



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

LAB CHRONICLE

OrderID:	Q1322	OrderDate:	2/6/2025 1:17:00 PM
Client:	Spectra East Inc.	Project:	Outfall 001 - Orangetown Dis Permit 2025
Contact:	Jacob Valeich	Location:	N41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1322-01	MANHOLE	WATER	PCB	8082A	02/06/25	02/07/25	02/07/25	02/06/25
			PESTICIDE Group1	608.3		02/07/25	02/10/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q1322

Order ID: Q1322

Client: Spectra East Inc.

Project ID: Outfall 001 - Orangetown Dis Permit 2

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000

A
B
C
D
E
F
G
H



SAMPLE DATA

Report of Analysis

Client:	Spectra East Inc.	Date Collected:	02/06/25
Project:	Outfall 001 - Orangetown Dis Permit 2025	Date Received:	02/06/25
Client Sample ID:	MANHOLE	SDG No.:	Q1322
Lab Sample ID:	Q1322-01	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	960	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PESTICIDE Group1
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094114.D	1	02/07/25 11:55	02/10/25 14:43	PB166620

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.00060	U	0.00060	0.0052	ug/L
58-89-9	gamma-BHC (Lindane)	0.00050	U	0.00050	0.0052	ug/L
76-44-8	Heptachlor	0.00060	U	0.00060	0.0052	ug/L
309-00-2	Aldrin	0.00050	U	0.00050	0.0052	ug/L
319-85-7	beta-BHC	0.0015	U	0.0015	0.0052	ug/L
319-86-8	delta-BHC	0.0016	U	0.0016	0.0052	ug/L
1024-57-3	Heptachlor epoxide	0.00090	U	0.00090	0.0052	ug/L
959-98-8	Endosulfan I	0.00050	U	0.00050	0.0052	ug/L
5103-74-2	gamma-Chlordane	0.00060	U	0.00060	0.0052	ug/L
5103-71-9	alpha-Chlordane	0.00060	U	0.00060	0.0052	ug/L
72-55-9	4,4-DDE	0.00050	U	0.00050	0.0052	ug/L
60-57-1	Dieldrin	0.00050	U	0.00050	0.0052	ug/L
72-20-8	Endrin	0.00040	U	0.00040	0.0052	ug/L
33213-65-9	Endosulfan II	0.00080	U	0.00080	0.0052	ug/L
72-54-8	4,4-DDD	0.0010	U	0.0010	0.0052	ug/L
50-29-3	4,4-DDT	0.00050	U	0.00050	0.0052	ug/L
7421-93-4	Endrin aldehyde	0.0010	U	0.0010	0.0052	ug/L
1031-07-8	Endosulfan Sulfate	0.00040	U	0.00040	0.0052	ug/L
72-43-5	Methoxychlor	0.0011	U	0.0011	0.0052	ug/L
53494-70-5	Endrin ketone	0.0010	U	0.0010	0.0052	ug/L
8001-35-2	Toxaphene	0.016	U	0.016	0.10	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.1		60 - 140	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.7		60 - 140	64%	SPK: 20

Report of Analysis

Client:	Spectra East Inc.	Date Collected:	02/06/25
Project:	Outfall 001 - Orangetown Dis Permit 2025	Date Received:	02/06/25
Client Sample ID:	MANHOLE	SDG No.:	Q1322
Lab Sample ID:	Q1322-01	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	960	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PESTICIDE Group1
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094114.D	1	02/07/25 11:55	02/10/25 14:43	PB166620

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit



QC SUMMARY

Surrogate Summary

SDG No.: Q1322

Client: Spectra East Inc.

Analytical Method: 608.3 Pest

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	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-PL094108.D	PIBLK-PL094108.D	Decachlorobiphenyl	1	20	19.2	96		43	140
		Tetrachloro-m-xylene	1	20	18.7	94		77	126
		Decachlorobiphenyl	2	20	18.9	94		43	140
		Tetrachloro-m-xylene	2	20	18.2	91		77	126
PB166620BL	PB166620BL	Tetrachloro-m-xylene	1	20	25.1	126		60	140
		Decachlorobiphenyl	1	20	24.9	124		60	140
		Tetrachloro-m-xylene	2	20	24.6	123		60	140
		Decachlorobiphenyl	2	20	25.1	126		60	140
PB166620BS	PB166620BS	Tetrachloro-m-xylene	1	20	21.6	108		60	140
		Decachlorobiphenyl	1	20	21.0	105		60	140
		Tetrachloro-m-xylene	2	20	20.7	104		60	140
		Decachlorobiphenyl	2	20	20.8	104		60	140
PB166620BSD	PB166620BSD	Tetrachloro-m-xylene	1	20	20.6	103		60	140
		Decachlorobiphenyl	1	20	19.8	99		60	140
		Tetrachloro-m-xylene	2	20	19.6	98		60	140
		Decachlorobiphenyl	2	20	20.1	100		60	140
Q1322-01	MANHOLE	Tetrachloro-m-xylene	1	20	17.1	85		60	140
		Decachlorobiphenyl	1	20	12.9	65		60	140
		Tetrachloro-m-xylene	2	20	18.5	92		60	140
		Decachlorobiphenyl	2	20	12.7	64		60	140
I.BLK-PL094119.D	PIBLK-PL094119.D	Decachlorobiphenyl	1	20	19.2	96		43	140
		Tetrachloro-m-xylene	1	20	18.3	92		77	126
		Decachlorobiphenyl	2	20	19.6	98		43	140
		Tetrachloro-m-xylene	2	20	18.2	91		77	126

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1322

Client: Spectra East Inc.

