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

LAB CHRONICLE

OrderID:	Q1242	**OrderDate:**	1/30/2025 3:02:00 PM
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
Q1242-01	**JPP-6.2-013025**	**SOIL**			**01/30/25**			**01/30/25**
			Diesel Range Organics	8015D		01/31/25	01/31/25	
			Gasoline Range Organics	8015D			01/31/25	
Q1242-03	**JPP-6.2-013025**	**SOIL**			**01/30/25**			**01/30/25**
			PCB	8082A		01/31/25	02/01/25	
			Pesticide-TCL	8081B		01/31/25	01/31/25	
Q1242-03RE	**JPP-6.2-013025RE**	**SOIL**			**01/30/25**			**01/30/25**
			PCB	8082A		01/31/25	02/04/25	
Q1242-04	**JPP-6.2-013025**	**TCLP**			**01/30/25**			**01/30/25**
			TCLP Herbicide	8151A		02/03/25	02/03/25	
			TCLP Pesticide	8081B		02/03/25	02/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1242 **Order ID:** Q1242

Client: RU2 Engineering, LLC **Project ID:** NYCDDC SANTWOBR Brooklyn Bri

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : JPP-6.2-013025								
Q1242-03	JPP-6.2-013025	SOIL	Endrin	0.25	J	0.20	2.10	ug/kg
Q1242-03	JPP-6.2-013025	SOIL	4,4-DDT	0.67	J	0.21	2.10	ug/kg
Q1242-03	JPP-6.2-013025	SOIL	alpha-Chlordane	0.56	JP	0.21	2.10	ug/kg
			Total Concentration:	**1.480**				

SAMPLE DATA

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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:	JPP-6.2-013025	SDG No.:	Q1242
Lab Sample ID:	Q1242-03	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	81.2 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093967.D	1	01/31/25 08:15	01/31/25 22:04	PB166413

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	2.10	U	0.22	2.10	ug/kg
319-85-7	beta-BHC	2.10	U	0.60	2.10	ug/kg
319-86-8	delta-BHC	2.10	U	0.58	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	2.10	U	0.23	2.10	ug/kg
76-44-8	Heptachlor	2.10	U	0.21	2.10	ug/kg
309-00-2	Aldrin	2.10	U	0.17	2.10	ug/kg
1024-57-3	Heptachlor epoxide	2.10	U	0.28	2.10	ug/kg
959-98-8	Endosulfan I	2.10	U	0.21	2.10	ug/kg
60-57-1	Dieldrin	2.10	U	0.18	2.10	ug/kg
72-55-9	4,4-DDE	2.10	U	0.16	2.10	ug/kg
72-20-8	Endrin	0.25	J	0.20	2.10	ug/kg
33213-65-9	Endosulfan II	2.10	U	0.37	2.10	ug/kg
72-54-8	4,4-DDD	2.10	U	0.23	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	2.10	U	0.16	2.10	ug/kg
50-29-3	4,4-DDT	0.67	J	0.21	2.10	ug/kg
72-43-5	Methoxychlor	2.10	U	0.47	2.10	ug/kg
53494-70-5	Endrin ketone	2.10	U	0.27	2.10	ug/kg
7421-93-4	Endrin aldehyde	2.10	U	0.48	2.10	ug/kg
5103-71-9	alpha-Chlordane	0.56	JP	0.21	2.10	ug/kg
5103-74-2	gamma-Chlordane	2.10	U	0.23	2.10	ug/kg
8001-35-2	Toxaphene	40.6	U	6.40	40.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.9		10 - 148	70%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.1		10 - 159	81%	SPK: 20

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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:	JPP-6.2-013025	SDG No.:	Q1242
Lab Sample ID:	Q1242-03	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	81.2 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093967.D	1	01/31/25 08:15	01/31/25 22:04	PB166413

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1242

Client: RU2 Engineering, LLC

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL093725.D	PIBLK-PL093725.D	Decachlorobiphenyl	1	20	22.1	111		43	140
		Tetrachloro-m-xylene	1	20	20.8	104		77	126
		Decachlorobiphenyl	2	20	21.9	109		43	140
		Tetrachloro-m-xylene	2	20	20.5	103		77	126
I.BLK-PL093928.D	PIBLK-PL093928.D	Decachlorobiphenyl	1	20	20.6	103		43	140
		Tetrachloro-m-xylene	1	20	21.1	106		77	126
		Decachlorobiphenyl	2	20	20.4	102		43	140
		Tetrachloro-m-xylene	2	20	19.8	99		77	126
PB166413BL	PB166413BL	Decachlorobiphenyl	1	20	24.6	123		10	148
		Tetrachloro-m-xylene	1	20	23.8	119		10	159
		Decachlorobiphenyl	2	20	24.1	121		10	148
		Tetrachloro-m-xylene	2	20	22.1	110		10	159
PB166413BS	PB166413BS	Decachlorobiphenyl	1	20	21.2	106		10	148
		Tetrachloro-m-xylene	1	20	20.0	100		10	159
		Decachlorobiphenyl	2	20	21.7	109		10	148
		Tetrachloro-m-xylene	2	20	18.6	93		10	159
I.BLK-PL093942.D	PIBLK-PL093942.D	Decachlorobiphenyl	1	20	22.6	113		43	140
		Tetrachloro-m-xylene	1	20	21.7	109		77	126
		Decachlorobiphenyl	2	20	22.3	111		43	140
		Tetrachloro-m-xylene	2	20	20.1	101		77	126
I.BLK-PL093957.D	PIBLK-PL093957.D	Decachlorobiphenyl	1	20	20.4	102		43	140
		Tetrachloro-m-xylene	1	20	22.0	110		77	126
		Decachlorobiphenyl	2	20	17.1	86		43	140
		Tetrachloro-m-xylene	2	20	20.8	104		77	126
Q1239-10MS	357MS	Decachlorobiphenyl	1	20	14.9	75		10	148
		Tetrachloro-m-xylene	1	20	19.1	95		10	159
		Decachlorobiphenyl	2	20	13.7	69		10	148
		Tetrachloro-m-xylene	2	20	18.0	90		10	159
Q1239-10MSD	357MSD	Decachlorobiphenyl	1	20	15.4	77		10	148
		Tetrachloro-m-xylene	1	20	18.7	93		10	159
		Decachlorobiphenyl	2	20	13.6	68		10	148
		Tetrachloro-m-xylene	2	20	17.9	90		10	159
Q1242-03	JPP-6.2-013025	Decachlorobiphenyl	1	20	13.9	70		10	148
		Tetrachloro-m-xylene	1	20	14.8	74		10	159
		Decachlorobiphenyl	2	20	10.8	54		10	148
		Tetrachloro-m-xylene	2	20	16.1	81		10	159
I.BLK-PL093970.D	PIBLK-PL093970.D	Decachlorobiphenyl	1	20	19.3	96		43	140
		Tetrachloro-m-xylene	1	20	21.3	107		77	126
		Decachlorobiphenyl	2	20	16.1	81		43	140
		Tetrachloro-m-xylene	2	20	20.0	100		77	126

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1242

Client: RU2 Engineering, LLC

Analytical Method: 8081B **DataFile :** PL093960.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**357MS**											
Q1239-10MS	alpha-BHC	19.63	0	19.6	ug/kg	100				60	144	
	beta-BHC	19.63	0	19.9	ug/kg	101				54	143	
	delta-BHC	19.63	0	19.1	ug/kg	97				47	144	
	gamma-BHC (Lindane)	19.63	0	19.2	ug/kg	98				61	140	
	Heptachlor	19.63	0	19.1	ug/kg	97				63	135	
	Aldrin	19.63	0	19.3	ug/kg	98				49	139	
	Heptachlor epoxide	19.63	0	20.0	ug/kg	102				32	180	
	Endosulfan I	19.63	0	19.0	ug/kg	97				56	142	
	Dieldrin	19.63	0	20.5	ug/kg	104				47	161	
	4,4'-DDE	19.63	0	21.4	ug/kg	109				55	136	
	Endrin	19.63	0	20.2	ug/kg	103				57	139	
	Endosulfan II	19.63	0	19.5	ug/kg	99				40	163	
	4,4'-DDD	19.63	0.28	22.0	ug/kg	111				37	192	
	Endosulfan sulfate	19.63	0	18.4	ug/kg	94				62	139	
	4,4'-DDT	19.63	0	18.9	ug/kg	96				51	146	
	Methoxychlor	19.63	0	17.5	ug/kg	89				54	136	
	Endrin ketone	19.63	0	17.5	ug/kg	89				60	129	
	Endrin aldehyde	19.63	0	13.7	ug/kg	70				59	132	
	alpha-Chlordane	19.63	0	20.4	ug/kg	104				30	192	
	gamma-Chlordane	19.63	0	21.0	ug/kg	107				44	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1242

