

## LAB CHRONICLE

|                 |                      |                   |                                       |
|-----------------|----------------------|-------------------|---------------------------------------|
| <b>OrderID:</b> | Q1235                | <b>OrderDate:</b> | 1/30/2025 12:15:00 PM                 |
| <b>Client:</b>  | RU2 Engineering, LLC | <b>Project:</b>   | NYCDDC SANTWOBR Brooklyn Bridge BBMCR |
| <b>Contact:</b> | Rutu Manani          | <b>Location:</b>  | E11,VOA Ref. #2 Soil                  |

| LabID    | ClientID        | Matrix | Test                    | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|-----------------|--------|-------------------------|--------|-------------|-----------|-----------|----------|
| Q1235-01 | JPP-51.2-012925 | SOIL   | Diesel Range Organics   | 8015D  | 01/29/25    | 01/31/25  | 01/31/25  | 01/30/25 |
|          |                 |        | Gasoline Range Organics | 8015D  |             |           | 01/31/25  |          |
| Q1235-03 | JPP-51.2-012925 | SOIL   | Pesticide-TCL           | 8081B  | 01/29/25    | 01/31/25  | 01/31/25  | 01/30/25 |
|          |                 |        |                         |        |             |           |           |          |
| Q1235-04 | JPP-51.2-012925 | TCLP   | TCLP Herbicide          | 8151A  | 01/29/25    | 01/31/25  | 02/01/25  | 01/30/25 |
|          |                 |        | TCLP Pesticide          | 8081B  |             |           | 02/03/25  |          |
| Q1235-05 | JPP-16.1-012925 | SOIL   | Diesel Range Organics   | 8015D  | 01/29/25    | 01/31/25  | 01/31/25  | 01/30/25 |
|          |                 |        | Gasoline Range Organics | 8015D  |             |           | 01/31/25  |          |
| Q1235-07 | JPP-16.1-012925 | SOIL   | Pesticide-TCL           | 8081B  | 01/29/25    | 01/31/25  | 01/31/25  | 01/30/25 |
|          |                 |        |                         |        |             |           |           |          |
| Q1235-08 | JPP-16.1-012925 | TCLP   | TCLP Herbicide          | 8151A  | 01/29/25    | 01/31/25  | 02/01/25  | 01/30/25 |
|          |                 |        | TCLP Pesticide          | 8081B  |             |           | 02/03/25  |          |

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q1235

**Order ID:** Q1235

**Client:** RU2 Engineering, LLC

**Project ID:** NYCDDC SANTWOBR Brooklyn Bri

| Sample ID                   | Client ID       | Matrix | Parameter       | Concentration | C  | MDL  | RDL  | Units |
|-----------------------------|-----------------|--------|-----------------|---------------|----|------|------|-------|
| Client ID : JPP-51.2-012925 |                 |        |                 |               |    |      |      |       |
| Q1235-03                    | JPP-51.2-012925 | SOIL   | Heptachlor      | 1.10          | J  | 0.19 | 1.90 | ug/kg |
| Q1235-03                    | JPP-51.2-012925 | SOIL   | Aldrin          | 6.20          | P  | 0.15 | 1.90 | ug/kg |
| Q1235-03                    | JPP-51.2-012925 | SOIL   | 4,4-DDE         | 2.20          |    | 0.14 | 1.90 | ug/kg |
| Q1235-03                    | JPP-51.2-012925 | SOIL   | 4,4-DDD         | 0.85          | JP | 0.21 | 1.90 | ug/kg |
| Q1235-03                    | JPP-51.2-012925 | SOIL   | 4,4-DDT         | 4.40          |    | 0.19 | 1.90 | ug/kg |
| Q1235-03                    | JPP-51.2-012925 | SOIL   | alpha-Chlordane | 6.00          | P  | 0.19 | 1.90 | ug/kg |
| Q1235-03                    | JPP-51.2-012925 | SOIL   | gamma-Chlordane | 3.50          | P  | 0.21 | 1.90 | ug/kg |
| Total Concentration:        |                 |        |                 | 24.250        |    |      |      |       |
| Client ID : JPP-16.1-012925 |                 |        |                 |               |    |      |      |       |
| Q1235-07                    | JPP-16.1-012925 | SOIL   | Heptachlor      | 0.58          | JP | 0.19 | 1.90 | ug/kg |
| Q1235-07                    | JPP-16.1-012925 | SOIL   | Aldrin          | 0.58          | JP | 0.16 | 1.90 | ug/kg |
| Q1235-07                    | JPP-16.1-012925 | SOIL   | 4,4-DDE         | 1.40          | JP | 0.15 | 1.90 | ug/kg |
| Q1235-07                    | JPP-16.1-012925 | SOIL   | Endrin          | 0.32          | JP | 0.18 | 1.90 | ug/kg |
| Q1235-07                    | JPP-16.1-012925 | SOIL   | 4,4-DDT         | 0.94          | JP | 0.19 | 1.90 | ug/kg |
| Q1235-07                    | JPP-16.1-012925 | SOIL   | alpha-Chlordane | 2.20          | P  | 0.19 | 1.90 | ug/kg |
| Q1235-07                    | JPP-16.1-012925 | SOIL   | gamma-Chlordane | 1.30          | JP | 0.21 | 1.90 | ug/kg |
| Total Concentration:        |                 |        |                 | 7.320         |    |      |      |       |