Analytical Method: **608.3 Pest** Datafile : PL094112.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB166620BS	alpha-BHC	0.0125	0.011	ug/L	85				37	140	
	gamma-BHC (Lindane)	0.0125	0.011	ug/L	86				32	140	
	Heptachlor	0.0125	0.011	ug/L	89				34	140	
	Aldrin	0.0125	0.011	ug/L	90				42	140	
	beta-BHC	0.0125	0.012	ug/L	95				17	147	
	delta-BHC	0.0125	0.011	ug/L	84				19	140	
	Heptachlor epoxide	0.0125	0.011	ug/L	90				37	142	
	Endosulfan I	0.0125	0.010	ug/L	80				45	153	
	gamma-Chlordane	0.0125	0.011	ug/L	91				45	140	
	alpha-Chlordane	0.0125	0.011	ug/L	90				45	140	
	4,4'-DDE	0.0125	0.011	ug/L	91				30	145	
	Dieldrin	0.0125	0.011	ug/L	86				36	146	
	Endrin	0.0125	0.011	ug/L	90				30	147	
	Endosulfan II	0.0125	0.011	ug/L	90				1	202	
	4,4'-DDD	0.0125	0.011	ug/L	91				31	141	
	4,4'-DDT	0.0125	0.012	ug/L	94				25	160	
	Endrin aldehyde	0.0125	0.011	ug/L	90				38	141	
	Endosulfan sulfate	0.0125	0.011	ug/L	90				26	144	
	Methoxychlor	0.0125	0.012	ug/L	99				30	151	
	Endrin ketone	0.0125	0.011	ug/L	90				44	149	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1322

Client: Spectra East Inc.

Analytical Method: **608.3 Pest** Datafile : PL094113.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB166620BSD	alpha-BHC	0.0125	0.010	ug/L	80	6			37	140	20
	gamma-BHC (Lindane)	0.0125	0.010	ug/L	82	5			32	140	20
	Heptachlor	0.0125	0.011	ug/L	85	5			34	140	20
	Aldrin	0.0125	0.011	ug/L	86	5			42	140	20
	beta-BHC	0.0125	0.011	ug/L	90	5			17	147	20
	delta-BHC	0.0125	0.010	ug/L	80	5			19	140	20
	Heptachlor epoxide	0.0125	0.011	ug/L	86	5			37	142	20
	Endosulfan I	0.0125	0.0085	ug/L	68	16			45	153	20
	gamma-Chlordane	0.0125	0.011	ug/L	88	3			45	140	20
	alpha-Chlordane	0.0125	0.011	ug/L	86	5			45	140	20
	4,4'-DDE	0.0125	0.011	ug/L	89	2			30	145	20
	Dieldrin	0.0125	0.010	ug/L	83	4			36	146	20
	Endrin	0.0125	0.011	ug/L	90	0			30	147	20
	Endosulfan II	0.0125	0.011	ug/L	86	5			1	202	20
	4,4'-DDD	0.0125	0.011	ug/L	88	3			31	141	20
	4,4'-DDT	0.0125	0.011	ug/L	89	5			25	160	20
	Endrin aldehyde	0.0125	0.011	ug/L	86	5			38	141	20
	Endosulfan sulfate	0.0125	0.011	ug/L	85	6			26	144	20
	Methoxychlor	0.0125	0.012	ug/L	95	4			30	151	20
	Endrin ketone	0.0125	0.011	ug/L	90	0			44	149	20

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166620BL

Lab Name: CHEMTECH

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322

SAS No.: Q1322 SDG NO.: Q1322

Lab Sample ID: PB166620BL

Lab File ID: PL094111.D

Matrix: (soil/water) WATER

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 02/07/2025

Date Analyzed (1): 02/10/2025

Date Analyzed (2): 02/10/2025

Time Analyzed (1): 11:18

Time Analyzed (2): 11:18

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
PB166620BS	PB166620BS	PL094112.D	02/10/2025	02/10/2025
PB166620BSD	PB166620BSD	PL094113.D	02/10/2025	02/10/2025
MANHOLE	Q1322-01	PL094114.D	02/10/2025	02/10/2025

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	Spectra East Inc.		Date Collected:	
Project:	Outfall 001 - Orangetown Dis Permit 2025		Date Received:	
Client Sample ID:	PB166620BL		SDG No.:	Q1322
Lab Sample ID:	PB166620BL		Matrix:	WATER
Analytical Method:	608.3		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Decanted:	
Soil Aliquot Vol:		uL	Final Vol:	1000 uL
Extraction Type:			Test:	PESTICIDE Group1
GPC Factor :	1.0	PH :	Injection Volume :	
Prep Method :	5030			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094111.D	1	02/07/25 11:55	02/10/25 11:18	PB166620

