

LAB CHRONICLE

OrderID:	Q1216	OrderDate:	1/29/2025 11:54:00 AM
Client:	RU2 Engineering, LLC	Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	Location:	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1216-01	JPP-18.1-012825	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/28/25	01/30/25	01/30/25 01/30/25	01/29/25
Q1216-03	JPP-18.1-012825	SOIL	PCB	8082A	01/28/25	01/30/25	01/30/25	01/29/25
Q1216-05	JPP-21.1-012825	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/28/25	01/30/25	01/30/25 01/30/25	01/29/25
Q1216-07	JPP-21.1-012825	SOIL	PCB	8082A	01/28/25	01/30/25	01/30/25	01/29/25
Q1216-09	JPP-21.2-012825	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/28/25	01/30/25	01/30/25 01/30/25	01/29/25
Q1216-11	JPP-21.2-012825	SOIL	PCB	8082A	01/28/25	01/30/25	01/30/25	01/29/25
Q1216-13	JPP-26.1-012825	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/28/25	01/30/25	01/30/25 01/30/25	01/29/25
Q1216-15	JPP-26.1-012825	SOIL	PCB	8082A	01/28/25	01/30/25	01/30/25	01/29/25
Q1216-17	JPP-26.2-012825	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/28/25	01/30/25	01/30/25 01/30/25	01/29/25
Q1216-19	JPP-26.2-012825	SOIL			01/28/25			01/29/25

LAB CHRONICLE

PCB	8082A	01/30/25	01/30/25
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Hit Summary Sheet
SW-846

SDG No.: Q1216

Order ID: Q1216

Client: RU2 Engineering, LLC

Project ID: NYCDDC SANTWOBR Brooklyn Bri

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : JPP-18.1-012825								
Q1216-03	JPP-18.1-012825	SOIL	Aroclor-1260	8.10	J	3.50	20.4	ug/kg
			Total Concentration:	8.100				
Client ID : JPP-21.1-012825								
Q1216-07	JPP-21.1-012825	SOIL	Aroclor-1260	27.8		3.20	18.8	ug/kg
			Total Concentration:	27.800				
Client ID : JPP-21.2-012825								
Q1216-11	JPP-21.2-012825	SOIL	Aroclor-1260	52.6		3.40	20.1	ug/kg
			Total Concentration:	52.600				
Client ID : JPP-26.2-012825								
Q1216-19	JPP-26.2-012825	SOIL	Aroclor-1260	28.1		3.40	19.8	ug/kg
			Total Concentration:	28.100				



SAMPLE DATA

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-18.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	83.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109282.D	1	01/30/25 08:30	01/30/25 13:43	PB166358

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	20.4	U	4.10	20.4	ug/kg
11104-28-2	Aroclor-1221	20.4	U	7.70	20.4	ug/kg
11141-16-5	Aroclor-1232	20.4	U	4.10	20.4	ug/kg
53469-21-9	Aroclor-1242	20.4	U	4.10	20.4	ug/kg
12672-29-6	Aroclor-1248	20.4	U	9.40	20.4	ug/kg
11097-69-1	Aroclor-1254	20.4	U	3.30	20.4	ug/kg
37324-23-5	Aroclor-1262	20.4	U	5.50	20.4	ug/kg
11100-14-4	Aroclor-1268	20.4	U	4.10	20.4	ug/kg
11096-82-5	Aroclor-1260	8.10	J	3.50	20.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.9		32 - 144	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.6		32 - 175	68%	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:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-21.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-07	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109283.D	1	01/30/25 08:30	01/30/25 14:01	PB166358

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	18.8	U	3.70	18.8	ug/kg
11104-28-2	Aroclor-1221	18.8	U	7.10	18.8	ug/kg
11141-16-5	Aroclor-1232	18.8	U	3.80	18.8	ug/kg
53469-21-9	Aroclor-1242	18.8	U	3.70	18.8	ug/kg
12672-29-6	Aroclor-1248	18.8	U	8.70	18.8	ug/kg
11097-69-1	Aroclor-1254	18.8	U	3.00	18.8	ug/kg
37324-23-5	Aroclor-1262	18.8	U	5.10	18.8	ug/kg
11100-14-4	Aroclor-1268	18.8	U	3.80	18.8	ug/kg
11096-82-5	Aroclor-1260	27.8		3.20	18.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.4		32 - 144	107%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.8		32 - 175	79%	SPK: 20

Comments:

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-21.2-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-11	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	84.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109284.D	1	01/30/25 08:30	01/30/25 14:20	PB166358

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	20.1	U	4.00	20.1	ug/kg
11104-28-2	Aroclor-1221	20.1	U	7.60	20.1	ug/kg
11141-16-5	Aroclor-1232	20.1	U	4.00	20.1	ug/kg
53469-21-9	Aroclor-1242	20.1	U	4.00	20.1	ug/kg
12672-29-6	Aroclor-1248	20.1	U	9.30	20.1	ug/kg
11097-69-1	Aroclor-1254	20.1	U	3.20	20.1	ug/kg
37324-23-5	Aroclor-1262	20.1	U	5.40	20.1	ug/kg
11100-14-4	Aroclor-1268	20.1	U	4.10	20.1	ug/kg
11096-82-5	Aroclor-1260	52.6		3.40	20.1	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		32 - 144	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.7		32 - 175	78%	SPK: 20

Comments:

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-26.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-15	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	82.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109285.D	1	01/30/25 08:30	01/30/25 14:38	PB166358

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	20.5	U	4.10	20.5	ug/kg
11104-28-2	Aroclor-1221	20.5	U	7.70	20.5	ug/kg
11141-16-5	Aroclor-1232	20.5	U	4.10	20.5	ug/kg
53469-21-9	Aroclor-1242	20.5	U	4.10	20.5	ug/kg
12672-29-6	Aroclor-1248	20.5	U	9.50	20.5	ug/kg
11097-69-1	Aroclor-1254	20.5	U	3.30	20.5	ug/kg
37324-23-5	Aroclor-1262	20.5	U	5.50	20.5	ug/kg
11100-14-4	Aroclor-1268	20.5	U	4.10	20.5	ug/kg
11096-82-5	Aroclor-1260	20.5	U	3.50	20.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.0		32 - 144	90%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.0		32 - 175	65%	SPK: 20

Comments:

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B = Analyte Found in Associated Method Blank

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* = Values outside of QC limits

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() = Laboratory InHouse Limit

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-26.2-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-19	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	85.8
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109286.D	1	01/30/25 08:30	01/30/25 14:56	PB166358