Client: RU2 Engineering, LLC

Analytical Method: 8081B **DataFile :** PL093961.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**357MSD**											
Q1239-10MSD	alpha-BHC	19.65	0	19.8	ug/kg	101		1		60	144	20
	beta-BHC	19.65	0	20.1	ug/kg	102		1		54	143	20
	delta-BHC	19.65	0	20.0	ug/kg	102		5		47	144	20
	gamma-BHC (Lindane)	19.65	0	19.4	ug/kg	99		1		61	140	20
	Heptachlor	19.65	0	20.3	ug/kg	103		6		63	135	20
	Aldrin	19.65	0	19.5	ug/kg	99		1		49	139	20
	Heptachlor epoxide	19.65	0	20.0	ug/kg	102		0		32	180	20
	Endosulfan I	19.65	0	19.5	ug/kg	99		2		56	142	20
	Dieldrin	19.65	0	20.6	ug/kg	105		1		47	161	20
	4,4'-DDE	19.65	0	21.4	ug/kg	109		0		55	136	20
	Endrin	19.65	0	20.9	ug/kg	106		3		57	139	20
	Endosulfan II	19.65	0	20.1	ug/kg	102		3		40	163	20
	4,4'-DDD	19.65	0.28	22.2	ug/kg	112		1		37	192	20
	Endosulfan sulfate	19.65	0	19.7	ug/kg	100		6		62	139	20
	4,4'-DDT	19.65	0	20.5	ug/kg	104		8		51	146	20
	Methoxychlor	19.65	0	19.8	ug/kg	101		13		54	136	20
	Endrin ketone	19.65	0	18.8	ug/kg	96		8		60	129	20
	Endrin aldehyde	19.65	0	18.7	ug/kg	95		30	*	59	132	20
	alpha-Chlordane	19.65	0	20.6	ug/kg	105		1		30	192	20
	gamma-Chlordane	19.65	0	20.9	ug/kg	106		1		44	175	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1242

Client: RU2 Engineering, LLC

Analytical Method: 8081B **Datafile :** PL093941.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166413BS	alpha-BHC	16.66	14.9	ug/kg	89				84	123	
	beta-BHC	16.66	15.1	ug/kg	91				82	123	
	delta-BHC	16.66	15.1	ug/kg	91				83	126	
	gamma-BHC (Lindane)	16.66	14.8	ug/kg	89				83	125	
	Heptachlor	16.66	16.0	ug/kg	96				83	122	
	Aldrin	16.66	15.0	ug/kg	90				82	124	
	Heptachlor epoxide	16.66	15.3	ug/kg	92				83	120	
	Endosulfan I	16.66	15.4	ug/kg	92				81	124	
	Dieldrin	16.66	15.5	ug/kg	93				85	121	
	4,4'-DDE	16.66	16.5	ug/kg	99				81	123	
	Endrin	16.66	16.8	ug/kg	101				76	130	
	Endosulfan II	16.66	16.2	ug/kg	97				80	125	
	4,4'-DDD	16.66	17.1	ug/kg	103				80	131	
	Endosulfan sulfate	16.66	16.2	ug/kg	97				81	122	
	4,4'-DDT	16.66	17.5	ug/kg	105				70	129	
	Methoxychlor	16.66	17.2	ug/kg	103				60	119	
	Endrin ketone	16.66	15.7	ug/kg	94				77	132	
	Endrin aldehyde	16.66	15.3	ug/kg	92				79	124	
	alpha-Chlordane	16.66	15.7	ug/kg	94				84	120	
	gamma-Chlordane	16.66	15.7	ug/kg	94				83	122	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166413BL

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1242 SAS No.: Q1242 SDG NO.: Q1242

Lab Sample ID: PB166413BL Lab File ID: PL093940.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 01/31/2025

Date Analyzed (1): 01/31/2025 Date Analyzed (2): 01/31/2025

Time Analyzed (1): 14:28 Time Analyzed (2): 14:28

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

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
PB166413BS	PB166413BS	PL093941.D	01/31/2025	01/31/2025
357MS	Q1239-10MS	PL093960.D	01/31/2025	01/31/2025
357MSD	Q1239-10MSD	PL093961.D	01/31/2025	01/31/2025
JPP-6.2-013025	Q1242-03	PL093967.D	01/31/2025	01/31/2025

COMMENTS:

QC SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166413BL	SDG No.:	Q1242
Lab Sample ID:	PB166413BL	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093940.D	1	01/31/25 08:15	01/31/25 14:28	PB166413

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	1.70	U	0.18	1.70	ug/kg
319-85-7	beta-BHC	1.70	U	0.49	1.70	ug/kg
319-86-8	delta-BHC	1.70	U	0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	1.70	U	0.19	1.70	ug/kg
76-44-8	Heptachlor	1.70	U	0.17	1.70	ug/kg
309-00-2	Aldrin	1.70	U	0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	1.70	U	0.23	1.70	ug/kg
959-98-8	Endosulfan I	1.70	U	0.17	1.70	ug/kg
60-57-1	Dieldrin	1.70	U	0.15	1.70	ug/kg
72-55-9	4,4-DDE	1.70	U	0.13	1.70	ug/kg
72-20-8	Endrin	1.70	U	0.16	1.70	ug/kg
33213-65-9	Endosulfan II	1.70	U	0.30	1.70	ug/kg
72-54-8	4,4-DDD	1.70	U	0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	1.70	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	1.70	U	0.17	1.70	ug/kg
72-43-5	Methoxychlor	1.70	U	0.38	1.70	ug/kg
53494-70-5	Endrin ketone	1.70	U	0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	1.70	U	0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	1.70	U	0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	1.70	U	0.19	1.70	ug/kg
8001-35-2	Toxaphene	33.0	U	5.20	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.6		10 - 148	123%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.8		10 - 159	119%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166413BL	SDG No.:	Q1242
Lab Sample ID:	PB166413BL	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093940.D	1	01/31/25 08:15	01/31/25 14:28	PB166413

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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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-PL093725.D	SDG No.:	Q1242
Lab Sample ID:	I.BLK-PL093725.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093725.D	1		01/21/25	PL012125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.1		43 - 140	111%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.8		77 - 126	104%	SPK: 20

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Fax : 908 789 8922

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-PL093725.D	SDG No.:	Q1242
Lab Sample ID:	I.BLK-PL093725.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093725.D	1		01/21/25	PL012125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-PL093928.D	SDG No.:	Q1242
Lab Sample ID:	I.BLK-PL093928.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093928.D	1		01/31/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.6		43 - 140	103%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.1		77 - 126	106%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-PL093928.D	SDG No.:	Q1242
Lab Sample ID:	I.BLK-PL093928.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093928.D	1		01/31/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-PL093942.D	SDG No.:	Q1242
Lab Sample ID:	I.BLK-PL093942.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093942.D	1		01/31/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.6		43 - 140	113%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.7		77 - 126	109%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-PL093942.D	SDG No.:	Q1242
Lab Sample ID:	I.BLK-PL093942.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093942.D	1		01/31/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-PL093957.D	SDG No.:	Q1242
Lab Sample ID:	I.BLK-PL093957.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093957.D	1		01/31/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.4		43 - 140	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.0		77 - 126	110%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-PL093957.D	SDG No.:	Q1242
Lab Sample ID:	I.BLK-PL093957.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093957.D	1		01/31/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-PL093970.D	SDG No.:	Q1242
Lab Sample ID:	I.BLK-PL093970.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093970.D	1		01/31/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.3		43 - 140	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.3		77 - 126	107%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-PL093970.D	SDG No.:	Q1242
Lab Sample ID:	I.BLK-PL093970.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093970.D	1		01/31/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Fax : 908 789 8922