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.00060	U	0.00060	0.0050	ug/L
58-89-9	gamma-BHC (Lindane)	0.00050	U	0.00050	0.0050	ug/L
76-44-8	Heptachlor	0.00050	U	0.00050	0.0050	ug/L
309-00-2	Aldrin	0.00040	U	0.00040	0.0050	ug/L
319-85-7	beta-BHC	0.0014	U	0.0014	0.0050	ug/L
319-86-8	delta-BHC	0.0015	U	0.0015	0.0050	ug/L
1024-57-3	Heptachlor epoxide	0.00090	U	0.00090	0.0050	ug/L
959-98-8	Endosulfan I	0.00050	U	0.00050	0.0050	ug/L
5103-74-2	gamma-Chlordane	0.00060	U	0.00060	0.0050	ug/L
5103-71-9	alpha-Chlordane	0.00060	U	0.00060	0.0050	ug/L
72-55-9	4,4-DDE	0.00050	U	0.00050	0.0050	ug/L
60-57-1	Dieldrin	0.00050	U	0.00050	0.0050	ug/L
72-20-8	Endrin	0.00040	U	0.00040	0.0050	ug/L
33213-65-9	Endosulfan II	0.00080	U	0.00080	0.0050	ug/L
72-54-8	4,4-DDD	0.00090	U	0.00090	0.0050	ug/L
50-29-3	4,4-DDT	0.00040	U	0.00040	0.0050	ug/L
7421-93-4	Endrin aldehyde	0.0010	U	0.0010	0.0050	ug/L
1031-07-8	Endosulfan Sulfate	0.00040	U	0.00040	0.0050	ug/L
72-43-5	Methoxychlor	0.0011	U	0.0011	0.0050	ug/L
53494-70-5	Endrin ketone	0.0010	U	0.0010	0.0050	ug/L
8001-35-2	Toxaphene	0.015	U	0.015	0.10	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.6		60 - 140	123%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.9		60 - 140	124%	SPK: 20

Report of Analysis

Client:	Spectra East Inc.		Date Collected:	
Project:	Outfall 001 - Orangetown Dis Permit 2025		Date Received:	
Client Sample ID:	PB166620BL		SDG No.:	Q1322
Lab Sample ID:	PB166620BL		Matrix:	WATER
Analytical Method:	608.3		% Solid:	0 Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1
Extraction Type:			Injection Volume :	
GPC Factor :	1.0	PH :		
Prep Method :	5030			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094111.D	1	02/07/25 11:55	02/10/25 11:18	PB166620

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	Spectra East Inc.	Date Collected:	01/21/25
Project:	Outfall 001 - Orangetown Dis Permit 2025	Date Received:	01/21/25
Client Sample ID:	PIBLK-PL093725.D	SDG No.:	Q1322
Lab Sample ID:	I.BLK-PL093725.D	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PESTICIDE Group1
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
			uL
		Injection Volume :	

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	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	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

Report of Analysis

Client:	Spectra East Inc.	Date Collected:	01/21/25
Project:	Outfall 001 - Orangetown Dis Permit 2025	Date Received:	01/21/25
Client Sample ID:	PIBLK-PL093725.D	SDG No.:	Q1322
Lab Sample ID:	I.BLK-PL093725.D	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PESTICIDE Group1
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

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
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Comments:

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LOD = Limit of Detection

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Q = indicates LCS control criteria did not meet requirements

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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:	Spectra East Inc.	Date Collected:	02/10/25
Project:	Outfall 001 - Orangetown Dis Permit 2025	Date Received:	02/10/25
Client Sample ID:	PIBLK-PL094108.D	SDG No.:	Q1322
Lab Sample ID:	I.BLK-PL094108.D	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PESTICIDE Group1
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094108.D	1		02/10/25	pl021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.2		43 - 140	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.7		77 - 126	94%	SPK: 20

Report of Analysis

Client:	Spectra East Inc.		Date Collected:	02/10/25	
Project:	Outfall 001 - Orangetown Dis Permit 2025		Date Received:	02/10/25	
Client Sample ID:	PIBLK-PL094108.D		SDG No.:	Q1322	
Lab Sample ID:	I.BLK-PL094108.D		Matrix:	WATER	
Analytical Method:	608.3		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094108.D	1		02/10/25	p1021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	Spectra East Inc.	Date Collected:	02/10/25
Project:	Outfall 001 - Orangetown Dis Permit 2025	Date Received:	02/10/25
Client Sample ID:	PIBLK-PL094119.D	SDG No.:	Q1322
Lab Sample ID:	I.BLK-PL094119.D	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PESTICIDE Group1
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094119.D	1		02/10/25	pl021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.6		43 - 140	98%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.3		77 - 126	92%	SPK: 20

Report of Analysis

Client:	Spectra East Inc.	Date Collected:	02/10/25
Project:	Outfall 001 - Orangetown Dis Permit 2025	Date Received:	02/10/25
Client Sample ID:	PIBLK-PL094119.D	SDG No.:	Q1322
Lab Sample ID:	I.BLK-PL094119.D	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PESTICIDE Group1
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094119.D	1		02/10/25	p1021025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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LOD = Limit of Detection