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	19.8	U	3.90	19.8	ug/kg
11104-28-2	Aroclor-1221	19.8	U	7.50	19.8	ug/kg
11141-16-5	Aroclor-1232	19.8	U	4.00	19.8	ug/kg
53469-21-9	Aroclor-1242	19.8	U	3.90	19.8	ug/kg
12672-29-6	Aroclor-1248	19.8	U	9.20	19.8	ug/kg
11097-69-1	Aroclor-1254	19.8	U	3.20	19.8	ug/kg
37324-23-5	Aroclor-1262	19.8	U	5.30	19.8	ug/kg
11100-14-4	Aroclor-1268	19.8	U	4.00	19.8	ug/kg
11096-82-5	Aroclor-1260	28.1		3.40	19.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.9		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.1		32 - 175	75%	SPK: 20

Comments:

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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

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QC SUMMARY

Surrogate Summary

SDG No.: Q1216

Client: RU2 Engineering, LLC

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PO108981.D	PIBLK-PO108981.D	Tetrachloro-m-xylene	1	20	21.9	109		60	140
		Decachlorobiphenyl	1	20	21.6	108		60	140
		Tetrachloro-m-xylene	2	20	20.6	103		60	140
		Decachlorobiphenyl	2	20	21.9	109		60	140
I.BLK-PO109277.D	PIBLK-PO109277.D	Tetrachloro-m-xylene	1	20	23.2	116		60	140
		Decachlorobiphenyl	1	20	22.4	112		60	140
		Tetrachloro-m-xylene	2	20	22.9	114		60	140
		Decachlorobiphenyl	2	20	21.6	108		60	140
PB166358BL	PB166358BL	Tetrachloro-m-xylene	1	20	24.8	124		32	144
		Decachlorobiphenyl	1	20	23.6	118		32	175
		Tetrachloro-m-xylene	2	20	23.6	118		32	144
		Decachlorobiphenyl	2	20	22.5	113		32	175
PB166358BS	PB166358BS	Tetrachloro-m-xylene	1	20	21.8	109		32	144
		Decachlorobiphenyl	1	20	22.6	113		32	175
		Tetrachloro-m-xylene	2	20	21.9	110		32	144
		Decachlorobiphenyl	2	20	21.6	108		32	175
Q1216-03	JPP-18.1-012825	Tetrachloro-m-xylene	1	20	19.2	96		32	144
		Decachlorobiphenyl	1	20	13.5	68		32	175
		Tetrachloro-m-xylene	2	20	19.9	99		32	144
		Decachlorobiphenyl	2	20	13.6	68		32	175
Q1216-07	JPP-21.1-012825	Tetrachloro-m-xylene	1	20	20.9	105		32	144
		Decachlorobiphenyl	1	20	15.3	76		32	175
		Tetrachloro-m-xylene	2	20	21.4	107		32	144
		Decachlorobiphenyl	2	20	15.8	79		32	175
Q1216-11	JPP-21.2-012825	Tetrachloro-m-xylene	1	20	21.9	109		32	144
		Decachlorobiphenyl	1	20	14.6	73		32	175
		Tetrachloro-m-xylene	2	20	21.9	109		32	144
		Decachlorobiphenyl	2	20	15.7	78		32	175
Q1216-15	JPP-26.1-012825	Tetrachloro-m-xylene	1	20	18.0	90		32	144
		Decachlorobiphenyl	1	20	11.5	58		32	175
		Tetrachloro-m-xylene	2	20	18.0	90		32	144
		Decachlorobiphenyl	2	20	13.0	65		32	175
Q1216-19	JPP-26.2-012825	Tetrachloro-m-xylene	1	20	18.4	92		32	144
		Decachlorobiphenyl	1	20	14.1	70		32	175
		Tetrachloro-m-xylene	2	20	18.9	94		32	144
		Decachlorobiphenyl	2	20	15.1	75		32	175
I.BLK-PO109292.D	PIBLK-PO109292.D	Tetrachloro-m-xylene	1	20	23.1	115		60	140
		Decachlorobiphenyl	1	20	18.9	94		60	140
		Tetrachloro-m-xylene	2	20	22.7	113		60	140
		Decachlorobiphenyl	2	20	20.9	104		60	140
Q1220-01MS	TR-06-01292025MS	Tetrachloro-m-xylene	1	20	15.5	77		32	144

Surrogate Summary

SDG No.: Q1216

Client: RU2 Engineering, LLC

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
Q1220-01MS	TR-06-01292025MS	Decachlorobiphenyl	1	20	15.5	78		32	175
		Tetrachloro-m-xylene	2	20	16.3	81		32	144
		Decachlorobiphenyl	2	20	17.0	85		32	175
Q1220-01MSD	TR-06-01292025MSD	Tetrachloro-m-xylene	1	20	15.3	76		32	144
		Decachlorobiphenyl	1	20	15.1	75		32	175
		Tetrachloro-m-xylene	2	20	16.3	82		32	144
		Decachlorobiphenyl	2	20	16.3	82		32	175
		Tetrachloro-m-xylene	1	20	22.9	114		60	140
I.BLK-PO109306.D	PIBLK-PO109306.D	Decachlorobiphenyl	1	20	18.3	92		60	140
		Tetrachloro-m-xylene	2	20	23.0	115		60	140
		Decachlorobiphenyl	2	20	19.9	100		60	140

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1216

Client: RU2 Engineering, LLC

Analytical Method: 8082A

DataFile : PO109295.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	TR-06-01292025MS											
Q1220-01MS	AR1016	178.4	0	135	ug/kg	76				55	146	
	AR1260	178.4	0	124	ug/kg	70				45	144	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1216

Client: RU2 Engineering, LLC

Analytical Method: 8082A

DataFile : PO109296.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	TR-06-01292025MSD											
Q1220-01MSD	AR1016	178.5	0	131	ug/kg	73		4		55	146	20
	AR1260	178.5	0	120	ug/kg	67		4		45	144	20



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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1216

Client: RU2 Engineering, LLC

Analytical Method: 8082A Datafile : PO109279.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB166358BS	AR1016	166.6	154	ug/kg	92				71	120		
	AR1260	166.6	147	ug/kg	88				65	130		

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166358BL

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216

SAS No.: Q1216 SDG NO.: Q1216

Lab Sample ID: PB166358BL

Lab File ID: PO109278.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 01/30/2025