# SAMPLE DATA

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    | 01/29/25      |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     | 01/30/25      |
| Client Sample ID:  | JPP-51.2-012925                       | SDG No.:           | Q1235         |
| Lab Sample ID:     | Q1235-03                              | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 91.8          |
| 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 |
| PL093951.D        | 1         | 01/31/25 08:15 | 01/31/25 18:07 | PB166413      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 319-84-6          | alpha-BHC            | 1.90  | U         | 0.20     | 1.90       | ug/kg             |
| 319-85-7          | beta-BHC             | 1.90  | U         | 0.53     | 1.90       | ug/kg             |
| 319-86-8          | delta-BHC            | 1.90  | U         | 0.51     | 1.90       | ug/kg             |
| 58-89-9           | gamma-BHC (Lindane)  | 1.90  | U         | 0.21     | 1.90       | ug/kg             |
| 76-44-8           | Heptachlor           | 1.10  | J         | 0.19     | 1.90       | ug/kg             |
| 309-00-2          | Aldrin               | 6.20  | P         | 0.15     | 1.90       | ug/kg             |
| 1024-57-3         | Heptachlor epoxide   | 1.90  | U         | 0.25     | 1.90       | ug/kg             |
| 959-98-8          | Endosulfan I         | 1.90  | U         | 0.19     | 1.90       | ug/kg             |
| 60-57-1           | Dieldrin             | 1.90  | U         | 0.16     | 1.90       | ug/kg             |
| 72-55-9           | 4,4-DDE              | 2.20  |           | 0.14     | 1.90       | ug/kg             |
| 72-20-8           | Endrin               | 1.90  | U         | 0.17     | 1.90       | ug/kg             |
| 33213-65-9        | Endosulfan II        | 1.90  | U         | 0.33     | 1.90       | ug/kg             |
| 72-54-8           | 4,4-DDD              | 0.85  | JP        | 0.21     | 1.90       | ug/kg             |
| 1031-07-8         | Endosulfan Sulfate   | 1.90  | U         | 0.14     | 1.90       | ug/kg             |
| 50-29-3           | 4,4-DDT              | 4.40  |           | 0.19     | 1.90       | ug/kg             |
| 72-43-5           | Methoxychlor         | 1.90  | U         | 0.41     | 1.90       | ug/kg             |
| 53494-70-5        | Endrin ketone        | 1.90  | U         | 0.24     | 1.90       | ug/kg             |
| 7421-93-4         | Endrin aldehyde      | 1.90  | U         | 0.42     | 1.90       | ug/kg             |
| 5103-71-9         | alpha-Chlordane      | 6.00  | P         | 0.19     | 1.90       | ug/kg             |
| 5103-74-2         | gamma-Chlordane      | 3.50  | P         | 0.21     | 1.90       | ug/kg             |
| 8001-35-2         | Toxaphene            | 35.9  | U         | 5.70     | 35.9       | ug/kg             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 14.4  |           | 10 - 148 | 72%        | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 15.4  |           | 10 - 159 | 77%        | SPK: 20           |

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    | 01/29/25      |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     | 01/30/25      |
| Client Sample ID:  | JPP-51.2-012925                       | SDG No.:           | Q1235         |
| Lab Sample ID:     | Q1235-03                              | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 91.8          |
| Sample Wt/Vol:     | 30.01                                 | Units:             | g             |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | SW3541B                               | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL093951.D        | 1         | 01/31/25 08:15 | 01/31/25 18:07 | 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