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

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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:	Spectra East Inc.		Date Collected:		
Project:	Outfall 001 - Orangetown Dis Permit 2025		Date Received:		
Client Sample ID:	PB166620BS		SDG No.:	Q1322	
Lab Sample ID:	PB166620BS		Matrix:	WATER	
Analytical Method:	608.3		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094112.D	1	02/07/25 11:55	02/10/25 13:18	PB166620

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.011		0.00060	0.0050	ug/L
58-89-9	gamma-BHC (Lindane)	0.011		0.00050	0.0050	ug/L
76-44-8	Heptachlor	0.011		0.00050	0.0050	ug/L
309-00-2	Aldrin	0.011		0.00040	0.0050	ug/L
319-85-7	beta-BHC	0.012		0.0014	0.0050	ug/L
319-86-8	delta-BHC	0.011	P	0.0015	0.0050	ug/L
1024-57-3	Heptachlor epoxide	0.011		0.00090	0.0050	ug/L
959-98-8	Endosulfan I	0.010		0.00050	0.0050	ug/L
5103-74-2	gamma-Chlordane	0.011		0.00060	0.0050	ug/L
5103-71-9	alpha-Chlordane	0.011		0.00060	0.0050	ug/L
72-55-9	4,4-DDE	0.011		0.00050	0.0050	ug/L
60-57-1	Dieldrin	0.011		0.00050	0.0050	ug/L
72-20-8	Endrin	0.011		0.00040	0.0050	ug/L
33213-65-9	Endosulfan II	0.011		0.00080	0.0050	ug/L
72-54-8	4,4-DDD	0.011		0.00090	0.0050	ug/L
50-29-3	4,4-DDT	0.012		0.00040	0.0050	ug/L
7421-93-4	Endrin aldehyde	0.011		0.0010	0.0050	ug/L
1031-07-8	Endosulfan Sulfate	0.011		0.00040	0.0050	ug/L
72-43-5	Methoxychlor	0.012		0.0011	0.0050	ug/L
53494-70-5	Endrin ketone	0.011		0.0010	0.0050	ug/L
8001-35-2	Toxaphene	0.015	U	0.015	0.10	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.7		60 - 140	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.8		60 - 140	104%	SPK: 20

Report of Analysis

Client:	Spectra East Inc.		Date Collected:	
Project:	Outfall 001 - Orangetown Dis Permit 2025		Date Received:	
Client Sample ID:	PB166620BS		SDG No.:	Q1322
Lab Sample ID:	PB166620BS		Matrix:	WATER
Analytical Method:	608.3		% Solid:	0 Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1
Extraction Type:			Injection Volume :	
GPC Factor :	1.0	PH :		
Prep Method :	5030			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094112.D	1	02/07/25 11:55	02/10/25 13:18	PB166620

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Report of Analysis

Client:	Spectra East Inc.	Date Collected:	
Project:	Outfall 001 - Orangetown Dis Permit 2025	Date Received:	
Client Sample ID:	PB166620BSD	SDG No.:	Q1322
Lab Sample ID:	PB166620BSD	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094113.D	1	02/07/25 11:55	02/10/25 14:24	PB166620

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.010		0.00060	0.0050	ug/L
58-89-9	gamma-BHC (Lindane)	0.010		0.00050	0.0050	ug/L
76-44-8	Heptachlor	0.011		0.00050	0.0050	ug/L
309-00-2	Aldrin	0.011		0.00040	0.0050	ug/L
319-85-7	beta-BHC	0.011		0.0014	0.0050	ug/L
319-86-8	delta-BHC	0.010	P	0.0015	0.0050	ug/L
1024-57-3	Heptachlor epoxide	0.011		0.00090	0.0050	ug/L
959-98-8	Endosulfan I	0.0085	P	0.00050	0.0050	ug/L
5103-74-2	gamma-Chlordane	0.011		0.00060	0.0050	ug/L
5103-71-9	alpha-Chlordane	0.011		0.00060	0.0050	ug/L
72-55-9	4,4-DDE	0.011		0.00050	0.0050	ug/L
60-57-1	Dieldrin	0.010		0.00050	0.0050	ug/L
72-20-8	Endrin	0.011		0.00040	0.0050	ug/L
33213-65-9	Endosulfan II	0.011		0.00080	0.0050	ug/L
72-54-8	4,4-DDD	0.011		0.00090	0.0050	ug/L
50-29-3	4,4-DDT	0.011		0.00040	0.0050	ug/L
7421-93-4	Endrin aldehyde	0.011		0.0010	0.0050	ug/L
1031-07-8	Endosulfan Sulfate	0.011		0.00040	0.0050	ug/L
72-43-5	Methoxychlor	0.012		0.0011	0.0050	ug/L
53494-70-5	Endrin ketone	0.011		0.0010	0.0050	ug/L
8001-35-2	Toxaphene	0.015	U	0.015	0.10	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		60 - 140	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		60 - 140	99%	SPK: 20

Report of Analysis

Client:	Spectra East Inc.		Date Collected:	
Project:	Outfall 001 - Orangetown Dis Permit 2025		Date Received:	
Client Sample ID:	PB166620BSD		SDG No.:	Q1322
Lab Sample ID:	PB166620BSD		Matrix:	WATER
Analytical Method:	608.3		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Decanted:	
Soil Aliquot Vol:		uL	Final Vol:	1000 uL
Extraction Type:			Test:	PESTICIDE Group1
GPC Factor :	1.0	PH :	Injection Volume :	
Prep Method :	5030			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094113.D	1	02/07/25 11:55	02/10/25 14:24	PB166620