Date Analyzed (1): 01/30/2025

Date Analyzed (2): 01/30/2025

Time Analyzed (1): 12:30

Time Analyzed (2): 12:30

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
PB166358BS	PB166358BS	PO109279.D	01/30/2025	01/30/2025
JPP-18.1-012825	Q1216-03	PO109282.D	01/30/2025	01/30/2025
JPP-21.1-012825	Q1216-07	PO109283.D	01/30/2025	01/30/2025
JPP-21.2-012825	Q1216-11	PO109284.D	01/30/2025	01/30/2025
JPP-26.1-012825	Q1216-15	PO109285.D	01/30/2025	01/30/2025
JPP-26.2-012825	Q1216-19	PO109286.D	01/30/2025	01/30/2025
TR-06-01292025MS	Q1220-01MS	PO109295.D	01/30/2025	01/30/2025
TR-06-01292025MSD	Q1220-01MSD	PO109296.D	01/30/2025	01/30/2025

COMMENTS: _____



CALIBRATION SUMMARY

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Calibration Times: 17:36 01:50

LAB FILE ID:	RT 1000 =	<u>PO108982.D</u>	RT 750 =	<u>PO108983.D</u>
	RT 500 =	PO108984.D	RT 250 =	PO108985.D
			RT 050 =	PO108986.D

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.76	8.76	8.76	8.76	8.76	8.76	8.66	8.86
Tetrachloro-m-xylene	3.70	3.70	3.70	3.70	3.70	3.70	3.60	3.80

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Calibration Times: 17:36 01:50

LAB FILE ID:	RT 1000 =	<u>PO108982.D</u>	RT 750 =	<u>PO108983.D</u>
	RT 500 =	PO108984.D	RT 250 =	PO108985.D
			RT 050 =	PO108986.D

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene	3.70	3.70	3.70	3.70	3.70	3.70	3.60	3.80

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1216 **SAS No.:** Q1216 **SDG NO.:** Q1216

Instrument ID: ECD_O **Calibration Date(s):** 01/21/2025 01/22/2025
Calibration Times: 17:36 01:50

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

LAB FILE ID:		CF 1000 = <u>PO108982.D</u>		CF 750 = <u>PO108983.D</u>			
CF 500 = <u>PO108984.D</u>		CF 250 = <u>PO108985.D</u>		CF 050 = <u>PO108986.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	233065045	244410019	248250902	263810212	271896440	252286524
Aroclor-1016-2	(2)	325363679	338972765	344308556	357996712	357782160	344884774
Aroclor-1016-3	(3)	223049536	234801713	240773660	257313424	264644780	244116623
Aroclor-1016-4	(4)	175974311	184579665	189100190	198987084	205504880	190829226
Aroclor-1016-5	(5)	190134930	199311205	207066494	222947156	224348000	208761557
Aroclor-1260-1	(1)	348800771	364882765	375462458	399932624	416699380	381155600
Aroclor-1260-2	(2)	430525248	448276513	461774946	488220872	519105560	469580628
Aroclor-1260-3	(3)	359859412	378331397	386511394	408169100	424938760	391562013
Aroclor-1260-4	(4)	332481764	347292652	354683668	372951676	382377400	357957432
Aroclor-1260-5	(5)	803151986	830038244	833771178	853559688	852457760	834595771
Decachlorobiphenyl		6434348190	6661231787	6830111140	7188416880	7524624800	6927746559
Tetrachloro-m-xylene		7601276640	7501278947	7481675880	7644109480	7553803600	7556428909
Aroclor-1242-1	(1)	195196952	201389908	214304986	226003920	225308640	212440881
Aroclor-1242-2	(2)	268098195	278641713	289244872	304071824	293574460	286726213
Aroclor-1242-3	(3)	186201466	194711956	206440658	220830688	215362160	204709386
Aroclor-1242-4	(4)	146339247	152438169	160415562	170237596	164916200	158869355
Aroclor-1242-5	(5)	154300112	158580243	167963632	178401740	175909460	167031037
Decachlorobiphenyl		6093757170	6273163067	6555969800	6873050240	6988220200	6556832095
Tetrachloro-m-xylene		7302831450	7496516067	7696349800	7451780120	6586958200	7306887127
Aroclor-1248-1	(1)	145246997	150453889	157781164	170519664	173855120	159571367
Aroclor-1248-2	(2)	197265768	209686637	218963792	239048120	252482700	223489403
Aroclor-1248-3	(3)	248188978	257855635	270690240	293270108	299294900	273859972
Aroclor-1248-4	(4)	351583188	362624208	379215116	402583304	426725120	384546187
Aroclor-1248-5	(5)	245666962	251879323	262640736	279614828	288543680	265669106
Decachlorobiphenyl		6072639940	6272001520	6560139460	6944778840	7129210800	6595754112
Tetrachloro-m-xylene		7184593920	7370395840	7484351680	7653720840	7312573400	7401127136
Aroclor-1254-1	(1)	374847163	389452248	410697836	433454068	459205320	413531327
Aroclor-1254-2	(2)	325342531	339278107	358066768	381289080	405152620	361825821
Aroclor-1254-3	(3)	522141746	540493293	562618572	587400960	607950820	564121078
Aroclor-1254-4	(4)	328382284	332039301	348673262	361037032	352970440	344620464
Aroclor-1254-5	(5)	475331089	489980032	515035558	537655848	547482260	513096957
Decachlorobiphenyl		6154630290	6360969147	6655043100	6960677720	7204237800	6667111611
Tetrachloro-m-xylene		7266635340	7453080907	7677404800	7686251640	7337350200	7484144577
Aroclor-1268-1	(1)	1033690630	1036942464	1067670602	1080273708	1104982020	1064711885

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	952087675	951155156	979561020	979388044	983362060	969110791	2
Aroclor-1268-3	(3)	786406202	784932265	807859298	814292396	834332900	805564612	3
Aroclor-1268-4	(4)	327369336	328395845	341390382	351699060	363994160	342569757	5
Aroclor-1268-5	(5)	2419252053	2385425329	2430042174	2398845144	2323360200	2391384980	2
Decachlorobiphenyl		11036128070	11026162653	11389192500	11664983320	12135593800	11450412069	4
Tetrachloro-m-xylene		7546638300	7604080347	7812040940	7844017680	7509481400	7663251733	2

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1216 **SAS No.:** Q1216 **SDG NO.:** Q1216

Instrument ID: ECD_O **Calibration Date(s):** 01/21/2025 01/22/2025
Calibration Times: 17:36 01:50