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    | 01/29/25      |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     | 01/30/25      |
| Client Sample ID:  | JPP-16.1-012925                       | SDG No.:           | Q1235         |
| Lab Sample ID:     | Q1235-07                              | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 89.2          |
| 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 |
| PL093952.D        | 1         | 01/31/25 08:15 | 01/31/25 18:20 | PB166413      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 319-84-6          | alpha-BHC            | 1.90  | U         | 0.20     | 1.90       | ug/kg             |
| 319-85-7          | beta-BHC             | 1.90  | U         | 0.55     | 1.90       | ug/kg             |
| 319-86-8          | delta-BHC            | 1.90  | U         | 0.53     | 1.90       | ug/kg             |
| 58-89-9           | gamma-BHC (Lindane)  | 1.90  | U         | 0.21     | 1.90       | ug/kg             |
| 76-44-8           | Heptachlor           | 0.58  | JP        | 0.19     | 1.90       | ug/kg             |
| 309-00-2          | Aldrin               | 0.58  | JP        | 0.16     | 1.90       | ug/kg             |
| 1024-57-3         | Heptachlor epoxide   | 1.90  | U         | 0.26     | 1.90       | ug/kg             |
| 959-98-8          | Endosulfan I         | 1.90  | U         | 0.19     | 1.90       | ug/kg             |
| 60-57-1           | Dieldrin             | 1.90  | U         | 0.17     | 1.90       | ug/kg             |
| 72-55-9           | 4,4-DDE              | 1.40  | JP        | 0.15     | 1.90       | ug/kg             |
| 72-20-8           | Endrin               | 0.32  | JP        | 0.18     | 1.90       | ug/kg             |
| 33213-65-9        | Endosulfan II        | 1.90  | U         | 0.34     | 1.90       | ug/kg             |
| 72-54-8           | 4,4-DDD              | 1.90  | U         | 0.21     | 1.90       | ug/kg             |
| 1031-07-8         | Endosulfan Sulfate   | 1.90  | U         | 0.15     | 1.90       | ug/kg             |
| 50-29-3           | 4,4-DDT              | 0.94  | JP        | 0.19     | 1.90       | ug/kg             |
| 72-43-5           | Methoxychlor         | 1.90  | U         | 0.43     | 1.90       | ug/kg             |
| 53494-70-5        | Endrin ketone        | 1.90  | U         | 0.25     | 1.90       | ug/kg             |
| 7421-93-4         | Endrin aldehyde      | 1.90  | U         | 0.44     | 1.90       | ug/kg             |
| 5103-71-9         | alpha-Chlordane      | 2.20  | P         | 0.19     | 1.90       | ug/kg             |
| 5103-74-2         | gamma-Chlordane      | 1.30  | JP        | 0.21     | 1.90       | ug/kg             |
| 8001-35-2         | Toxaphene            | 37.0  | U         | 5.80     | 37.0       | ug/kg             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 12.2  |           | 10 - 148 | 61%        | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 13.5  |           | 10 - 159 | 67%        | SPK: 20           |

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    | 01/29/25      |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     | 01/30/25      |
| Client Sample ID:  | JPP-16.1-012925                       | SDG No.:           | Q1235         |
| Lab Sample ID:     | Q1235-07                              | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 89.2          |
| Sample Wt/Vol:     | 30.02                                 | Units:             | g             |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | SW3541B                               | Decanted:          |               |
|                    |                                       | Final Vol:         | 10000         |
|                    |                                       | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL093952.D        | 1         | 01/31/25 08:15 | 01/31/25 18:20 | PB166413      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

### Comments:

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Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

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.: **Q1235**

Client: **RU2 Engineering, LLC**

Analytical Method: **8081B**

| 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-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  |
| Q1235-03         | JPP-51.2-012925  | Decachlorobiphenyl   | 1      | 20    | 14.4   | 72  |      | 10     | 148  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 13.9   | 69  |      | 10     | 159  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 10.6   | 53  |      | 10     | 148  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 15.4   | 77  |      | 10     | 159  |
| Q1235-07         | JPP-16.1-012925  | Decachlorobiphenyl   | 1      | 20    | 12.2   | 61  |      | 10     | 148  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 13.4   | 67  |      | 10     | 159  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 8.82   | 44  |      | 10     | 148  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 13.5   | 67  |      | 10     | 159  |
| 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  |
| I.BLK-PL093970.D | PIBLK-PL093970.D | Decachlorobiphenyl   | 1      | 20    | 19.3   | 96  |      | 43     | 140  |