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166413BS	SDG No.:	Q1242
Lab Sample ID:	PB166413BS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093941.D	1	01/31/25 08:15	01/31/25 14:43	PB166413

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	14.9		0.18	1.70	ug/kg
319-85-7	beta-BHC	15.1		0.49	1.70	ug/kg
319-86-8	delta-BHC	15.1		0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	14.8		0.19	1.70	ug/kg
76-44-8	Heptachlor	16.0		0.17	1.70	ug/kg
309-00-2	Aldrin	15.0		0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	15.3		0.23	1.70	ug/kg
959-98-8	Endosulfan I	15.4		0.17	1.70	ug/kg
60-57-1	Dieldrin	15.5		0.15	1.70	ug/kg
72-55-9	4,4-DDE	16.5		0.13	1.70	ug/kg
72-20-8	Endrin	16.8		0.16	1.70	ug/kg
33213-65-9	Endosulfan II	16.2		0.30	1.70	ug/kg
72-54-8	4,4-DDD	17.1		0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	16.2		0.13	1.70	ug/kg
50-29-3	4,4-DDT	17.5		0.17	1.70	ug/kg
72-43-5	Methoxychlor	17.2		0.38	1.70	ug/kg
53494-70-5	Endrin ketone	15.7		0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	15.3		0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	15.7		0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	15.7		0.19	1.70	ug/kg
8001-35-2	Toxaphene	33.0	U	5.20	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.7		10 - 148	109%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.0		10 - 159	100%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166413BS	SDG No.:	Q1242
Lab Sample ID:	PB166413BS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093941.D	1	01/31/25 08:15	01/31/25 14:43	PB166413

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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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:	357MS	SDG No.:	Q1242
Lab Sample ID:	Q1239-10MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	84.8 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093960.D	1	01/31/25 08:15	01/31/25 20:31	PB166413

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	19.6		0.21	2.00	ug/kg
319-85-7	beta-BHC	19.9		0.58	2.00	ug/kg
319-86-8	delta-BHC	19.1		0.55	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	19.2		0.22	2.00	ug/kg
76-44-8	Heptachlor	19.1		0.20	2.00	ug/kg
309-00-2	Aldrin	19.3		0.16	2.00	ug/kg
1024-57-3	Heptachlor epoxide	20.0		0.27	2.00	ug/kg
959-98-8	Endosulfan I	19.0		0.20	2.00	ug/kg
60-57-1	Dieldrin	20.5		0.18	2.00	ug/kg
72-55-9	4,4-DDE	21.4		0.15	2.00	ug/kg
72-20-8	Endrin	20.2		0.19	2.00	ug/kg
33213-65-9	Endosulfan II	19.5		0.35	2.00	ug/kg
72-54-8	4,4-DDD	22.0		0.22	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	18.4		0.15	2.00	ug/kg
50-29-3	4,4-DDT	18.9		0.20	2.00	ug/kg
72-43-5	Methoxychlor	17.5		0.45	2.00	ug/kg
53494-70-5	Endrin ketone	17.5		0.26	2.00	ug/kg
7421-93-4	Endrin aldehyde	13.7		0.46	2.00	ug/kg
5103-71-9	alpha-Chlordane	20.4		0.20	2.00	ug/kg
5103-74-2	gamma-Chlordane	21.0		0.22	2.00	ug/kg
8001-35-2	Toxaphene	38.9	U	6.10	38.9	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.9		10 - 148	75%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		10 - 159	95%	SPK: 20

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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:	357MS	SDG No.:	Q1242
Lab Sample ID:	Q1239-10MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	84.8 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093960.D	1	01/31/25 08:15	01/31/25 20:31	PB166413

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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
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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

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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:	357MSD	SDG No.:	Q1242
Lab Sample ID:	Q1239-10MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	84.8 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093961.D	1	01/31/25 08:15	01/31/25 20:45	PB166413

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	19.8		0.21	2.00	ug/kg
319-85-7	beta-BHC	20.1		0.58	2.00	ug/kg
319-86-8	delta-BHC	20.0		0.55	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	19.4		0.22	2.00	ug/kg
76-44-8	Heptachlor	20.3		0.20	2.00	ug/kg
309-00-2	Aldrin	19.5		0.17	2.00	ug/kg
1024-57-3	Heptachlor epoxide	20.0		0.27	2.00	ug/kg
959-98-8	Endosulfan I	19.5		0.20	2.00	ug/kg
60-57-1	Dieldrin	20.6		0.18	2.00	ug/kg
72-55-9	4,4-DDE	21.4		0.15	2.00	ug/kg
72-20-8	Endrin	20.9		0.19	2.00	ug/kg
33213-65-9	Endosulfan II	20.1		0.35	2.00	ug/kg
72-54-8	4,4-DDD	22.2		0.22	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	19.7		0.15	2.00	ug/kg
50-29-3	4,4-DDT	20.5		0.20	2.00	ug/kg
72-43-5	Methoxychlor	19.8		0.45	2.00	ug/kg
53494-70-5	Endrin ketone	18.8		0.26	2.00	ug/kg
7421-93-4	Endrin aldehyde	18.7		0.46	2.00	ug/kg
5103-71-9	alpha-Chlordane	20.6		0.20	2.00	ug/kg
5103-74-2	gamma-Chlordane	20.9		0.22	2.00	ug/kg
8001-35-2	Toxaphene	38.9	U	6.20	38.9	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.4		10 - 148	77%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.7		10 - 159	93%	SPK: 20

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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:	357MSD	SDG No.:	Q1242
Lab Sample ID:	Q1239-10MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	84.8 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093961.D	1	01/31/25 08:15	01/31/25 20:45	PB166413

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Instrument ID: ECD_L **Calibration Date(s):** 01/21/2025 01/21/2025

Calibration Times: 10:57 11:51

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

LAB FILE ID: RT 100 = PL093728.D RT 075 = PL093729.D

RT 050 = PL093730.D RT 025 = PL093731.D RT 005 = PL093732.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.26	5.26	5.26	5.26	5.26	5.26	5.16	5.36
alpha-BHC	4.00	4.00	4.00	4.00	3.99	3.99	3.89	4.09
alpha-Chlordane	6.02	6.02	6.02	6.02	6.02	6.02	5.92	6.12
beta-BHC	4.53	4.53	4.53	4.53	4.53	4.53	4.43	4.63
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
delta-BHC	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Dieldrin	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Endosulfan I	6.07	6.07	6.07	6.07	6.07	6.07	5.97	6.17
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.16	7.16	7.16	7.16	7.16	7.16	7.06	7.26
Endrin	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
Endrin aldehyde	6.92	6.92	6.92	6.92	6.92	6.92	6.82	7.02
Endrin ketone	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Heptachlor	4.92	4.92	4.91	4.91	4.91	4.91	4.81	5.01
Heptachlor epoxide	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Instrument ID: ECD_L **Calibration Date(s):** 01/21/2025 01/21/2025

Calibration Times: 10:57 11:51

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

LAB FILE ID: RT 100 = PL093728.D RT 075 = PL093729.D

RT 050 = PL093730.D RT 025 = PL093731.D RT 005 = PL093732.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.79	5.78	5.78	5.78	5.78	5.78	5.68	5.88
4,4'-DDE	5.23	5.23	5.23	5.23	5.23	5.23	5.13	5.33
4,4'-DDT	6.04	6.03	6.03	6.03	6.03	6.03	5.93	6.13
Aldrin	4.23	4.23	4.23	4.22	4.22	4.22	4.12	4.32
alpha-BHC	3.28	3.28	3.28	3.28	3.28	3.28	3.18	3.38
alpha-Chlordane	5.04	5.04	5.04	5.04	5.04	5.04	4.94	5.14
beta-BHC	3.91	3.91	3.91	3.91	3.91	3.91	3.81	4.01
Decachlorobiphenyl	7.91	7.91	7.91	7.91	7.91	7.91	7.81	8.01
delta-BHC	4.14	4.14	4.14	4.14	4.13	4.14	4.04	4.24
Dieldrin	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Endosulfan I	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Endosulfan II	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
Endosulfan sulfate	6.33	6.33	6.33	6.33	6.33	6.33	6.23	6.43
Endrin	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Endrin aldehyde	6.11	6.11	6.11	6.11	6.11	6.11	6.01	6.21
Endrin ketone	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
gamma-BHC (Lindane)	3.61	3.61	3.61	3.61	3.61	3.61	3.51	3.71
gamma-Chlordane	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Heptachlor	3.95	3.95	3.95	3.95	3.94	3.94	3.84	4.04
Heptachlor epoxide	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Methoxychlor	6.61	6.61	6.61	6.61	6.61	6.61	6.51	6.71
Tetrachloro-m-xylene	2.78	2.77	2.77	2.77	2.77	2.77	2.67	2.87