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

LAB FILE ID:		CF 1000 = <u>PO108982.D</u>		CF 750 = <u>PO108983.D</u>			
CF 500 = <u>PO108984.D</u>		CF 250 = <u>PO108985.D</u>		CF 050 = <u>PO108986.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	145518803	142573049	166649690	172900172	181948120	11
Aroclor-1016-2	(2)	223129267	236622256	232122136	250011316	249296120	5
Aroclor-1016-3	(3)	121270732	126119179	128693642	138175620	137629920	6
Aroclor-1016-4	(4)	98703058	105288716	109289440	120650588	118660940	8
Aroclor-1016-5	(5)	130939362	136319948	141694888	155164716	153595760	7
Aroclor-1260-1	(1)	229857010	239931019	247217984	265407312	277830920	8
Aroclor-1260-2	(2)	274616892	283537992	291890314	314812824	339164440	9
Aroclor-1260-3	(3)	255547157	264550967	272530098	288370904	310931080	8
Aroclor-1260-4	(4)	210034482	216033343	222462830	233977972	245747280	6
Aroclor-1260-5	(5)	481178354	492665984	499979908	514637484	514938920	3
Decachlorobiphenyl		3156544800	3289680693	3391332080	3623383520	3732817400	7
Tetrachloro-m-xylene		5315746230	5437498093	5428207440	5462079080	5158066000	2
Aroclor-1242-1	(1)	130294727	135534199	142873858	151389892	154466220	7
Aroclor-1242-2	(2)	183791222	188978371	198913930	207089908	207312700	5
Aroclor-1242-3	(3)	100083291	104057155	110676450	116018292	114379700	6
Aroclor-1242-4	(4)	101694040	106737525	114342192	123447428	121997980	8
Aroclor-1242-5	(5)	124175329	128045065	135895568	145256248	150561360	8
Decachlorobiphenyl		2975923130	3104041173	3249737920	3444762080	3552503800	7
Tetrachloro-m-xylene		5146305370	5269389160	5422425040	5452266880	4942424000	4
Aroclor-1248-1	(1)	97508588	101198119	106540372	114549420	116802080	8
Aroclor-1248-2	(2)	135954819	143343636	151605960	164947764	174030220	10
Aroclor-1248-3	(3)	145968318	152945292	161442194	176334456	190180940	11
Aroclor-1248-4	(4)	171715835	178859555	187881420	202639424	216432800	9
Aroclor-1248-5	(5)	167823607	172638881	180053168	192035492	203508660	8
Decachlorobiphenyl		3009595400	3126029333	3260555920	3479534800	3551272200	7
Tetrachloro-m-xylene		5072748910	5224226253	5283938200	5402921120	5021628000	3
Aroclor-1254-1	(1)	253547823	264686405	278940988	295164372	313075680	8
Aroclor-1254-2	(2)	223099297	232757513	247383274	262896088	285176280	10
Aroclor-1254-3	(3)	362340991	375750797	393412880	409817176	422789620	6
Aroclor-1254-4	(4)	207964031	212728924	222445680	231289600	227332320	4
Aroclor-1254-5	(5)	302636627	313319767	329146572	343115096	345356740	6
Decachlorobiphenyl		3009418030	3125275440	3274408080	3481058080	3592269800	7
Tetrachloro-m-xylene		5157782560	5318511973	5462257400	5454366480	5168021000	3
Aroclor-1268-1	(1)	605633372	613614913	625929052	644237020	658094440	3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	555793036	560357999	571244564	587032548	581198500	571125329	2
Aroclor-1268-3	(3)	443116844	448542784	458393734	471576124	481232120	460572321	3
Aroclor-1268-4	(4)	171795401	175640587	181667170	188528320	184928840	180512064	4
Aroclor-1268-5	(5)	1182764439	1191499568	1205466938	1214359780	1189190120	1196656169	1
Decachlorobiphenyl		5296716160	5425177360	5590471540	5802552800	5997123200	5622408212	5
Tetrachloro-m-xylene		5377448880	5418716973	5531134800	5564772080	5234786600	5425371867	2

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

Instrument ID: ECD_O Date(s) Analyzed: 01/21/2025 01/22/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.91	3.81	4.01	100101000
		2	4.00	3.90	4.10	74407200
		3	4.08	3.98	4.18	208014000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.08	3.98	4.18	165122000
		2	4.57	4.47	4.67	90981600
		3	4.81	4.71	4.91	160152000
		4	4.99	4.89	5.09	88001400
		5	5.03	4.93	5.13	64818200
Aroclor-1262	500	1	6.85	6.75	6.95	534016000
		2	7.35	7.25	7.45	919466000
		3	7.64	7.54	7.74	364572000
		4	7.70	7.60	7.80	687626000
		5	8.20	8.10	8.30	302118000

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

Instrument ID: ECD_O Date(s) Analyzed: 01/21/2025 01/22/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.91	3.81	4.01	65489800
		2	4.00	3.90	4.10	49387600
		3	4.07	3.97	4.17	145160000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.07	3.97	4.17	115508000
		2	4.80	4.70	4.90	108913000
		3	4.98	4.88	5.08	59967000
		4	5.06	4.96	5.16	57262000
		5	5.23	5.13	5.33	60672000
Aroclor-1262	500	1	6.82	6.72	6.92	340358000
		2	7.32	7.22	7.42	554604000
		3	7.60	7.50	7.70	214440000
		4	7.67	7.57	7.77	391888000
		5	8.16	8.06	8.26	159461000

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

Continuing Calib Date: 01/30/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 09:19 Initial Calibration Time(s): 17:36 01:50

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.79	4.80	4.70	4.90	0.01
Aroclor-1016-2	(2)	4.81	4.81	4.71	4.91	0.00
Aroclor-1016-3	(3)	4.87	4.87	4.77	4.97	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.25	5.25	5.15	5.35	0.00
Aroclor-1260-1	(1)	6.29	6.29	6.19	6.39	0.00
Aroclor-1260-2	(2)	6.48	6.48	6.38	6.58	0.00
Aroclor-1260-3	(3)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-4	(4)	7.11	7.11	7.01	7.21	0.00
Aroclor-1260-5	(5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene		3.70	3.70	3.60	3.80	0.00
Decachlorobiphenyl		8.76	8.76	8.66	8.86	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

Continuing Calib Date: 01/30/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 09:19 Initial Calibration Time(s): 17:36 01:50