**Surrogate Summary**

**SDG No.:** Q1235

**Client:** RU2 Engineering, LLC

**Analytical Method:** 8081B

| Lab Sample ID    | Client ID        | Parameter            | Column | Spike | Result | Rec | Qual | Limits |      |
|------------------|------------------|----------------------|--------|-------|--------|-----|------|--------|------|
|                  |                  |                      |        |       |        |     |      | Low    | High |
| I.BLK-PL093970.D | PIBLK-PL093970.D | 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  |

# Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1235

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 | Low | Limits High | 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         |     |

### Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1235

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 | Low | Limits High | RPD |
|----------------------------------|---------------------|-------|---------------|--------|-------|-----|----------|-----|----------|-----|-------------|-----|
| Client Sample ID:<br>Q1239-10MSD | 357MSD              |       |               |        |       |     |          |     |          |     |             |     |
|                                  | 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  |

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

SW-846

SDG No.: Q1235

Client: RU2 Engineering, LLC

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

| Lab Sample ID | Parameter           | Spike | Result | Units | Rec | RPD | Qual | RPD  |     | Limits |     |
|---------------|---------------------|-------|--------|-------|-----|-----|------|------|-----|--------|-----|
|               |                     |       |        |       |     |     |      | Qual | Low | 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    |     |

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166413BL

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235

SAS No.: Q1235 SDG NO.: Q1235

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<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED 1 | DATE<br>ANALYZED 2 |
|-------------------|------------------|----------------|--------------------|--------------------|
| PB166413BS        | PB166413BS       | PL093941.D     | 01/31/2025         | 01/31/2025         |
| JPP-51.2-012925   | Q1235-03         | PL093951.D     | 01/31/2025         | 01/31/2025         |
| JPP-16.1-012925   | Q1235-07         | PL093952.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         |

COMMENTS: \_\_\_\_\_



# QC SAMPLE DATA

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    |               |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     |               |
| Client Sample ID:  | PB166413BL                            | SDG No.:           | Q1235         |
| Lab Sample ID:     | PB166413BL                            | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 100           |
| Sample Wt/Vol:     | 30.02 Units: g                        | Decanted:          |               |
| Soil Aliquot Vol:  | uL                                    | Final Vol:         | 10000 uL      |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | Injection Volume : |               |
| 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) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 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             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 24.6  |           | 10 - 148 | 123%       | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 23.8  |           | 10 - 159 | 119%       | SPK: 20           |

## Report of Analysis

|                    |                                       |                    |                    |
|--------------------|---------------------------------------|--------------------|--------------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    |                    |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     |                    |
| Client Sample ID:  | PB166413BL                            | SDG No.:           | Q1235              |
| 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:  |                                       | 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

## 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.:           | Q1235         |
| Lab Sample ID:     | I.BLK-PL093725.D                      | Matrix:            | WATER         |
| Analytical Method: | SW8081                                | % Solid:           | 0             |
| Sample Wt/Vol:     | 1000 Units: mL                        | Decanted:          |               |
| Soil Aliquot Vol:  | uL                                    | Final Vol:         | 10000 uL      |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | Injection Volume : |               |
| 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   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 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    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 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:            | 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.:           | Q1235         |
| Lab Sample ID:     | I.BLK-PL093725.D                      | Matrix:            | WATER         |
| Analytical Method: | SW8081                                | % Solid:           | 0             |
| Sample Wt/Vol:     | 1000                                  | Units:             | mL            |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | 3510C                                 | Decanted:          |               |
|                    |                                       | Final Vol:         | 10000         |
|                    |                                       | 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 |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    | 01/31/25      |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     | 01/31/25      |
| Client Sample ID:  | PIBLK-PL093928.D                      | SDG No.:           | Q1235         |
| Lab Sample ID:     | I.BLK-PL093928.D                      | Matrix:            | WATER         |
| Analytical Method: | SW8081                                | % Solid:           | 0             |
| Sample Wt/Vol:     | 1000 Units: mL                        | Decanted:          |               |
| Soil Aliquot Vol:  | uL                                    | Final Vol:         | 10000 uL      |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | Injection Volume : |               |
| 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   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 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    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 20.6  |           | 43 - 140 | 103%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 21.1  |           | 77 - 126 | 106%       | SPK: 20 |

## 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.:           | Q1235         |
| Lab Sample ID:     | I.BLK-PL093928.D                      | Matrix:            | WATER         |
| Analytical Method: | SW8081                                | % Solid:           | 0             |
| Sample Wt/Vol:     | 1000                                  | Units:             | mL            |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | 3510C                                 | Injection Volume : |               |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| 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:

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    | 01/31/25      |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     | 01/31/25      |
| Client Sample ID:  | PIBLK-PL093942.D                      | SDG No.:           | Q1235         |
| Lab Sample ID:     | I.BLK-PL093942.D                      | Matrix:            | WATER         |
| Analytical Method: | SW8081                                | % Solid:           | 0             |
| Sample Wt/Vol:     | 1000 Units: mL                        | Decanted:          |               |
| Soil Aliquot Vol:  | uL                                    | Final Vol:         | 10000 uL      |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | Injection Volume : |               |
| 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   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 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    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 22.6  |           | 43 - 140 | 113%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 21.7  |           | 77 - 126 | 109%       | SPK: 20 |

## 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.:           | Q1235         |
| Lab Sample ID:     | I.BLK-PL093942.D                      | Matrix:            | WATER         |
| Analytical Method: | SW8081                                | % Solid:           | 0             |
| Sample Wt/Vol:     | 1000                                  | Units:             | mL            |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | 3510C                                 | Injection Volume : |               |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| 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:

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LOD = Limit of Detection

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    | 01/31/25      |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     | 01/31/25      |
| Client Sample ID:  | PIBLK-PL093957.D                      | SDG No.:           | Q1235         |
| Lab Sample ID:     | I.BLK-PL093957.D                      | Matrix:            | WATER         |
| Analytical Method: | SW8081                                | % Solid:           | 0             |
| Sample Wt/Vol:     | 1000 Units: mL                        | Decanted:          |               |
| Soil Aliquot Vol:  | uL                                    | Final Vol:         | 10000 uL      |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | Injection Volume : |               |
| 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   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 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    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 20.4  |           | 43 - 140 | 102%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 22.0  |           | 77 - 126 | 110%       | SPK: 20 |

## 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.:           | Q1235         |
| Lab Sample ID:     | I.BLK-PL093957.D                      | Matrix:            | WATER         |
| Analytical Method: | SW8081                                | % Solid:           | 0             |
| Sample Wt/Vol:     | 1000                                  | Units:             | mL            |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | 3510C                                 | Injection Volume : |               |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| 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 |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

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\* = Values outside of QC limits

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() = Laboratory InHouse Limit

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    | 01/31/25      |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     | 01/31/25      |
| Client Sample ID:  | PIBLK-PL093970.D                      | SDG No.:           | Q1235         |
| Lab Sample ID:     | I.BLK-PL093970.D                      | Matrix:            | WATER         |
| Analytical Method: | SW8081                                | % Solid:           | 0             |
| Sample Wt/Vol:     | 1000                                  | Units:             | mL            |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | 3510C                                 | Decanted:          |               |
|                    |                                       | Final Vol:         | 10000         |
|                    |                                       | Injection Volume : |               |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| 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   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 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    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 19.3  |           | 43 - 140 | 96%        | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 21.3  |           | 77 - 126 | 107%       | SPK: 20 |

## 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.:           | Q1235         |
| Lab Sample ID:     | I.BLK-PL093970.D                      | Matrix:            | WATER         |
| Analytical Method: | SW8081                                | % Solid:           | 0             |
| Sample Wt/Vol:     | 1000                                  | Units:             | mL            |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | 3510C                                 | Injection Volume : |               |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| 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:

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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

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    |               |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     |               |
| Client Sample ID:  | PB166413BS                            | SDG No.:           | Q1235         |
| Lab Sample ID:     | PB166413BS                            | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 100           |
| Sample Wt/Vol:     | 30.01 Units: g                        | Decanted:          |               |
| Soil Aliquot Vol:  | uL                                    | Final Vol:         | 10000 uL      |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | Injection Volume : |               |
| 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) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 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             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 21.7  |           | 10 - 148 | 109%       | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 20.0  |           | 10 - 159 | 100%       | SPK: 20           |

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    |               |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     |               |
| Client Sample ID:  | PB166413BS                            | SDG No.:           | Q1235         |
| Lab Sample ID:     | PB166413BS                            | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 100           |
| Sample Wt/Vol:     | 30.01                                 | Units:             | g             |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Decanted:          |               |
| GPC Factor :       | 1.0                                   | Final Vol:         | 10000         |
| PH :               |                                       | Test:              | Pesticide-TCL |
| Prep Method :      | SW3541B                               | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| 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

