	Inspection,	Repair/	Interim Control,	Construction/Alteration/Demolition,	Other
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Matrix: S = SOIL; L = LIQUID; A = AIR; SL = SLUDGE; W = WIPE; P = PAINT CHIPS; B = BULK MATERIAL

Laboratory: X **Chemtech**, ELAP No. **11376** **Analysis Requested:** As Indicated
Phoenix Analytical; ELAP No. **11301**

[illegible]

Turn-Around-Time: Immediate 24 Hr. X 48 Hr. 72 Hr. **Results to: X** **E-mail:** Alex.Arrigo@BSIGroup.com

Special Instructions: Composite Please create 3 sample composites (for example, 01A, 01B and 01C should be composited to a single sample)

Site			Delivery Method	Laboratory					
Relinquished By	Date	Time		Received By	Date	Time	Analyzed By	Date	Time
Name (Print)	10/30/24	8:00AM	Counter Pick-up Feedback	Name (Print)	10-31-24	9:45	Name (Print)		
Signature				Christova, Peric			Signature		

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Date: 10-31-24

Client Project Name: X007 @ P.S. 7

Sample Custodian: _____

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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488