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	4.78	4.80	4.70	4.90	0.02
Aroclor-1016-2	(2)	4.80	4.82	4.72	4.92	0.02
Aroclor-1016-3	(3)	4.97	5.00	4.90	5.10	0.03
Aroclor-1016-4	(4)	5.01	5.04	4.94	5.14	0.03
Aroclor-1016-5	(5)	5.23	5.25	5.15	5.35	0.02
Aroclor-1260-1	(1)	6.26	6.29	6.19	6.39	0.03
Aroclor-1260-2	(2)	6.45	6.47	6.37	6.57	0.02
Aroclor-1260-3	(3)	6.60	6.63	6.53	6.73	0.03
Aroclor-1260-4	(4)	7.07	7.10	7.00	7.20	0.03
Aroclor-1260-5	(5)	7.32	7.34	7.24	7.44	0.02
Tetrachloro-m-xylene		3.69	3.72	3.62	3.82	0.03
Decachlorobiphenyl		8.71	8.73	8.63	8.83	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL01 Date Analyzed: 01/30/2025

Lab Sample No.: AR1660CCC500 Data File : PO109273.D Time Analyzed: 09:19

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.793	4.695	4.895	516.420	500.000	3.3
Aroclor-1016-2	4.813	4.714	4.914	515.040	500.000	3.0
Aroclor-1016-3	4.868	4.770	4.970	509.030	500.000	1.8
Aroclor-1016-4	4.989	4.891	5.091	513.030	500.000	2.6
Aroclor-1016-5	5.247	5.149	5.349	506.600	500.000	1.3
Aroclor-1260-1	6.290	6.190	6.390	494.930	500.000	-1.0
Aroclor-1260-2	6.478	6.379	6.579	490.200	500.000	-2.0
Aroclor-1260-3	6.847	6.747	6.947	494.570	500.000	-1.1
Aroclor-1260-4	7.108	7.008	7.208	496.140	500.000	-0.8
Aroclor-1260-5	7.349	7.249	7.449	487.690	500.000	-2.5
Decachlorobiphenyl	8.758	8.658	8.858	46.710	50.000	-6.6
Tetrachloro-m-xylene	3.698	3.600	3.800	51.970	50.000	3.9

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL01 Date Analyzed: 01/30/2025

Lab Sample No.: AR1660CCC500 Data File : PO109273.D Time Analyzed: 09:19

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.777	4.703	4.903	492.070	500.000	-1.6
Aroclor-1016-2	4.797	4.722	4.922	511.060	500.000	2.2
Aroclor-1016-3	4.973	4.898	5.098	508.430	500.000	1.7
Aroclor-1016-4	5.014	4.940	5.140	486.710	500.000	-2.7
Aroclor-1016-5	5.227	5.153	5.353	507.060	500.000	1.4
Aroclor-1260-1	6.261	6.186	6.386	498.420	500.000	-0.3
Aroclor-1260-2	6.449	6.373	6.573	495.270	500.000	-0.9
Aroclor-1260-3	6.602	6.527	6.727	492.250	500.000	-1.6
Aroclor-1260-4	7.074	6.999	7.199	492.160	500.000	-1.6
Aroclor-1260-5	7.315	7.239	7.439	500.950	500.000	0.2
Decachlorobiphenyl	8.708	8.633	8.833	45.830	50.000	-8.3
Tetrachloro-m-xylene	3.693	3.618	3.818	53.320	50.000	6.6

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

Continuing Calib Date: 01/30/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 17:19 Initial Calibration Time(s): 17:36 01:50

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.79	4.80	4.70	4.90	0.01
Aroclor-1016-2	(2)	4.81	4.81	4.71	4.91	0.00
Aroclor-1016-3	(3)	4.87	4.87	4.77	4.97	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.25	5.25	5.15	5.35	0.00
Aroclor-1260-1	(1)	6.29	6.29	6.19	6.39	0.00
Aroclor-1260-2	(2)	6.48	6.48	6.38	6.58	0.00
Aroclor-1260-3	(3)	6.85	6.85	6.75	6.95	0.01
Aroclor-1260-4	(4)	7.11	7.11	7.01	7.21	0.00
Aroclor-1260-5	(5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene		3.70	3.70	3.60	3.80	0.00
Decachlorobiphenyl		8.76	8.76	8.66	8.86	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

Continuing Calib Date: 01/30/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 17:19 Initial Calibration Time(s): 17:36 01:50

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.78	4.80	4.70	4.90	0.02
Aroclor-1016-2	(2)	4.80	4.82	4.72	4.92	0.02
Aroclor-1016-3	(3)	4.97	5.00	4.90	5.10	0.03
Aroclor-1016-4	(4)	5.02	5.04	4.94	5.14	0.03
Aroclor-1016-5	(5)	5.23	5.25	5.15	5.35	0.02
Aroclor-1260-1	(1)	6.26	6.29	6.19	6.39	0.03
Aroclor-1260-2	(2)	6.45	6.47	6.37	6.57	0.02
Aroclor-1260-3	(3)	6.60	6.63	6.53	6.73	0.03
Aroclor-1260-4	(4)	7.08	7.10	7.00	7.20	0.03
Aroclor-1260-5	(5)	7.32	7.34	7.24	7.44	0.02
Tetrachloro-m-xylene		3.70	3.72	3.62	3.82	0.03
Decachlorobiphenyl		8.71	8.73	8.63	8.83	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL02 Date Analyzed: 01/30/2025

Lab Sample No.: AR1660CCC500 Data File : PO109288.D Time Analyzed: 17:19

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.792	4.695	4.895	497.330	500.000	-0.5
Aroclor-1016-2	4.812	4.714	4.914	492.970	500.000	-1.4
Aroclor-1016-3	4.868	4.770	4.970	487.850	500.000	-2.4
Aroclor-1016-4	4.989	4.891	5.091	489.660	500.000	-2.1
Aroclor-1016-5	5.246	5.149	5.349	491.810	500.000	-1.6
Aroclor-1260-1	6.289	6.190	6.390	442.630	500.000	-11.5
Aroclor-1260-2	6.477	6.379	6.579	440.620	500.000	-11.9
Aroclor-1260-3	6.845	6.747	6.947	439.260	500.000	-12.1
Aroclor-1260-4	7.106	7.008	7.208	420.790	500.000	-15.8
Aroclor-1260-5	7.347	7.249	7.449	404.900	500.000	-19.0
Decachlorobiphenyl	8.756	8.658	8.858	38.970	50.000	-22.1
Tetrachloro-m-xylene	3.698	3.600	3.800	49.370	50.000	-1.3

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL02 Date Analyzed: 01/30/2025