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

U = Not Detected

LOQ = Limit of Quantitation

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LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

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N = Presumptive Evidence of a Compound

* = Values outside of QC limits

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CALIBRATION SUMMARY

A
B
C
D
E
F
G
H

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

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: SPEC01

Lab Code: CHEM **Case No.:** Q1322 **SAS No.:** Q1322 **SDG NO.:** Q1322

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: SPEC01

Lab Code: CHEM **Case No.:** Q1322 **SAS No.:** Q1322 **SDG NO.:** Q1322

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 = <u>PL093728.D</u>		CF 075 = <u>PL093729.D</u>			
CF 050 = <u>PL093730.D</u>		CF 025 = <u>PL093731.D</u>		CF 005 = <u>PL093732.D</u>			
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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

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		CALIBRATION FACTOR
				FROM	TO	
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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

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		CALIBRATION FACTOR
				FROM	TO	
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

CALIBRATION VERIFICATION SUMMARY

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

Continuing Calib Date: 02/10/2025 Initial Calibration Date(s): 01/21/2025 01/21/2025

Continuing Calib Time: 10:55 Initial Calibration Time(s): 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	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	6.34	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

CALIBRATION VERIFICATION SUMMARY

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

Continuing Calib Date: 02/10/2025 Initial Calibration Date(s): 01/21/2025 01/21/2025

Continuing Calib Time: 10:55 Initial Calibration Time(s): 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
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	4.13	4.14	4.04	4.24	0.01
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	0.01
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	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

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

Client Sample No.: CCAL01 Date Analyzed: 02/10/2025

Lab Sample No.: PSTDCCC050 Data File : PL094110.D Time Analyzed: 10:55

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.709	6.608	6.808	48.950	50.000	-2.1
4,4'-DDE	6.192	6.091	6.291	49.320	50.000	-1.4
4,4'-DDT	7.022	6.922	7.122	48.790	50.000	-2.4
Aldrin	5.257	5.156	5.356	47.390	50.000	-5.2
alpha-BHC	3.995	3.895	4.095	46.910	50.000	-6.2
alpha-Chlordane	6.018	5.917	6.117	46.130	50.000	-7.7
beta-BHC	4.525	4.425	4.625	47.190	50.000	-5.6
Decachlorobiphenyl	9.052	8.953	9.153	43.650	50.000	-12.7
delta-BHC	4.773	4.672	4.872	47.480	50.000	-5.0
Dieldrin	6.343	6.243	6.443	45.430	50.000	-9.1
Endosulfan I	6.069	5.967	6.167	45.640	50.000	-8.7
Endosulfan II	6.793	6.692	6.892	44.650	50.000	-10.7
Endosulfan sulfate	7.157	7.057	7.257	44.280	50.000	-11.4
Endrin	6.573	6.472	6.672	45.390	50.000	-9.2
Endrin aldehyde	6.923	6.823	7.023	45.070	50.000	-9.9
Endrin ketone	7.642	7.542	7.742	44.060	50.000	-11.9
gamma-BHC (Lindane)	4.327	4.227	4.427	47.030	50.000	-5.9
gamma-Chlordane	5.939	5.838	6.038	46.300	50.000	-7.4
Heptachlor	4.915	4.814	5.014	48.210	50.000	-3.6
Heptachlor epoxide	5.683	5.582	5.782	46.220	50.000	-7.6
Methoxychlor	7.498	7.398	7.598	49.980	50.000	0.0
Tetrachloro-m-xylene	3.539	3.439	3.639	46.630	50.000	-6.7

CALIBRATION VERIFICATION SUMMARY

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

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

Client Sample No.: CCAL01 Date Analyzed: 02/10/2025

Lab Sample No.: PSTDCCC050 Data File : PL094110.D Time Analyzed: 10:55

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.783	5.684	5.884	51.220	50.000	2.4
4,4'-DDE	5.228	5.130	5.330	50.350	50.000	0.7
4,4'-DDT	6.033	5.934	6.134	51.660	50.000	3.3
Aldrin	4.223	4.125	4.325	48.960	50.000	-2.1
alpha-BHC	3.276	3.177	3.377	49.190	50.000	-1.6
alpha-Chlordane	5.039	4.940	5.140	48.870	50.000	-2.3
beta-BHC	3.906	3.807	4.007	48.750	50.000	-2.5
Decachlorobiphenyl	7.908	7.810	8.010	46.580	50.000	-6.8
delta-BHC	4.134	4.036	4.236	48.990	50.000	-2.0
Dieldrin	5.359	5.261	5.461	48.360	50.000	-3.3
Endosulfan I	5.095	4.996	5.196	48.720	50.000	-2.6
Endosulfan II	5.930	5.831	6.031	48.600	50.000	-2.8
Endosulfan sulfate	6.332	6.233	6.433	47.730	50.000	-4.5
Endrin	5.635	5.536	5.736	49.300	50.000	-1.4
Endrin aldehyde	6.109	6.010	6.210	47.440	50.000	-5.1
Endrin ketone	6.837	6.739	6.939	47.970	50.000	-4.1
gamma-BHC (Lindane)	3.606	3.507	3.707	48.930	50.000	-2.1
gamma-Chlordane	4.975	4.877	5.077	49.450	50.000	-1.1
Heptachlor	3.944	3.845	4.045	48.150	50.000	-3.7
Heptachlor epoxide	4.726	4.627	4.827	48.580	50.000	-2.8
Methoxychlor	6.608	6.509	6.709	48.860	50.000	-2.3
Tetrachloro-m-xylene	2.774	2.674	2.874	48.150	50.000	-3.7