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Instrument ID: ECD_L

Calibration Date(s): 01/21/2025 01/21/2025

Calibration Times: 10:57 11:51

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

LAB FILE ID: **CF 100 =** PL093728.D **CF 075 =** PL093729.D

CF 050 = PL093730.D **CF 025 =** PL093731.D **CF 005 =** PL093732.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	1660930000	1679650000	1932670000	1802720000	2426830000	1900560000	17
4,4'-DDE	2179870000	2169930000	2489080000	2321590000	3012520000	2434600000	14
4,4'-DDT	1755570000	1766710000	2016720000	1907120000	2414170000	1972060000	14
Aldrin	2924220000	2896750000	3292630000	3099660000	4146570000	3271970000	16
alpha-BHC	3537700000	3490280000	3918110000	3562830000	4660310000	3833850000	13
alpha-Chlordane	2458070000	2458490000	2788200000	2666580000	3570690000	2788400000	16
beta-BHC	1393460000	1394440000	1618290000	1508890000	2121530000	1607320000	19
Decachlorobiphenyl	1768480000	1816480000	2098320000	2018470000	2757820000	2091910000	19
delta-BHC	3233860000	3194550000	3605880000	3303370000	4188780000	3505290000	12
Dieldrin	2456580000	2440810000	2788190000	2639340000	3554340000	2775850000	17
Endosulfan I	2304400000	2298550000	2637060000	2528610000	3445650000	2642860000	18
Endosulfan II	2084130000	2100600000	2413950000	2287820000	3160260000	2409350000	18
Endosulfan sulfate	1923100000	1945070000	2248580000	2190510000	3011450000	2263740000	20
Endrin	2079430000	2060990000	2363220000	2218560000	3001890000	2344820000	17
Endrin aldehyde	1673120000	1696040000	1958970000	1896570000	2495580000	1944060000	17
Endrin ketone	2196850000	2205550000	2539700000	2413910000	3257130000	2522630000	17
gamma-BHC (Lindane)	3375960000	3339350000	3767250000	3460830000	4470850000	3682850000	13
gamma-Chlordane	2455830000	2471830000	2815630000	2678390000	3515170000	2787370000	16
Heptachlor	2922500000	2901690000	3325290000	3144100000	4093120000	3277340000	15
Heptachlor epoxide	2568680000	2575960000	2953630000	2835830000	3935020000	2973820000	19
Methoxychlor	907284000	922109000	1080370000	1020090000	1287130000	1043400000	15
Tetrachloro-m-xylene	2397870000	2402980000	2740040000	2595500000	3327420000	2692760000	14

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Instrument ID: ECD_L

Calibration Date(s): 01/21/2025 01/21/2025

Calibration Times: 10:57 11:51

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

LAB FILE ID: **CF 100 =** PL093728.D **CF 075 =** PL093729.D

CF 050 = PL093730.D **CF 025 =** PL093731.D **CF 005 =** PL093732.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	3134000000	3054730000	3379160000	2910470000	3304320000	3156540000	6
4,4'-DDE	3891920000	3807640000	4253650000	3749010000	4345130000	4009470000	7
4,4'-DDT	3270010000	3177800000	3542860000	3046890000	3232670000	3254050000	6
Aldrin	4482990000	4370810000	4856520000	4222470000	4876190000	4561800000	6
alpha-BHC	4914190000	4768640000	5271080000	4480730000	5010260000	4888980000	6
alpha-Chlordane	4056970000	3962110000	4424110000	3914810000	4574820000	4186560000	7
beta-BHC	1863440000	1842720000	2072180000	1889740000	2319100000	1997440000	10
Decachlorobiphenyl	3226690000	3193800000	3627020000	3320620000	4152210000	3504070000	11
delta-BHC	4741230000	4607910000	5098810000	4368820000	4939430000	4751240000	6
Dieldrin	4189300000	4076770000	4553570000	3958830000	4699760000	4295650000	7
Endosulfan I	3734100000	3661580000	4099030000	3635320000	4254550000	3876920000	7
Endosulfan II	3553260000	3487640000	3912960000	3484510000	4080760000	3703830000	7
Endosulfan sulfate	3408630000	3353240000	3757030000	3348270000	3963240000	3566080000	8
Endrin	3607760000	3481170000	3870730000	3406140000	4097610000	3692680000	8
Endrin aldehyde	2861460000	2820180000	3183430000	2892290000	3465840000	3044640000	9
Endrin ketone	3965120000	3881890000	4400080000	3907370000	4821740000	4195240000	10
gamma-BHC (Lindane)	4713370000	4597010000	5084610000	4384810000	4926270000	4741210000	6
gamma-Chlordane	4137240000	4016860000	4483010000	3935490000	4615500000	4237620000	7
Heptachlor	4505180000	4413750000	4924840000	4345980000	5084220000	4654790000	7
Heptachlor epoxide	4026840000	3946880000	4424170000	3927960000	4575440000	4180260000	7
Methoxychlor	1651870000	1634200000	1870410000	1643810000	2140390000	1788140000	12
Tetrachloro-m-xylene	3101220000	3058550000	3437230000	3066200000	3657590000	3264160000	8

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Instrument ID: ECD_L **Date(s) Analyzed:** 01/21/2025 01/21/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.24	6.14	6.34	23446000
		2	6.44	6.34	6.54	14767200
		3	7.06	6.96	7.16	75896000
		4	7.15	7.05	7.25	57345100
		5	7.93	7.83	8.03	43067100

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Instrument ID: ECD_L **Date(s) Analyzed:** 01/21/2025 01/21/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.00	4.90	5.10	27057100
		2	5.33	5.23	5.43	23947200
		3	5.68	5.58	5.78	24726400
		4	6.60	6.50	6.70	84987200
		5	7.04	6.94	7.14	80238300

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Continuing Calib Date: 01/31/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 11:17 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	4.00	3.90	4.10	0.01
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Continuing Calib Date: 01/31/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 11:17 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.01
Aldrin	4.22	4.23	4.13	4.33	0.01
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No.: CCAL01 **Date Analyzed:** 01/31/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093930.D **Time Analyzed:** 11:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.709	6.608	6.808	50.910	50.000	1.8
4,4'-DDE	6.192	6.091	6.291	50.300	50.000	0.6
4,4'-DDT	7.023	6.922	7.122	52.710	50.000	5.4
Aldrin	5.256	5.156	5.356	45.640	50.000	-8.7
alpha-BHC	3.993	3.895	4.095	47.930	50.000	-4.1
alpha-Chlordane	6.018	5.917	6.117	46.290	50.000	-7.4
beta-BHC	4.525	4.425	4.625	47.920	50.000	-4.2
Decachlorobiphenyl	9.055	8.953	9.153	45.000	50.000	-10.0
delta-BHC	4.772	4.672	4.872	44.790	50.000	-10.4
Dieldrin	6.344	6.243	6.443	45.550	50.000	-8.9
Endosulfan I	6.068	5.967	6.167	45.360	50.000	-9.3
Endosulfan II	6.793	6.692	6.892	45.890	50.000	-8.2
Endosulfan sulfate	7.158	7.057	7.257	44.420	50.000	-11.2
Endrin	6.572	6.472	6.672	46.850	50.000	-6.3
Endrin aldehyde	6.923	6.823	7.023	43.790	50.000	-12.4
Endrin ketone	7.644	7.542	7.742	44.060	50.000	-11.9
gamma-BHC (Lindane)	4.326	4.227	4.427	47.240	50.000	-5.5
gamma-Chlordane	5.939	5.838	6.038	46.300	50.000	-7.4
Heptachlor	4.914	4.814	5.014	49.110	50.000	-1.8
Heptachlor epoxide	5.683	5.582	5.782	44.870	50.000	-10.3
Methoxychlor	7.500	7.398	7.598	51.410	50.000	2.8
Tetrachloro-m-xylene	3.538	3.439	3.639	47.330	50.000	-5.3