Lab Sample No.: AR1660CCC500 Data File : PO109288.D Time Analyzed: 17:19

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.778	4.703	4.903	521.430	500.000	4.3
Aroclor-1016-2	4.798	4.722	4.922	526.420	500.000	5.3
Aroclor-1016-3	4.974	4.898	5.098	511.150	500.000	2.2
Aroclor-1016-4	5.015	4.940	5.140	493.930	500.000	-1.2
Aroclor-1016-5	5.229	5.153	5.353	520.120	500.000	4.0
Aroclor-1260-1	6.262	6.186	6.386	473.510	500.000	-5.3
Aroclor-1260-2	6.449	6.373	6.573	461.500	500.000	-7.7
Aroclor-1260-3	6.604	6.527	6.727	456.810	500.000	-8.6
Aroclor-1260-4	7.075	6.999	7.199	439.710	500.000	-12.1
Aroclor-1260-5	7.315	7.239	7.439	442.370	500.000	-11.5
Decachlorobiphenyl	8.708	8.633	8.833	42.440	50.000	-15.1
Tetrachloro-m-xylene	3.695	3.618	3.818	53.020	50.000	6.0

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

Continuing Calib Date: 01/30/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 22:32 Initial Calibration Time(s): 17:36 01:50

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.79	4.80	4.70	4.90	0.01
Aroclor-1016-2	(2)	4.81	4.81	4.71	4.91	0.00
Aroclor-1016-3	(3)	4.87	4.87	4.77	4.97	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.25	5.25	5.15	5.35	0.00
Aroclor-1260-1	(1)	6.29	6.29	6.19	6.39	0.00
Aroclor-1260-2	(2)	6.48	6.48	6.38	6.58	0.00
Aroclor-1260-3	(3)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-4	(4)	7.11	7.11	7.01	7.21	0.00
Aroclor-1260-5	(5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene		3.70	3.70	3.60	3.80	0.00
Decachlorobiphenyl		8.76	8.76	8.66	8.86	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

Continuing Calib Date: 01/30/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 22:32 Initial Calibration Time(s): 17:36 01:50

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.78	4.80	4.70	4.90	0.02
Aroclor-1016-2	(2)	4.80	4.82	4.72	4.92	0.02
Aroclor-1016-3	(3)	4.97	5.00	4.90	5.10	0.03
Aroclor-1016-4	(4)	5.02	5.04	4.94	5.14	0.02
Aroclor-1016-5	(5)	5.23	5.25	5.15	5.35	0.02
Aroclor-1260-1	(1)	6.26	6.29	6.19	6.39	0.03
Aroclor-1260-2	(2)	6.45	6.47	6.37	6.57	0.02
Aroclor-1260-3	(3)	6.60	6.63	6.53	6.73	0.03
Aroclor-1260-4	(4)	7.08	7.10	7.00	7.20	0.03
Aroclor-1260-5	(5)	7.32	7.34	7.24	7.44	0.02
Tetrachloro-m-xylene		3.70	3.72	3.62	3.82	0.02
Decachlorobiphenyl		8.71	8.73	8.63	8.83	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL03 Date Analyzed: 01/30/2025

Lab Sample No.: AR1660CCC500 Data File : PO109302.D Time Analyzed: 22:32

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.793	4.695	4.895	490.700	500.000	-1.9
Aroclor-1016-2	4.812	4.714	4.914	492.170	500.000	-1.6
Aroclor-1016-3	4.869	4.770	4.970	483.870	500.000	-3.2
Aroclor-1016-4	4.989	4.891	5.091	488.000	500.000	-2.4
Aroclor-1016-5	5.247	5.149	5.349	496.010	500.000	-0.8
Aroclor-1260-1	6.289	6.190	6.390	430.090	500.000	-14.0
Aroclor-1260-2	6.477	6.379	6.579	440.410	500.000	-11.9
Aroclor-1260-3	6.846	6.747	6.947	433.480	500.000	-13.3
Aroclor-1260-4	7.107	7.008	7.208	394.520	500.000	-21.1
Aroclor-1260-5	7.348	7.249	7.449	381.150	500.000	-23.8
Decachlorobiphenyl	8.756	8.658	8.858	36.570	50.000	-26.9
Tetrachloro-m-xylene	3.698	3.600	3.800	48.880	50.000	-2.2

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1216 SAS No.: Q1216 SDG NO.: Q1216

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL03 Date Analyzed: 01/30/2025

Lab Sample No.: AR1660CCC500 Data File : PO109302.D Time Analyzed: 22:32

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.779	4.703	4.903	523.440	500.000	4.7
Aroclor-1016-2	4.798	4.722	4.922	529.350	500.000	5.9
Aroclor-1016-3	4.974	4.898	5.098	506.610	500.000	1.3
Aroclor-1016-4	5.016	4.940	5.140	485.490	500.000	-2.9
Aroclor-1016-5	5.229	5.153	5.353	525.720	500.000	5.1
Aroclor-1260-1	6.263	6.186	6.386	466.410	500.000	-6.7
Aroclor-1260-2	6.450	6.373	6.573	457.160	500.000	-8.6
Aroclor-1260-3	6.604	6.527	6.727	451.860	500.000	-9.6
Aroclor-1260-4	7.075	6.999	7.199	440.120	500.000	-12.0
Aroclor-1260-5	7.315	7.239	7.439	436.020	500.000	-12.8
Decachlorobiphenyl	8.708	8.633	8.833	40.200	50.000	-19.6
Tetrachloro-m-xylene	3.696	3.618	3.818	52.770	50.000	5.5

Analytical Sequence

Client: RU2 Engineering, LLC	SDG No.: Q1216
Project: NYCDDC SANTWOBR Brooklyn Bridge BI	Instrument ID: ECD_O
GC Column: ZB-MR1	ID: 0.32 (mm) Inst. Calib. Date(s): 01/21/2025 01/21/2025