CALIBRATION VERIFICATION SUMMARY

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

Continuing Calib Date: 02/10/2025 Initial Calibration Date(s): 01/21/2025 01/21/2025

Continuing Calib Time: 16:07 Initial Calibration Time(s): 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	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	6.34	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

CALIBRATION VERIFICATION SUMMARY

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

Continuing Calib Date: 02/10/2025 Initial Calibration Date(s): 01/21/2025 01/21/2025

Continuing Calib Time: 16:07 Initial Calibration Time(s): 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
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	0.01
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

CALIBRATION VERIFICATION SUMMARY

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

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

Client Sample No.: CCAL02 Date Analyzed: 02/10/2025

Lab Sample No.: PSTDCCC050 Data File : PL094120.D Time Analyzed: 16:07

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.709	6.608	6.808	51.050	50.000	2.1
4,4'-DDE	6.191	6.091	6.291	50.240	50.000	0.5
4,4'-DDT	7.022	6.922	7.122	49.290	50.000	-1.4
Aldrin	5.256	5.156	5.356	48.590	50.000	-2.8
alpha-BHC	3.995	3.895	4.095	47.890	50.000	-4.2
alpha-Chlordane	6.018	5.917	6.117	47.170	50.000	-5.7
beta-BHC	4.525	4.425	4.625	47.840	50.000	-4.3
Decachlorobiphenyl	9.054	8.953	9.153	44.120	50.000	-11.8
delta-BHC	4.772	4.672	4.872	48.680	50.000	-2.6
Dieldrin	6.343	6.243	6.443	46.290	50.000	-7.4
Endosulfan I	6.069	5.967	6.167	46.610	50.000	-6.8
Endosulfan II	6.793	6.692	6.892	45.430	50.000	-9.1
Endosulfan sulfate	7.157	7.057	7.257	45.230	50.000	-9.5
Endrin	6.571	6.472	6.672	46.220	50.000	-7.6
Endrin aldehyde	6.923	6.823	7.023	45.580	50.000	-8.8
Endrin ketone	7.642	7.542	7.742	45.140	50.000	-9.7
gamma-BHC (Lindane)	4.327	4.227	4.427	48.170	50.000	-3.7
gamma-Chlordane	5.939	5.838	6.038	47.140	50.000	-5.7
Heptachlor	4.915	4.814	5.014	49.020	50.000	-2.0
Heptachlor epoxide	5.683	5.582	5.782	46.990	50.000	-6.0
Methoxychlor	7.499	7.398	7.598	50.950	50.000	1.9
Tetrachloro-m-xylene	3.538	3.439	3.639	47.950	50.000	-4.1

CALIBRATION VERIFICATION SUMMARY

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

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

Client Sample No.: CCAL02 Date Analyzed: 02/10/2025

Lab Sample No.: PSTDCCC050 Data File : PL094120.D Time Analyzed: 16:07

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.783	5.684	5.884	52.890	50.000	5.8
4,4'-DDE	5.228	5.130	5.330	52.410	50.000	4.8
4,4'-DDT	6.033	5.934	6.134	52.010	50.000	4.0
Aldrin	4.223	4.125	4.325	50.090	50.000	0.2
alpha-BHC	3.276	3.177	3.377	50.610	50.000	1.2
alpha-Chlordane	5.040	4.940	5.140	49.750	50.000	-0.5
beta-BHC	3.906	3.807	4.007	49.740	50.000	-0.5
Decachlorobiphenyl	7.908	7.810	8.010	47.540	50.000	-4.9
delta-BHC	4.135	4.036	4.236	50.090	50.000	0.2
Dieldrin	5.360	5.261	5.461	49.110	50.000	-1.8
Endosulfan I	5.095	4.996	5.196	47.330	50.000	-5.3
Endosulfan II	5.931	5.831	6.031	49.050	50.000	-1.9
Endosulfan sulfate	6.332	6.233	6.433	48.630	50.000	-2.7
Endrin	5.635	5.536	5.736	50.130	50.000	0.3
Endrin aldehyde	6.110	6.010	6.210	47.960	50.000	-4.1
Endrin ketone	6.838	6.739	6.939	48.480	50.000	-3.0
gamma-BHC (Lindane)	3.606	3.507	3.707	50.300	50.000	0.6
gamma-Chlordane	4.976	4.877	5.077	50.430	50.000	0.9
Heptachlor	3.944	3.845	4.045	49.930	50.000	-0.1
Heptachlor epoxide	4.726	4.627	4.827	49.700	50.000	-0.6
Methoxychlor	6.608	6.509	6.709	50.560	50.000	1.1
Tetrachloro-m-xylene	2.774	2.674	2.874	49.910	50.000	-0.2