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No.: CCAL01 **Date Analyzed:** 01/31/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093930.D **Time Analyzed:** 11:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.784	5.684	5.884	51.360	50.000	2.7
4,4'-DDE	5.229	5.130	5.330	51.230	50.000	2.5
4,4'-DDT	6.034	5.934	6.134	53.970	50.000	7.9
Aldrin	4.224	4.125	4.325	46.010	50.000	-8.0
alpha-BHC	3.276	3.177	3.377	48.050	50.000	-3.9
alpha-Chlordane	5.040	4.940	5.140	47.780	50.000	-4.4
beta-BHC	3.906	3.807	4.007	47.900	50.000	-4.2
Decachlorobiphenyl	7.910	7.810	8.010	47.390	50.000	-5.2
delta-BHC	4.135	4.036	4.236	46.170	50.000	-7.7
Dieldrin	5.361	5.261	5.461	47.240	50.000	-5.5
Endosulfan I	5.096	4.996	5.196	44.020	50.000	-12.0
Endosulfan II	5.931	5.831	6.031	47.980	50.000	-4.0
Endosulfan sulfate	6.333	6.233	6.433	47.140	50.000	-5.7
Endrin	5.636	5.536	5.736	51.340	50.000	2.7
Endrin aldehyde	6.110	6.010	6.210	44.640	50.000	-10.7
Endrin ketone	6.839	6.739	6.939	45.680	50.000	-8.6
gamma-BHC (Lindane)	3.606	3.507	3.707	45.940	50.000	-8.1
gamma-Chlordane	4.977	4.877	5.077	48.730	50.000	-2.5
Heptachlor	3.945	3.845	4.045	48.380	50.000	-3.2
Heptachlor epoxide	4.727	4.627	4.827	46.190	50.000	-7.6
Methoxychlor	6.610	6.509	6.709	52.540	50.000	5.1
Tetrachloro-m-xylene	2.774	2.674	2.874	47.580	50.000	-4.8

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Continuing Calib Date: 01/31/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 15:10 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	4.00	3.90	4.10	0.01
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Continuing Calib Date: 01/31/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 15:10 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.94	3.95	3.85	4.05	0.01
Aldrin	4.22	4.23	4.13	4.33	0.01
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No.: CCAL02 **Date Analyzed:** 01/31/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093943.D **Time Analyzed:** 15:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.710	6.608	6.808	54.880	50.000	9.8
4,4'-DDE	6.192	6.091	6.291	53.640	50.000	7.3
4,4'-DDT	7.023	6.922	7.122	53.570	50.000	7.1
Aldrin	5.256	5.156	5.356	48.820	50.000	-2.4
alpha-BHC	3.994	3.895	4.095	50.190	50.000	0.4
alpha-Chlordane	6.018	5.917	6.117	50.080	50.000	0.2
beta-BHC	4.525	4.425	4.625	49.660	50.000	-0.7
Decachlorobiphenyl	9.056	8.953	9.153	48.430	50.000	-3.1
delta-BHC	4.772	4.672	4.872	47.390	50.000	-5.2
Dieldrin	6.344	6.243	6.443	49.090	50.000	-1.8
Endosulfan I	6.069	5.967	6.167	49.170	50.000	-1.7
Endosulfan II	6.794	6.692	6.892	48.340	50.000	-3.3
Endosulfan sulfate	7.159	7.057	7.257	46.610	50.000	-6.8
Endrin	6.572	6.472	6.672	49.260	50.000	-1.5
Endrin aldehyde	6.924	6.823	7.023	46.580	50.000	-6.8
Endrin ketone	7.644	7.542	7.742	46.800	50.000	-6.4
gamma-BHC (Lindane)	4.326	4.227	4.427	49.360	50.000	-1.3
gamma-Chlordane	5.939	5.838	6.038	49.950	50.000	-0.1
Heptachlor	4.914	4.814	5.014	51.680	50.000	3.4
Heptachlor epoxide	5.683	5.582	5.782	47.960	50.000	-4.1
Methoxychlor	7.500	7.398	7.598	53.190	50.000	6.4
Tetrachloro-m-xylene	3.537	3.439	3.639	49.370	50.000	-1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No.: CCAL02 **Date Analyzed:** 01/31/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093943.D **Time Analyzed:** 15:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.784	5.684	5.884	53.890	50.000	7.8
4,4'-DDE	5.229	5.130	5.330	51.950	50.000	3.9
4,4'-DDT	6.034	5.934	6.134	53.920	50.000	7.8
Aldrin	4.224	4.125	4.325	47.070	50.000	-5.9
alpha-BHC	3.276	3.177	3.377	49.480	50.000	-1.0
alpha-Chlordane	5.040	4.940	5.140	49.320	50.000	-1.4
beta-BHC	3.906	3.807	4.007	48.590	50.000	-2.8
Decachlorobiphenyl	7.911	7.810	8.010	49.210	50.000	-1.6
delta-BHC	4.135	4.036	4.236	46.340	50.000	-7.3
Dieldrin	5.361	5.261	5.461	48.660	50.000	-2.7
Endosulfan I	5.096	4.996	5.196	45.000	50.000	-10.0
Endosulfan II	5.931	5.831	6.031	49.800	50.000	-0.4
Endosulfan sulfate	6.333	6.233	6.433	48.390	50.000	-3.2
Endrin	5.636	5.536	5.736	51.550	50.000	3.1
Endrin aldehyde	6.110	6.010	6.210	45.680	50.000	-8.6
Endrin ketone	6.839	6.739	6.939	48.250	50.000	-3.5
gamma-BHC (Lindane)	3.606	3.507	3.707	47.750	50.000	-4.5
gamma-Chlordane	4.976	4.877	5.077	50.160	50.000	0.3
Heptachlor	3.944	3.845	4.045	49.210	50.000	-1.6
Heptachlor epoxide	4.726	4.627	4.827	47.640	50.000	-4.7
Methoxychlor	6.609	6.509	6.709	52.440	50.000	4.9
Tetrachloro-m-xylene	2.773	2.674	2.874	48.600	50.000	-2.8

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Continuing Calib Date: 01/31/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 20:18 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	4.00	3.90	4.10	0.01
beta-BHC	4.52	4.53	4.43	4.63	0.01
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Continuing Calib Date: 01/31/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 20:18 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.01
Aldrin	4.22	4.23	4.13	4.33	0.01
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.04	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No.: CCAL03 **Date Analyzed:** 01/31/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093959.D **Time Analyzed:** 20:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.710	6.608	6.808	54.500	50.000	9.0
4,4'-DDE	6.192	6.091	6.291	51.300	50.000	2.6
4,4'-DDT	7.023	6.922	7.122	48.330	50.000	-3.3
Aldrin	5.256	5.156	5.356	47.800	50.000	-4.4
alpha-BHC	3.994	3.895	4.095	50.690	50.000	1.4
alpha-Chlordane	6.018	5.917	6.117	48.070	50.000	-3.9
beta-BHC	4.524	4.425	4.625	50.600	50.000	1.2
Decachlorobiphenyl	9.056	8.953	9.153	45.870	50.000	-8.3
delta-BHC	4.772	4.672	4.872	49.100	50.000	-1.8
Dieldrin	6.343	6.243	6.443	47.370	50.000	-5.3
Endosulfan I	6.068	5.967	6.167	46.980	50.000	-6.0
Endosulfan II	6.794	6.692	6.892	46.660	50.000	-6.7
Endosulfan sulfate	7.159	7.057	7.257	45.370	50.000	-9.3
Endrin	6.572	6.472	6.672	45.760	50.000	-8.5
Endrin aldehyde	6.924	6.823	7.023	45.260	50.000	-9.5
Endrin ketone	7.644	7.542	7.742	45.780	50.000	-8.4
gamma-BHC (Lindane)	4.326	4.227	4.427	49.510	50.000	-1.0
gamma-Chlordane	5.939	5.838	6.038	48.430	50.000	-3.1
Heptachlor	4.914	4.814	5.014	49.860	50.000	-0.3
Heptachlor epoxide	5.683	5.582	5.782	46.670	50.000	-6.7
Methoxychlor	7.500	7.398	7.598	47.640	50.000	-4.7
Tetrachloro-m-xylene	3.538	3.439	3.639	49.950	50.000	-0.1