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	01/21/2025	17:18	PO108981.D	8.76	3.70
AR1660ICC1000	AR1660ICC1000	01/21/2025	17:36	PO108982.D	8.76	3.70
AR1660ICC750	AR1660ICC750	01/21/2025	17:54	PO108983.D	8.76	3.70
AR1660ICC500	AR1660ICC500	01/21/2025	18:13	PO108984.D	8.76	3.70
AR1660ICC250	AR1660ICC250	01/21/2025	18:31	PO108985.D	8.76	3.70
AR1660ICC050	AR1660ICC050	01/21/2025	18:49	PO108986.D	8.76	3.70
AR1221ICC500	AR1221ICC500	01/21/2025	19:07	PO108987.D	8.76	3.70
AR1232ICC500	AR1232ICC500	01/21/2025	19:26	PO108988.D	8.76	3.70
AR1242ICC1000	AR1242ICC1000	01/21/2025	19:44	PO108989.D	8.76	3.70
AR1242ICC750	AR1242ICC750	01/21/2025	20:02	PO108990.D	8.76	3.70
AR1242ICC500	AR1242ICC500	01/21/2025	20:21	PO108991.D	8.76	3.70
AR1242ICC250	AR1242ICC250	01/21/2025	20:39	PO108992.D	8.76	3.70
AR1242ICC050	AR1242ICC050	01/21/2025	20:57	PO108993.D	8.76	3.70
AR1248ICC1000	AR1248ICC1000	01/21/2025	21:16	PO108994.D	8.76	3.70
AR1248ICC750	AR1248ICC750	01/21/2025	21:34	PO108995.D	8.76	3.70
AR1248ICC500	AR1248ICC500	01/21/2025	21:52	PO108996.D	8.76	3.70
AR1248ICC250	AR1248ICC250	01/21/2025	22:10	PO108997.D	8.76	3.70
AR1248ICC050	AR1248ICC050	01/21/2025	22:29	PO108998.D	8.76	3.70
AR1254ICC1000	AR1254ICC1000	01/21/2025	22:47	PO108999.D	8.76	3.70
AR1254ICC750	AR1254ICC750	01/21/2025	23:05	PO109000.D	8.76	3.70
AR1254ICC500	AR1254ICC500	01/21/2025	23:23	PO109001.D	8.76	3.70
AR1254ICC250	AR1254ICC250	01/21/2025	23:42	PO109002.D	8.76	3.70
AR1254ICC050	AR1254ICC050	01/22/2025	00:00	PO109003.D	8.76	3.70
AR1262ICC500	AR1262ICC500	01/22/2025	00:18	PO109004.D	8.76	3.70
AR1268ICC1000	AR1268ICC1000	01/22/2025	00:37	PO109005.D	8.76	3.70
AR1268ICC750	AR1268ICC750	01/22/2025	00:55	PO109006.D	8.76	3.70
AR1268ICC500	AR1268ICC500	01/22/2025	01:13	PO109007.D	8.76	3.70
AR1268ICC250	AR1268ICC250	01/22/2025	01:31	PO109008.D	8.76	3.70
AR1268ICC050	AR1268ICC050	01/22/2025	01:50	PO109009.D	8.76	3.70
AR1660CCC500	AR1660CCC500	01/30/2025	09:19	PO109273.D	8.76	3.70
IBLK	IBLK	01/30/2025	10:32	PO109277.D	8.76	3.70
PB166358BL	PB166358BL	01/30/2025	12:30	PO109278.D	8.76	3.70
PB166358BS	PB166358BS	01/30/2025	12:48	PO109279.D	8.76	3.70
JPP-18.1-012825	Q1216-03	01/30/2025	13:43	PO109282.D	8.76	3.70
JPP-21.1-012825	Q1216-07	01/30/2025	14:01	PO109283.D	8.76	3.70
JPP-21.2-012825	Q1216-11	01/30/2025	14:20	PO109284.D	8.76	3.70
JPP-26.1-012825	Q1216-15	01/30/2025	14:38	PO109285.D	8.76	3.70
JPP-26.2-012825	Q1216-19	01/30/2025	14:56	PO109286.D	8.76	3.70
AR1660CCC500	AR1660CCC500	01/30/2025	17:19	PO109288.D	8.76	3.70
IBLK	IBLK	01/30/2025	18:32	PO109292.D	8.76	3.70
TR-06-01292025MS	Q1220-01MS	01/30/2025	19:55	PO109295.D	8.76	3.70
TR-06-01292025MSD	Q1220-01MSD	01/30/2025	20:14	PO109296.D	8.76	3.70

Analytical Sequence

AR1660CCC500	AR1660CCC500	01/30/2025	22:32	PO109302.D	8.76	3.70
I.BLK	I.BLK	01/30/2025	23:45	PO109306.D	8.76	3.70

Analytical Sequence

Client: RU2 Engineering, LLC	SDG No.: Q1216
Project: NYCDDC SANTWOBR Brooklyn Bridge BI	Instrument ID: ECD_O
GC Column: ZB-MR2	ID: 0.32 (mm) Inst. Calib. Date(s): 01/21/2025 01/21/2025