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

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		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
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		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

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

Client Sample No. (PEM): PEM - PL094109.D Date Analyzed: 02/10/2025

Lab Sample No.(PEM): PEM Time Analyzed: 10:41

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	9.053	8.950	9.150	22.520	20.000	12.6
Tetrachloro-m-xylene	3.539	3.490	3.590	23.700	20.000	18.5
alpha-BHC	3.994	3.940	4.040	12.460	10.000	24.6
beta-BHC	4.526	4.480	4.580	12.740	10.000	27.4
gamma-BHC (Lindane)	4.327	4.280	4.380	12.190	10.000	21.9
Endrin	6.572	6.500	6.640	51.160	50.000	2.3
4,4'-DDT	7.023	6.950	7.090	112.440	100.000	12.4
Methoxychlor	7.499	7.430	7.570	259.730	250.000	3.9

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

Client Sample No. (PEM): PEM - PL094109.D Date Analyzed: 02/10/2025

Lab Sample No.(PEM): PEM Time Analyzed: 10:41

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	7.908	7.810	8.010	22.450	20.000	12.3
Tetrachloro-m-xylene	2.774	2.720	2.820	23.240	20.000	16.2
alpha-BHC	3.276	3.230	3.330	11.170	10.000	11.7
beta-BHC	3.906	3.860	3.960	12.590	10.000	25.9
gamma-BHC (Lindane)	3.606	3.560	3.660	10.900	10.000	9.0
Endrin	5.636	5.570	5.710	56.950	50.000	13.9
4,4'-DDT	6.034	5.960	6.100	131.610	100.000	31.6
Methoxychlor	6.608	6.540	6.680	271.950	250.000	8.8

Analytical Sequence

Client: Spectra East Inc.	SDG No.: Q1322
Project: Outfall 001 - Orangetown Dis Permit 2025	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 #
IBLK	IBLK	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
IBLK	IBLK	02/10/2025	10:28	PL094108.D	9.05	3.54
PEM	PEM	02/10/2025	10:41	PL094109.D	9.05	3.54
PSTDCCC050	PSTDCCC050	02/10/2025	10:55	PL094110.D	9.05	3.54
PB166620BL	PB166620BL	02/10/2025	11:18	PL094111.D	9.06	3.55
PB166620BS	PB166620BS	02/10/2025	13:18	PL094112.D	9.05	3.54
PB166620BSD	PB166620BSD	02/10/2025	14:24	PL094113.D	9.06	3.54
MANHOLE	Q1322-01	02/10/2025	14:43	PL094114.D	9.06	3.54
IBLK	IBLK	02/10/2025	15:53	PL094119.D	9.05	3.54
PSTDCCC050	PSTDCCC050	02/10/2025	16:07	PL094120.D	9.05	3.54

Analytical Sequence

Client: Spectra East Inc.	SDG No.: Q1322
Project: Outfall 001 - Orangetown Dis Permit 2025	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 #
IBLK	IBLK	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
PSTDICCC100	PSTDICCC100	01/21/2025	10:57	PL093728.D	7.91	2.78
PSTDICCC075	PSTDICCC075	01/21/2025	11:10	PL093729.D	7.91	2.77
PSTDICCC050	PSTDICCC050	01/21/2025	11:24	PL093730.D	7.91	2.77
PSTDICCC025	PSTDICCC025	01/21/2025	11:38	PL093731.D	7.91	2.77
PSTDICCC005	PSTDICCC005	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
IBLK	IBLK	02/10/2025	10:28	PL094108.D	7.91	2.77
PEM	PEM	02/10/2025	10:41	PL094109.D	7.91	2.77
PSTDCCC050	PSTDCCC050	02/10/2025	10:55	PL094110.D	7.91	2.77
PB166620BL	PB166620BL	02/10/2025	11:18	PL094111.D	7.91	2.77
PB166620BS	PB166620BS	02/10/2025	13:18	PL094112.D	7.91	2.77
PB166620BSD	PB166620BSD	02/10/2025	14:24	PL094113.D	7.91	2.77
MANHOLE	Q1322-01	02/10/2025	14:43	PL094114.D	7.91	2.77
IBLK	IBLK	02/10/2025	15:53	PL094119.D	7.91	2.77
PSTDCCC050	PSTDCCC050	02/10/2025	16:07	PL094120.D	7.91	2.77