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No.: CCAL03 **Date Analyzed:** 01/31/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093959.D **Time Analyzed:** 20:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.784	5.684	5.884	53.950	50.000	7.9
4,4'-DDE	5.229	5.130	5.330	53.020	50.000	6.0
4,4'-DDT	6.035	5.934	6.134	48.230	50.000	-3.5
Aldrin	4.224	4.125	4.325	48.560	50.000	-2.9
alpha-BHC	3.276	3.177	3.377	50.850	50.000	1.7
alpha-Chlordane	5.040	4.940	5.140	50.410	50.000	0.8
beta-BHC	3.907	3.807	4.007	50.650	50.000	1.3
Decachlorobiphenyl	7.911	7.810	8.010	44.510	50.000	-11.0
delta-BHC	4.135	4.036	4.236	48.490	50.000	-3.0
Dieldrin	5.361	5.261	5.461	48.940	50.000	-2.1
Endosulfan I	5.096	4.996	5.196	45.790	50.000	-8.4
Endosulfan II	5.931	5.831	6.031	48.780	50.000	-2.4
Endosulfan sulfate	6.334	6.233	6.433	46.930	50.000	-6.1
Endrin	5.636	5.536	5.736	48.830	50.000	-2.3
Endrin aldehyde	6.111	6.010	6.210	44.850	50.000	-10.3
Endrin ketone	6.839	6.739	6.939	46.120	50.000	-7.8
gamma-BHC (Lindane)	3.606	3.507	3.707	49.220	50.000	-1.6
gamma-Chlordane	4.975	4.877	5.077	50.890	50.000	1.8
Heptachlor	3.945	3.845	4.045	49.210	50.000	-1.6
Heptachlor epoxide	4.727	4.627	4.827	49.060	50.000	-1.9
Methoxychlor	6.610	6.509	6.709	46.040	50.000	-7.9
Tetrachloro-m-xylene	2.773	2.674	2.874	50.250	50.000	0.5

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Continuing Calib Date: 02/01/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 00:57 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	4.00	3.90	4.10	0.01
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.91	4.81	5.01	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.35	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.65	7.64	7.54	7.74	0.00
Endrin aldehyde	6.93	6.92	6.82	7.02	-0.01
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Continuing Calib Date: 02/01/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 00:57 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.01
Aldrin	4.22	4.23	4.13	4.33	0.01
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.79	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.04	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No.: CCAL04 **Date Analyzed:** 02/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093971.D **Time Analyzed:** 00:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.711	6.608	6.808	54.730	50.000	9.5
4,4'-DDE	6.192	6.091	6.291	51.870	50.000	3.7
4,4'-DDT	7.025	6.922	7.122	44.830	50.000	-10.3
Aldrin	5.257	5.156	5.356	49.150	50.000	-1.7
alpha-BHC	3.994	3.895	4.095	51.630	50.000	3.3
alpha-Chlordane	6.018	5.917	6.117	49.050	50.000	-1.9
beta-BHC	4.526	4.425	4.625	50.470	50.000	0.9
Decachlorobiphenyl	9.057	8.953	9.153	44.060	50.000	-11.9
delta-BHC	4.772	4.672	4.872	49.410	50.000	-1.2
Dieldrin	6.345	6.243	6.443	47.520	50.000	-5.0
Endosulfan I	6.069	5.967	6.167	48.060	50.000	-3.9
Endosulfan II	6.795	6.692	6.892	46.330	50.000	-7.3
Endosulfan sulfate	7.160	7.057	7.257	44.270	50.000	-11.5
Endrin	6.573	6.472	6.672	44.470	50.000	-11.1
Endrin aldehyde	6.925	6.823	7.023	44.530	50.000	-10.9
Endrin ketone	7.645	7.542	7.742	44.660	50.000	-10.7
gamma-BHC (Lindane)	4.327	4.227	4.427	50.040	50.000	0.1
gamma-Chlordane	5.940	5.838	6.038	49.550	50.000	-0.9
Heptachlor	4.915	4.814	5.014	50.120	50.000	0.2
Heptachlor epoxide	5.683	5.582	5.782	47.790	50.000	-4.4
Methoxychlor	7.500	7.398	7.598	43.640	50.000	-12.7
Tetrachloro-m-xylene	3.538	3.439	3.639	51.110	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No.: CCAL04 **Date Analyzed:** 02/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093971.D **Time Analyzed:** 00:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.785	5.684	5.884	56.200	50.000	12.4
4,4'-DDE	5.230	5.130	5.330	54.610	50.000	9.2
4,4'-DDT	6.035	5.934	6.134	46.460	50.000	-7.1
Aldrin	4.224	4.125	4.325	50.030	50.000	0.1
alpha-BHC	3.276	3.177	3.377	53.120	50.000	6.2
alpha-Chlordane	5.041	4.940	5.140	51.720	50.000	3.4
beta-BHC	3.906	3.807	4.007	52.880	50.000	5.8
Decachlorobiphenyl	7.911	7.810	8.010	42.340	50.000	-15.3
delta-BHC	4.135	4.036	4.236	50.050	50.000	0.1
Dieldrin	5.361	5.261	5.461	50.490	50.000	1.0
Endosulfan I	5.097	4.996	5.196	45.740	50.000	-8.5
Endosulfan II	5.932	5.831	6.031	49.620	50.000	-0.8
Endosulfan sulfate	6.334	6.233	6.433	47.400	50.000	-5.2
Endrin	5.637	5.536	5.736	49.760	50.000	-0.5
Endrin aldehyde	6.111	6.010	6.210	45.370	50.000	-9.3
Endrin ketone	6.840	6.739	6.939	45.870	50.000	-8.3
gamma-BHC (Lindane)	3.606	3.507	3.707	51.100	50.000	2.2
gamma-Chlordane	4.977	4.877	5.077	52.470	50.000	4.9
Heptachlor	3.945	3.845	4.045	50.220	50.000	0.4
Heptachlor epoxide	4.727	4.627	4.827	50.070	50.000	0.1
Methoxychlor	6.611	6.509	6.709	45.230	50.000	-9.5
Tetrachloro-m-xylene	2.774	2.674	2.874	52.270	50.000	4.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No. (PEM): PEM - PL093726.D **Date Analyzed:** 01/21/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:30

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.052	8.950	9.150	18.070	20.000	-9.7
Tetrachloro-m-xylene	3.538	3.490	3.590	18.530	20.000	-7.4
alpha-BHC	3.994	3.940	4.040	9.490	10.000	-5.1
beta-BHC	4.525	4.470	4.580	9.790	10.000	-2.1
gamma-BHC (Lindane)	4.326	4.280	4.380	9.300	10.000	-7.0
Endrin	6.572	6.500	6.640	41.270	50.000	-17.5
4,4'-DDT	7.022	6.950	7.090	82.410	100.000	-17.6
Methoxychlor	7.498	7.430	7.570	190.380	250.000	-23.8

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

Client Sample No. (PEM): PEM - PL093726.D **Date Analyzed:** 01/21/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:30

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.909	7.810	8.010	17.950	20.000	-10.3
Tetrachloro-m-xylene	2.775	2.720	2.830	17.900	20.000	-10.5
alpha-BHC	3.277	3.230	3.330	8.620	10.000	-13.8
beta-BHC	3.907	3.860	3.960	9.800	10.000	-2.0
gamma-BHC (Lindane)	3.607	3.560	3.660	8.300	10.000	-17.0
Endrin	5.636	5.570	5.710	42.700	50.000	-14.6
4,4'-DDT	6.034	5.960	6.100	96.510	100.000	-3.5
Methoxychlor	6.609	6.540	6.680	209.940	250.000	-16.0

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No. (PEM): PEM - PL093929.D **Date Analyzed:** 01/31/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:04