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	01/21/2025	17:18	PO108981.D	8.71	3.70
AR1660ICC1000	AR1660ICC1000	01/21/2025	17:36	PO108982.D	8.71	3.70
AR1660ICC750	AR1660ICC750	01/21/2025	17:54	PO108983.D	8.71	3.70
AR1660ICC500	AR1660ICC500	01/21/2025	18:13	PO108984.D	8.73	3.72
AR1660ICC250	AR1660ICC250	01/21/2025	18:31	PO108985.D	8.71	3.70
AR1660ICC050	AR1660ICC050	01/21/2025	18:49	PO108986.D	8.71	3.70
AR1221ICC500	AR1221ICC500	01/21/2025	19:07	PO108987.D	8.71	3.70
AR1232ICC500	AR1232ICC500	01/21/2025	19:26	PO108988.D	8.71	3.70
AR1242ICC1000	AR1242ICC1000	01/21/2025	19:44	PO108989.D	8.71	3.70
AR1242ICC750	AR1242ICC750	01/21/2025	20:02	PO108990.D	8.71	3.70
AR1242ICC500	AR1242ICC500	01/21/2025	20:21	PO108991.D	8.71	3.70
AR1242ICC250	AR1242ICC250	01/21/2025	20:39	PO108992.D	8.71	3.70
AR1242ICC050	AR1242ICC050	01/21/2025	20:57	PO108993.D	8.71	3.70
AR1248ICC1000	AR1248ICC1000	01/21/2025	21:16	PO108994.D	8.71	3.70
AR1248ICC750	AR1248ICC750	01/21/2025	21:34	PO108995.D	8.71	3.70
AR1248ICC500	AR1248ICC500	01/21/2025	21:52	PO108996.D	8.71	3.70
AR1248ICC250	AR1248ICC250	01/21/2025	22:10	PO108997.D	8.71	3.70
AR1248ICC050	AR1248ICC050	01/21/2025	22:29	PO108998.D	8.71	3.70
AR1254ICC1000	AR1254ICC1000	01/21/2025	22:47	PO108999.D	8.71	3.70
AR1254ICC750	AR1254ICC750	01/21/2025	23:05	PO109000.D	8.71	3.70
AR1254ICC500	AR1254ICC500	01/21/2025	23:23	PO109001.D	8.71	3.70
AR1254ICC250	AR1254ICC250	01/21/2025	23:42	PO109002.D	8.71	3.70
AR1254ICC050	AR1254ICC050	01/22/2025	00:00	PO109003.D	8.71	3.70
AR1262ICC500	AR1262ICC500	01/22/2025	00:18	PO109004.D	8.71	3.70
AR1268ICC1000	AR1268ICC1000	01/22/2025	00:37	PO109005.D	8.71	3.70
AR1268ICC750	AR1268ICC750	01/22/2025	00:55	PO109006.D	8.71	3.70
AR1268ICC500	AR1268ICC500	01/22/2025	01:13	PO109007.D	8.71	3.70
AR1268ICC250	AR1268ICC250	01/22/2025	01:31	PO109008.D	8.71	3.70
AR1268ICC050	AR1268ICC050	01/22/2025	01:50	PO109009.D	8.71	3.70
AR1660CCC500	AR1660CCC500	01/30/2025	09:19	PO109273.D	8.71	3.69
IBLK	IBLK	01/30/2025	10:32	PO109277.D	8.71	3.70
PB166358BL	PB166358BL	01/30/2025	12:30	PO109278.D	8.71	3.69
PB166358BS	PB166358BS	01/30/2025	12:48	PO109279.D	8.71	3.69
JPP-18.1-012825	Q1216-03	01/30/2025	13:43	PO109282.D	8.71	3.69
JPP-21.1-012825	Q1216-07	01/30/2025	14:01	PO109283.D	8.71	3.70
JPP-21.2-012825	Q1216-11	01/30/2025	14:20	PO109284.D	8.71	3.70
JPP-26.1-012825	Q1216-15	01/30/2025	14:38	PO109285.D	8.71	3.69
JPP-26.2-012825	Q1216-19	01/30/2025	14:56	PO109286.D	8.71	3.69
AR1660CCC500	AR1660CCC500	01/30/2025	17:19	PO109288.D	8.71	3.70
IBLK	IBLK	01/30/2025	18:32	PO109292.D	8.71	3.70
TR-06-01292025MS	Q1220-01MS	01/30/2025	19:55	PO109295.D	8.71	3.70
TR-06-01292025MSD	Q1220-01MSD	01/30/2025	20:14	PO109296.D	8.71	3.70

Analytical Sequence

AR1660CCC500	AR1660CCC500	01/30/2025	22:32	PO109302.D	8.71	3.70
I.BLK	I.BLK	01/30/2025	23:45	PO109306.D	8.71	3.70



QC SAMPLE DATA

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166358BL	SDG No.:	Q1216
Lab Sample ID:	PB166358BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109278.D	1	01/30/25 08:30	01/30/25 12:30	PB166358

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	17.0	U	3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	17.0	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	17.0	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	17.0	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	17.0	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	17.0	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	17.0	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	17.0	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	17.0	U	2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.8		32 - 144	124%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.6		32 - 175	118%	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:	RU2 Engineering, LLC	Date Collected:	01/21/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/21/25
Client Sample ID:	PIBLK-PO108981.D	SDG No.:	Q1216
Lab Sample ID:	I.BLK-PO108981.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108981.D	1		01/21/25	PO012125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.6		60 - 140	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.6		60 - 140	108%	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:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	PIBLK-PO109277.D	SDG No.:	Q1216
Lab Sample ID:	I.BLK-PO109277.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109277.D	1		01/30/25	PO013025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.9		60 - 140	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.6		60 - 140	108%	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:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	PIBLK-PO109292.D	SDG No.:	Q1216
Lab Sample ID:	I.BLK-PO109292.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109292.D	1		01/30/25	PO013025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.7		60 - 140	113%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.9		60 - 140	94%	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:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	PIBLK-PO109306.D	SDG No.:	Q1216
Lab Sample ID:	I.BLK-PO109306.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109306.D	1		01/30/25	PO013025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.9		60 - 140	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.3		60 - 140	92%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166358BS	SDG No.:	Q1216
Lab Sample ID:	PB166358BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109279.D	1	01/30/25 08:30	01/30/25 12:48	PB166358

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	154		3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	17.0	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	17.0	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	17.0	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	17.0	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	17.0	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	17.0	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	17.0	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	147		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		32 - 144	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.6		32 - 175	113%	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:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	TR-06-01292025MS	SDG No.:	Q1216
Lab Sample ID:	Q1220-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	93.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109295.D	1	01/30/25 08:30	01/30/25 19:55	PB166358

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	135		3.60	18.2	ug/kg
11104-28-2	Aroclor-1221	18.2	U	6.90	18.2	ug/kg
11141-16-5	Aroclor-1232	18.2	U	3.60	18.2	ug/kg
53469-21-9	Aroclor-1242	18.2	U	3.60	18.2	ug/kg
12672-29-6	Aroclor-1248	18.2	U	8.40	18.2	ug/kg
11097-69-1	Aroclor-1254	18.2	U	2.90	18.2	ug/kg
37324-23-5	Aroclor-1262	18.2	U	4.90	18.2	ug/kg
11100-14-4	Aroclor-1268	18.2	U	3.70	18.2	ug/kg
11096-82-5	Aroclor-1260	124		3.10	18.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.3		32 - 144	81%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.0		32 - 175	85%	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:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	TR-06-01292025MSD	SDG No.:	Q1216
Lab Sample ID:	Q1220-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	93.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109296.D	1	01/30/25 08:30	01/30/25 20:14	PB166358

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	131		3.60	18.2	ug/kg
11104-28-2	Aroclor-1221	18.2	U	6.90	18.2	ug/kg
11141-16-5	Aroclor-1232	18.2	U	3.60	18.2	ug/kg
53469-21-9	Aroclor-1242	18.2	U	3.60	18.2	ug/kg
12672-29-6	Aroclor-1248	18.2	U	8.50	18.2	ug/kg
11097-69-1	Aroclor-1254	18.2	U	2.90	18.2	ug/kg
37324-23-5	Aroclor-1262	18.2	U	4.90	18.2	ug/kg
11100-14-4	Aroclor-1268	18.2	U	3.70	18.2	ug/kg
11096-82-5	Aroclor-1260	120		3.10	18.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.3		32 - 144	82%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.3		32 - 175	82%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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