## 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.:           | Q1235         |
| Lab Sample ID:     | Q1239-10MS                            | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 84.8          |
| Sample Wt/Vol:     | 30.04                                 | Units:             | g             |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | SW3541B                               | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| 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) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 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             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 14.9  |           | 10 - 148 | 75%        | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 19.1  |           | 10 - 159 | 95%        | SPK: 20           |

## 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.:           | Q1235         |
| Lab Sample ID:     | Q1239-10MS                            | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 84.8          |
| Sample Wt/Vol:     | 30.04                                 | Units:             | g             |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | SW3541B                               | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| 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

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

## Report of Analysis

|                    |                                       |                    |               |
|--------------------|---------------------------------------|--------------------|---------------|
| Client:            | RU2 Engineering, LLC                  | Date Collected:    | 01/30/25      |
| Project:           | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received:     | 01/30/25      |
| Client Sample ID:  | 357MSD                                | SDG No.:           | Q1235         |
| Lab Sample ID:     | Q1239-10MSD                           | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 84.8          |
| 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) |
|-------------------|----------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                      |       |           |          |            |                   |
| 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             |
| <b>SURROGATES</b> |                      |       |           |          |            |                   |
| 2051-24-3         | Decachlorobiphenyl   | 15.4  |           | 10 - 148 | 77%        | SPK: 20           |
| 877-09-8          | Tetrachloro-m-xylene | 18.7  |           | 10 - 159 | 93%        | SPK: 20           |

## 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.:           | Q1235         |
| Lab Sample ID:     | Q1239-10MSD                           | Matrix:            | SOIL          |
| Analytical Method: | SW8081                                | % Solid:           | 84.8          |
| Sample Wt/Vol:     | 30.01                                 | Units:             | g             |
| Soil Aliquot Vol:  |                                       |                    | uL            |
| Extraction Type:   |                                       | Test:              | Pesticide-TCL |
| GPC Factor :       | 1.0                                   | PH :               |               |
| Prep Method :      | SW3541B                               | Injection Volume : |               |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| 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 |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

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() = Laboratory InHouse Limit



# CALIBRATION SUMMARY

A  
B  
C  
D  
E  
F  
G  
H

**Calibration Times:**                      **10:57**                      **11:51**

LAB FILE ID: RT 100 = PL093728.D RT 075 = PL093729.D  
RT 050 = PL093730.D RT 025 = PL093731.D RT 005 = PL093732.D

[illegible]



**CALIBRATION FACTOR OF INITIAL CALIBRATION**

**Contract:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1235 **SAS No.:** Q1235 **SDG NO.:** Q1235

**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)

| <b>LAB FILE ID:</b>               |            | <b>CF 100 =</b> <u>PL093728.D</u> |            | <b>CF 075 =</b> <u>PL093729.D</u> |            |            |       |
|-----------------------------------|------------|-----------------------------------|------------|-----------------------------------|------------|------------|-------|
| <b>CF 050 =</b> <u>PL093730.D</u> |            | <b>CF 025 =</b> <u>PL093731.D</u> |            | <b>CF 005 =</b> <u>PL093732.D</u> |            |            |       |
| 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:** RUTW01

**Lab Code:** CHEM **Case No.:** Q1235 **SAS No.:** Q1235 **SDG NO.:** Q1235

**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     |

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

Instrument ID: ECD\_L Date(s) Analyzed: 01/21/2025 01/21/2025

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

| COMPOUND  | AMOUNT<br>(ng) | PEAK | RT   | RT WINDOW |      | CALIBRATION<br>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: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

Instrument ID: ECD\_L Date(s) Analyzed: 01/21/2025 01/21/2025

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

| COMPOUND  | AMOUNT<br>(ng) | PEAK | RT   | RT WINDOW |      | CALIBRATION<br>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: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| 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       |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>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           | 3.95       | 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       |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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 |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| 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  |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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 |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| 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  |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| 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       |

# CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>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 | 0.00       |
| 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       |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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 |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|----------------------|-------|-----------|-------|--------------------|-------------------|------|
|                      |       | FROM      | TO    |                    |                   |      |
| 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 |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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 |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| 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  |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| 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       |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>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           | 3.95       | 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       |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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 |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|----------------------|-------|-----------|-------|--------------------|-------------------|------|
|                      |       | FROM      | TO    |                    |                   |      |
| 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 |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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 |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| 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   |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| 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       |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>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           | 3.95       | 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       |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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 |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| 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   |

### CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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 |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| 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   |