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.055	8.950	9.160	20.810	20.000	4.1
Tetrachloro-m-xylene	3.536	3.490	3.590	21.970	20.000	9.9
alpha-BHC	3.993	3.940	4.040	11.710	10.000	17.1
beta-BHC	4.524	4.470	4.570	11.950	10.000	19.5
gamma-BHC (Lindane)	4.325	4.270	4.380	11.550	10.000	15.5
Endrin	6.571	6.500	6.640	48.650	50.000	-2.7
4,4'-DDT	7.023	6.950	7.090	111.680	100.000	11.7
Methoxychlor	7.499	7.430	7.570	263.710	250.000	5.5

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

Client Sample No. (PEM): PEM - PL093929.D **Date Analyzed:** 01/31/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:04

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.909	7.810	8.010	20.550	20.000	2.8
Tetrachloro-m-xylene	2.773	2.720	2.820	21.090	20.000	5.5
alpha-BHC	3.276	3.230	3.330	10.040	10.000	0.4
beta-BHC	3.906	3.860	3.960	10.760	10.000	7.6
gamma-BHC (Lindane)	3.606	3.560	3.660	9.410	10.000	-5.9
Endrin	5.636	5.570	5.710	52.600	50.000	5.2
4,4'-DDT	6.034	5.960	6.100	118.390	100.000	18.4
Methoxychlor	6.609	6.540	6.680	266.850	250.000	6.7

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

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

Client Sample No. (PEM): PEM - PL093958.D **Date Analyzed:** 01/31/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:39

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.056	8.960	9.160	20.910	20.000	4.6
Tetrachloro-m-xylene	3.537	3.490	3.590	23.840	20.000	19.2
alpha-BHC	3.993	3.940	4.040	12.420	10.000	24.2
beta-BHC	4.525	4.470	4.580	12.480	10.000	24.8
gamma-BHC (Lindane)	4.326	4.280	4.380	11.910	10.000	19.1
Endrin	6.572	6.500	6.640	47.160	50.000	-5.7
4,4'-DDT	7.024	6.950	7.090	98.200	100.000	-1.8
Methoxychlor	7.501	7.430	7.570	231.470	250.000	-7.4

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

Client Sample No. (PEM): PEM - PL093958.D **Date Analyzed:** 01/31/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:39

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.911	7.810	8.010	18.550	20.000	-7.3
Tetrachloro-m-xylene	2.774	2.720	2.820	22.890	20.000	14.5
alpha-BHC	3.276	3.230	3.330	10.850	10.000	8.5
beta-BHC	3.907	3.860	3.960	12.090	10.000	20.9
gamma-BHC (Lindane)	3.606	3.560	3.660	10.490	10.000	4.9
Endrin	5.637	5.570	5.710	50.900	50.000	1.8
4,4'-DDT	6.034	5.960	6.100	108.940	100.000	8.9
Methoxychlor	6.611	6.540	6.680	235.360	250.000	-5.9

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Analytical Sequence

Client: RU2 Engineering, LLC **SDG No.:** Q1242

Project: NYCDDC SANTWOBR Brooklyn Bridge BI **Instrument ID:** ECD_L

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 #
I.BLK	I.BLK	01/21/2025	10:16	PL093725.D	9.05	3.54
PEM	PEM	01/21/2025	10:30	PL093726.D	9.05	3.54
RESCHK	RESCHK	01/21/2025	10:43	PL093727.D	9.05	3.54
PSTDICC100	PSTDICC100	01/21/2025	10:57	PL093728.D	9.05	3.54
PSTDICC075	PSTDICC075	01/21/2025	11:10	PL093729.D	9.05	3.54
PSTDICC050	PSTDICC050	01/21/2025	11:24	PL093730.D	9.05	3.54
PSTDICC025	PSTDICC025	01/21/2025	11:38	PL093731.D	9.05	3.54
PSTDICC005	PSTDICC005	01/21/2025	11:51	PL093732.D	9.05	3.54
PCHLORICC500	PCHLORICC500	01/21/2025	12:32	PL093735.D	9.05	3.54
PTOXICC500	PTOXICC500	01/21/2025	13:39	PL093740.D	9.05	3.54
I.BLK	I.BLK	01/31/2025	10:51	PL093928.D	9.05	3.54
PEM	PEM	01/31/2025	11:04	PL093929.D	9.06	3.54
PSTDCCC050	PSTDCCC050	01/31/2025	11:17	PL093930.D	9.06	3.54
PB166413BL	PB166413BL	01/31/2025	14:28	PL093940.D	9.06	3.54
PB166413BS	PB166413BS	01/31/2025	14:43	PL093941.D	9.06	3.54
I.BLK	I.BLK	01/31/2025	14:57	PL093942.D	9.06	3.54
PSTDCCC050	PSTDCCC050	01/31/2025	15:10	PL093943.D	9.06	3.54
I.BLK	I.BLK	01/31/2025	19:26	PL093957.D	9.06	3.54
PEM	PEM	01/31/2025	19:39	PL093958.D	9.06	3.54
PSTDCCC050	PSTDCCC050	01/31/2025	20:18	PL093959.D	9.06	3.54
357MS	Q1239-10MS	01/31/2025	20:31	PL093960.D	9.06	3.54
357MSD	Q1239-10MSD	01/31/2025	20:45	PL093961.D	9.06	3.54
JPP-6.2-013025	Q1242-03	01/31/2025	22:04	PL093967.D	9.06	3.54
I.BLK	I.BLK	01/31/2025	22:43	PL093970.D	9.06	3.54
PSTDCCC050	PSTDCCC050	02/01/2025	00:57	PL093971.D	9.06	3.54

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Analytical Sequence

Client: RU2 Engineering, LLC **SDG No.:** Q1242

Project: NYCDDC SANTWOBR Brooklyn Bridge BI **Instrument ID:** ECD_L

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 #
I.BLK	I.BLK	01/21/2025	10:16	PL093725.D	7.91	2.78
PEM	PEM	01/21/2025	10:30	PL093726.D	7.91	2.78
RESCHK	RESCHK	01/21/2025	10:43	PL093727.D	7.91	2.77
PSTDICC100	PSTDICC100	01/21/2025	10:57	PL093728.D	7.91	2.78
PSTDICC075	PSTDICC075	01/21/2025	11:10	PL093729.D	7.91	2.77
PSTDICC050	PSTDICC050	01/21/2025	11:24	PL093730.D	7.91	2.77
PSTDICC025	PSTDICC025	01/21/2025	11:38	PL093731.D	7.91	2.77
PSTDICC005	PSTDICC005	01/21/2025	11:51	PL093732.D	7.91	2.77
PCHLORICC500	PCHLORICC500	01/21/2025	12:32	PL093735.D	7.91	2.77
PTOXICC500	PTOXICC500	01/21/2025	13:39	PL093740.D	7.91	2.77
I.BLK	I.BLK	01/31/2025	10:51	PL093928.D	7.91	2.77
PEM	PEM	01/31/2025	11:04	PL093929.D	7.91	2.77
PSTDCCC050	PSTDCCC050	01/31/2025	11:17	PL093930.D	7.91	2.77
PB166413BL	PB166413BL	01/31/2025	14:28	PL093940.D	7.91	2.77
PB166413BS	PB166413BS	01/31/2025	14:43	PL093941.D	7.91	2.77
I.BLK	I.BLK	01/31/2025	14:57	PL093942.D	7.91	2.77
PSTDCCC050	PSTDCCC050	01/31/2025	15:10	PL093943.D	7.91	2.77
I.BLK	I.BLK	01/31/2025	19:26	PL093957.D	7.91	2.77
PEM	PEM	01/31/2025	19:39	PL093958.D	7.91	2.77
PSTDCCC050	PSTDCCC050	01/31/2025	20:18	PL093959.D	7.91	2.77
357MS	Q1239-10MS	01/31/2025	20:31	PL093960.D	7.91	2.77
357MSD	Q1239-10MSD	01/31/2025	20:45	PL093961.D	7.91	2.77
JPP-6.2-013025	Q1242-03	01/31/2025	22:04	PL093967.D	7.91	2.77
I.BLK	I.BLK	01/31/2025	22:43	PL093970.D	7.91	2.77
PSTDCCC050	PSTDCCC050	02/01/2025	00:57	PL093971.D	7.91	2.77