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166620BS

Contract: SPEC01

Lab Code: CHEM

Case No.: Q1322

SAS No.: Q1322

SDG NO.: Q1322

Lab Sample ID: PB166620BS

Date(s) Analyzed: 02/10/2025

02/10/2025

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		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.71	6.66	6.76	0.013	13.9
	2	5.78	5.73	5.83	0.011	
4,4'-DDE	1	6.19	6.14	6.24	0.013	12.3
	2	5.23	5.18	5.28	0.011	
alpha-BHC	1	3.99	3.94	4.04	0.012	12.4
	2	3.28	3.23	3.33	0.011	
Aldrin	1	5.26	5.21	5.31	0.012	6.8
	2	4.22	4.17	4.27	0.011	
4,4'-DDT	1	7.02	6.97	7.07	0.013	11.3
	2	6.03	5.98	6.08	0.012	
alpha-Chlordane	1	6.02	5.97	6.07	0.012	6.8
	2	5.04	4.99	5.09	0.011	
beta-BHC	1	4.53	4.48	4.58	0.012	2.5
	2	3.91	3.86	3.96	0.012	
delta-BHC	1	4.77	4.72	4.82	0.014	30
	2	4.13	4.08	4.18	0.011	
Endosulfan I	1	6.07	6.02	6.12	0.012	19
	2	5.10	5.05	5.15	0.010	
Dieldrin	1	6.34	6.29	6.39	0.012	10.5
	2	5.36	5.31	5.41	0.011	
Endosulfan II	1	6.79	6.74	6.84	0.012	10.2
	2	5.93	5.88	5.98	0.011	
Endosulfan sulfate	1	7.16	7.11	7.21	0.012	7.7
	2	6.33	6.28	6.38	0.011	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.012	8.9
	2	3.61	3.56	3.66	0.011	
Heptachlor	1	4.91	4.86	4.96	0.013	16.5
	2	3.94	3.89	3.99	0.011	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166620BS

Contract: SPEC01

Lab Code: CHEM Case No.: Q1322

SAS No.: Q1322 SDG NO.: Q1322

Lab Sample ID: PB166620BS

Date(s) Analyzed: 02/10/2025 02/10/2025

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		CONCENTRATION	%RPD
			FROM	TO		
Heptachlor epoxide	1	5.68	5.63	5.73	0.013	12.4
	2	4.73	4.68	4.78	0.011	
Endrin	1	6.57	6.52	6.62	0.012	6.1
	2	5.63	5.58	5.68	0.011	
Endrin aldehyde	1	6.92	6.87	6.97	0.012	9.3
	2	6.11	6.06	6.16	0.011	
Methoxychlor	1	7.50	7.45	7.55	0.013	7
	2	6.61	6.56	6.66	0.012	
Endrin ketone	1	7.64	7.59	7.69	0.012	4.3
	2	6.84	6.79	6.89	0.011	
gamma-Chlordane	1	5.94	5.89	5.99	0.012	6.8
	2	4.98	4.93	5.03	0.011	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166620BSD

Contract: SPEC01

Lab Code: CHEM

Case No.: Q1322

SAS No.: Q1322

SDG NO.: Q1322

Lab Sample ID: PB166620BSD

Date(s) Analyzed: 02/10/2025

02/10/2025

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		CONCENTRATION	%RPD
			FROM	TO		
alpha-BHC	1	4.00	3.95	4.05	0.011	12.2
	2	3.28	3.23	3.33	0.010	
Aldrin	1	5.26	5.21	5.31	0.012	7.1
	2	4.22	4.17	4.27	0.011	
beta-BHC	1	4.53	4.48	4.58	0.011	1.8
	2	3.91	3.86	3.96	0.011	
4,4'-DDE	1	6.20	6.15	6.25	0.012	8.6
	2	5.23	5.18	5.28	0.011	
4,4'-DDD	1	6.71	6.66	6.76	0.012	12
	2	5.78	5.73	5.83	0.011	
4,4'-DDT	1	7.03	6.98	7.08	0.012	8.6
	2	6.03	5.98	6.08	0.011	
alpha-Chlordane	1	6.02	5.97	6.07	0.012	7.1
	2	5.04	4.99	5.09	0.011	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.011	8.5
	2	3.61	3.56	3.66	0.010	
Heptachlor	1	4.92	4.87	4.97	0.012	15.7
	2	3.95	3.90	4.00	0.011	
delta-BHC	1	4.78	4.73	4.83	0.013	28.3
	2	4.14	4.09	4.19	0.010	
Heptachlor epoxide	1	5.69	5.64	5.74	0.012	13.9
	2	4.73	4.68	4.78	0.011	
Endosulfan I	1	6.07	6.02	6.12	0.012	30.8
	2	5.10	5.05	5.15	0.0085	
Dieldrin	1	6.35	6.30	6.40	0.011	8.3
	2	5.36	5.31	5.41	0.010	
Endrin	1	6.58	6.53	6.63	0.011	3.5
	2	5.64	5.59	5.69	0.012	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166620BSD

Contract: SPEC01

Lab Code: CHEM

Case No.: Q1322

SAS No.: Q1322

SDG NO.: Q1322

Lab Sample ID: PB166620BSD

Date(s) Analyzed: 02/10/2025

02/10/2025

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		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan II	1	6.80	6.75	6.85	0.012	8.1
	2	5.93	5.88	5.98	0.011	
Endrin aldehyde	1	6.93	6.88	6.98	0.011	5.4
	2	6.11	6.06	6.16	0.011	
Endosulfan sulfate	1	7.16	7.11	7.21	0.012	8.1
	2	6.33	6.28	6.38	0.011	
Methoxychlor	1	7.50	7.45	7.55	0.012	1.7
	2	6.61	6.56	6.66	0.012	
Endrin ketone	1	7.65	7.60	7.70	0.011	1.8
	2	6.84	6.79	6.89	0.011	
gamma-Chlordane	1	5.94	5.89	5.99	0.011	3.6
	2	4.98	4.93	5.03	0.011	