**PESTICIDE CALIBRATION VERIFICATION SUMMARY**

**Contract:** RUTW01

**Lab Code:** CHEM      **Case No.:** Q1235      **SAS No.:** Q1235      **SDG NO.:** Q1235

**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<br>AMOUNT(ng) | NOM<br>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<br>AMOUNT(ng) | NOM<br>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: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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

**PESTICIDE CALIBRATION VERIFICATION SUMMARY**

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

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

## Analytical Sequence

|                                                    |                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------|
| <b>Client:</b> RU2 Engineering, LLC                | <b>SDG No.:</b> Q1235                                                        |
| <b>Project:</b> NYCDDC SANTWOBR Brooklyn Bridge BI | <b>Instrument ID:</b> ECD_L                                                  |
| <b>GC Column:</b> ZB-MR1                           | <b>ID:</b> 0.32 (mm) <b>Inst. Calib. Date(s):</b> 01/21/2025      01/21/2025 |

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | DATE<br>ANALYZED | TIME<br>ANALYZED | DATAFILE   | DCB<br>RT # | TCX<br>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             | 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        |
| IBLK              | IBLK             | 01/31/2025       | 14:57            | PL093942.D | 9.06        | 3.54        |
| PSTDCCC050        | PSTDCCC050       | 01/31/2025       | 15:10            | PL093943.D | 9.06        | 3.54        |
| JPP-51.2-012925   | Q1235-03         | 01/31/2025       | 18:07            | PL093951.D | 9.06        | 3.54        |
| JPP-16.1-012925   | Q1235-07         | 01/31/2025       | 18:20            | PL093952.D | 9.05        | 3.54        |
| IBLK              | IBLK             | 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        |
| IBLK              | IBLK             | 01/31/2025       | 22:43            | PL093970.D | 9.06        | 3.54        |
| PSTDCCC050        | PSTDCCC050       | 02/01/2025       | 00:57            | PL093971.D | 9.06        | 3.54        |

## Analytical Sequence

|                                                    |                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------|
| <b>Client:</b> RU2 Engineering, LLC                | <b>SDG No.:</b> Q1235                                                        |
| <b>Project:</b> NYCDDC SANTWOBR Brooklyn Bridge BI | <b>Instrument ID:</b> ECD_L                                                  |
| <b>GC Column:</b> ZB-MR2                           | <b>ID:</b> 0.32 (mm) <b>Inst. Calib. Date(s):</b> 01/21/2025      01/21/2025 |

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | DATE<br>ANALYZED | TIME<br>ANALYZED | DATAFILE   | DCB<br>RT # | TCX<br>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        |
| 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        |
| IBLK              | IBLK             | 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        |
| IBLK              | IBLK             | 01/31/2025       | 14:57            | PL093942.D | 7.91        | 2.77        |
| PSTDCCC050        | PSTDCCC050       | 01/31/2025       | 15:10            | PL093943.D | 7.91        | 2.77        |
| JPP-51.2-012925   | Q1235-03         | 01/31/2025       | 18:07            | PL093951.D | 7.91        | 2.77        |
| JPP-16.1-012925   | Q1235-07         | 01/31/2025       | 18:20            | PL093952.D | 7.91        | 2.77        |
| IBLK              | IBLK             | 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        |
| IBLK              | IBLK             | 01/31/2025       | 22:43            | PL093970.D | 7.91        | 2.77        |
| PSTDCCC050        | PSTDCCC050       | 02/01/2025       | 00:57            | PL093971.D | 7.91        | 2.77        |

### COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

357MS

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235

SAS No.: Q1235 SDG NO.: Q1235

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 |      | CONCENTRATION | %RPD |
|---------------------|-----|------|-----------|------|---------------|------|
|                     |     |      | FROM      | TO   |               |      |
| 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          |      |

### COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

357MS

Contract: RUTW01

Lab Code: CHEM

Case No.: Q1235

SAS No.: Q1235

SDG NO.: Q1235

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 |      | CONCENTRATION | %RPD |
|-----------------|-----|------|-----------|------|---------------|------|
|                 |     |      | FROM      | TO   |               |      |
| 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          |      |

# COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

357MSD

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235

SAS No.: Q1235 SDG NO.: Q1235

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 |      | CONCENTRATION | %RPD |
|---------------------|-----|------|-----------|------|---------------|------|
|                     |     |      | FROM      | TO   |               |      |
| 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          |      |

### COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

357MSD

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235

SAS No.: Q1235 SDG NO.: Q1235

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 |      | CONCENTRATION | %RPD |
|--------------------|-----|------|-----------|------|---------------|------|
|                    |     |      | FROM      | TO   |               |      |
| 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          |      |

**COMPOUND DETECTION SUMMARY**

**CLIENT SAMPLE NO.**

**JPP-16.1-012925**

**Contract:** RUTW01

**Lab Code:** CHEM

**Case No.:** Q1235

**SAS No.:** Q1235

**SDG NO.:** Q1235

**Lab Sample ID:** Q1235-07

**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 |      | CONCENTRATION | %RPD |
|-----------------|-----|------|-----------|------|---------------|------|
|                 |     |      | FROM      | TO   |               |      |
| 4,4'-DDT        | 1   | 7.02 | 6.97      | 7.07 | 0.41          | 77.3 |
|                 | 2   | 6.03 | 5.98      | 6.08 | 0.94          |      |
| Heptachlor      | 1   | 4.91 | 4.86      | 4.96 | 0.58          | 46.7 |
|                 | 2   | 3.94 | 3.89      | 3.99 | 0.36          |      |
| Aldrin          | 1   | 5.25 | 5.20      | 5.30 | 0.41          | 32.5 |
|                 | 2   | 4.22 | 4.17      | 4.27 | 0.58          |      |
| gamma-Chlordane | 1   | 5.94 | 5.89      | 5.99 | 1.30          | 73   |
|                 | 2   | 4.98 | 4.93      | 5.03 | 0.61          |      |
| alpha-Chlordane | 1   | 6.02 | 5.97      | 6.07 | 2.20          | 79.8 |
|                 | 2   | 5.04 | 4.99      | 5.09 | 0.94          |      |
| 4,4'-DDE        | 1   | 6.19 | 6.14      | 6.24 | 0.79          | 55.9 |
|                 | 2   | 5.23 | 5.18      | 5.28 | 1.40          |      |
| Endrin          | 1   | 6.57 | 6.52      | 6.62 | 0.22          | 36.7 |
|                 | 2   | 5.64 | 5.59      | 5.69 | 0.32          |      |

### COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

JPP-51.2-012925

Contract: RUTW01

Lab Code: CHEM

Case No.: Q1235

SAS No.: Q1235

SDG NO.: Q1235

Lab Sample ID: Q1235-03

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 |      | CONCENTRATION | %RPD |
|-----------------|-----|------|-----------|------|---------------|------|
|                 |     |      | FROM      | TO   |               |      |
| 4,4'-DDD        | 1   | 6.71 | 6.66      | 6.76 | 0.85          | 61.8 |
|                 | 2   | 5.78 | 5.73      | 5.83 | 0.45          |      |
| 4,4'-DDT        | 1   | 7.02 | 6.97      | 7.07 | 4.40          | 22.8 |
|                 | 2   | 6.03 | 5.98      | 6.08 | 3.50          |      |
| Heptachlor      | 1   | 4.91 | 4.86      | 4.96 | 1.10          | 22.4 |
|                 | 2   | 3.94 | 3.89      | 3.99 | 0.88          |      |
| Aldrin          | 1   | 5.25 | 5.20      | 5.30 | 6.20          | 25.5 |
|                 | 2   | 4.22 | 4.17      | 4.27 | 4.80          |      |
| gamma-Chlordane | 1   | 5.94 | 5.89      | 5.99 | 3.50          | 91.7 |
|                 | 2   | 4.98 | 4.93      | 5.03 | 1.30          |      |
| alpha-Chlordane | 1   | 6.02 | 5.97      | 6.07 | 6.00          | 79.1 |
|                 | 2   | 5.04 | 4.99      | 5.09 | 2.60          |      |
| 4,4'-DDE        | 1   | 6.19 | 6.14      | 6.24 | 2.10          | 4.7  |
|                 | 2   | 5.23 | 5.18      | 5.28 | 2.20          |      |

### COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166413BS

Contract: RUTW01

Lab Code: CHEM

Case No.: Q1235

SAS No.: Q1235

SDG NO.: Q1235

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 |      | CONCENTRATION | %RPD |
|---------------------|-----|------|-----------|------|---------------|------|
|                     |     |      | FROM      | TO   |               |      |
| 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          |      |

### COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166413BS

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235

SAS No.: Q1235 SDG NO.: Q1235

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 |      | CONCENTRATION | %RPD |
|--------------------|-----|------|-----------|------|---------------|------|
|                    |     |      | FROM      | TO   |               |      |
| 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          |      |