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

357MS

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Lab Sample ID: Q1239-10MS **Date(s) Analyzed:** 01/31/2025 01/31/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.79	6.74	6.84	18.7	4.2
	2	5.93	5.88	5.98	19.5	
4,4'-DDD	1	6.71	6.66	6.76	22.0	2.8
	2	5.79	5.74	5.84	21.4	
4,4'-DDT	1	7.02	6.97	7.07	18.9	0.5
	2	6.04	5.99	6.09	18.8	
Endrin aldehyde	1	6.92	6.87	6.97	13.7	3.7
	2	6.11	6.06	6.16	13.2	
Endosulfan sulfate	1	7.16	7.11	7.21	18.2	1.1
	2	6.33	6.28	6.38	18.4	
Methoxychlor	1	7.50	7.45	7.55	17.4	0.6
	2	6.61	6.56	6.66	17.5	
Endrin ketone	1	7.65	7.60	7.70	17.5	0
	2	6.84	6.79	6.89	17.5	
alpha-BHC	1	3.99	3.94	4.04	19.6	2.1
	2	3.28	3.23	3.33	19.2	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	19.2	1.6
	2	3.61	3.56	3.66	18.9	
Heptachlor	1	4.92	4.87	4.97	19.1	3.7
	2	3.95	3.90	4.00	18.4	
Aldrin	1	5.26	5.21	5.31	19.3	0
	2	4.22	4.17	4.27	19.3	
beta-BHC	1	4.53	4.48	4.58	19.8	0.5
	2	3.91	3.86	3.96	19.9	
delta-BHC	1	4.77	4.72	4.82	19.1	1.1
	2	4.14	4.09	4.19	18.9	
Heptachlor epoxide	1	5.68	5.63	5.73	18.6	7.3
	2	4.73	4.68	4.78	20.0	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

357MS

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Lab Sample ID: Q1239-10MS **Date(s) Analyzed:** 01/31/2025 01/31/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.07	6.02	6.12	19.0	0.5
	2	5.10	5.05	5.15	18.9	
gamma-Chlordane	1	5.94	5.89	5.99	20.2	3.9
	2	4.98	4.93	5.03	21.0	
alpha-Chlordane	1	6.02	5.97	6.07	19.8	3
	2	5.04	4.99	5.09	20.4	
4,4'-DDE	1	6.19	6.14	6.24	19.9	7.3
	2	5.23	5.18	5.28	21.4	
Dieldrin	1	6.35	6.30	6.40	19.2	6.5
	2	5.36	5.31	5.41	20.5	
Endrin	1	6.57	6.52	6.62	18.6	8.2
	2	5.64	5.59	5.69	20.2	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

357MSD

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Lab Sample ID: Q1239-10MSD **Date(s) Analyzed:** 01/31/2025 01/31/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.79	6.74	6.84	19.2	4.6
	2	5.93	5.88	5.98	20.1	
4,4'-DDD	1	6.71	6.66	6.76	22.2	2.7
	2	5.78	5.73	5.83	21.6	
alpha-Chlordane	1	6.02	5.97	6.07	20.0	3
	2	5.04	4.99	5.09	20.6	
4,4'-DDE	1	6.19	6.14	6.24	20.0	6.8
	2	5.23	5.18	5.28	21.4	
Dieldrin	1	6.34	6.29	6.39	19.2	7
	2	5.36	5.31	5.41	20.6	
Endrin	1	6.57	6.52	6.62	19.0	9.5
	2	5.64	5.59	5.69	20.9	
4,4'-DDT	1	7.02	6.97	7.07	20.5	0.5
	2	6.03	5.98	6.08	20.4	
Endrin aldehyde	1	6.92	6.87	6.97	18.7	0
	2	6.11	6.06	6.16	18.7	
Endosulfan sulfate	1	7.16	7.11	7.21	18.9	4.1
	2	6.33	6.28	6.38	19.7	
Methoxychlor	1	7.50	7.45	7.55	19.8	1
	2	6.61	6.56	6.66	19.6	
Endrin ketone	1	7.64	7.59	7.69	18.8	0
	2	6.84	6.79	6.89	18.8	
alpha-BHC	1	3.99	3.94	4.04	19.8	2
	2	3.28	3.23	3.33	19.4	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	19.4	1
	2	3.61	3.56	3.66	19.2	
Heptachlor	1	4.91	4.86	4.96	20.3	3.5
	2	3.94	3.89	3.99	19.6	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

357MSD

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Lab Sample ID: Q1239-10MSD **Date(s) Analyzed:** 01/31/2025 01/31/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Aldrin	1	5.26	5.21	5.31	19.5	1
	2	4.22	4.17	4.27	19.3	
beta-BHC	1	4.53	4.48	4.58	20.1	0.5
	2	3.91	3.86	3.96	20.0	
delta-BHC	1	4.77	4.72	4.82	20.0	3
	2	4.13	4.08	4.18	19.4	
Heptachlor epoxide	1	5.68	5.63	5.73	18.9	5.7
	2	4.73	4.68	4.78	20.0	
Endosulfan I	1	6.07	6.02	6.12	19.5	1
	2	5.10	5.05	5.15	19.3	
gamma-Chlordane	1	5.94	5.89	5.99	20.1	3.9
	2	4.98	4.93	5.03	20.9	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

JPP-6.2-013025

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Lab Sample ID: Q1242-03 **Date(s) Analyzed:** 01/31/2025 01/31/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
alpha-Chlordane	1	6.02	5.97	6.07	0.56	72.6
	2	5.04	4.99	5.09	0.26	
Endrin	1	6.57	6.52	6.62	0.25	15.9
	2	5.64	5.59	5.69	0.21	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166413BS

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Lab Sample ID: PB166413BS **Date(s) Analyzed:** 01/31/2025 01/31/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	17.0	0.6
	2	5.79	5.74	5.84	17.1	
4,4'-DDT	1	7.03	6.98	7.08	17.5	0
	2	6.04	5.99	6.09	17.5	
Aldrin	1	5.26	5.21	5.31	15.0	3.4
	2	4.23	4.18	4.28	14.5	
4,4'-DDE	1	6.19	6.14	6.24	16.5	0.6
	2	5.23	5.18	5.28	16.4	
Endosulfan II	1	6.80	6.75	6.85	15.5	4.4
	2	5.93	5.88	5.98	16.2	
Endrin aldehyde	1	6.93	6.88	6.98	15.0	2
	2	6.11	6.06	6.16	15.3	
Endosulfan sulfate	1	7.16	7.11	7.21	15.1	7
	2	6.33	6.28	6.38	16.2	
Methoxychlor	1	7.50	7.45	7.55	16.6	3.6
	2	6.61	6.56	6.66	17.2	
Endrin ketone	1	7.65	7.60	7.70	15.2	3.2
	2	6.84	6.79	6.89	15.7	
alpha-BHC	1	4.00	3.95	4.05	14.9	2
	2	3.28	3.23	3.33	14.6	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	14.8	3.4
	2	3.61	3.56	3.66	14.3	
Heptachlor	1	4.92	4.87	4.97	16.0	4.5
	2	3.95	3.90	4.00	15.3	
beta-BHC	1	4.53	4.48	4.58	15.0	0.7
	2	3.91	3.86	3.96	15.1	
delta-BHC	1	4.78	4.73	4.83	15.1	4.1
	2	4.14	4.09	4.19	14.5	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166413BS

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1242 **SAS No.:** Q1242 **SDG NO.:** Q1242

Lab Sample ID: PB166413BS **Date(s) Analyzed:** 01/31/2025 01/31/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Heptachlor epoxide	1	5.69	5.64	5.74	14.8	3.3
	2	4.73	4.68	4.78	15.3	
Endosulfan I	1	6.07	6.02	6.12	15.4	2
	2	5.10	5.05	5.15	15.1	
gamma-Chlordane	1	5.94	5.89	5.99	15.4	1.9
	2	4.98	4.93	5.03	15.7	
alpha-Chlordane	1	6.02	5.97	6.07	15.6	0.6
	2	5.04	4.99	5.09	15.7	
Dieldrin	1	6.35	6.30	6.40	15.4	0.6
	2	5.36	5.31	5.41	15.5	
Endrin	1	6.58	6.53	6.63	15.7	6.8
	2	5.64	5.59	5.69	16.8	