

## Chemical Analysis Report

WAS-SECT-2018-03-22-01

Florida Department of Environmental Protection  
Central Laboratory  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400  
DOH Accreditation E31780

Event Description: **CDD, Godby, Megginnis, Chicken, Sand, 8, Black158, Big Branch**  
Request ID: **RQ-2018-03-19-26**  
Customer: **WAS-SECT**  
Project ID: **SMP**

Send Reports to:  
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Date Certified: 08-MAY-2018 14:32



## Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to  $1.3 \times 10^3$  or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (\*\*) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

**Sample Location: SAND POND MIDDLE**

**Collection Date/Time: 03/22/2018 11:15**

**Field ID: G1WA0044**

**Matrix: W-SURF-FRH**

| Sample ID | Ref. Method        | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|--------------------|-------------------|--------|------|------------|----------|----------|
| 1976969   | EPA 180.1 Rev. 2.0 | Turbidity         | 1.0    |      | NTU        | P342050  |          |
|           | EPA 300.0 Rev. 2.1 | Chloride          | 2.3    |      | mg Cl/L    | P342311  |          |
|           |                    | Sulfate           | 0.74   |      | mg SO4/L   | P342313  |          |
|           | SM 2120 B          | Color (true)      | 26     |      | PCU        | P342054  |          |
|           | SM 2320 B-97       | Total Alkalinity  | 0.94   | I    | mg CaCO3/L | P342474  |          |
|           | SM 2540 C-97       | TDS               | 18     | I    | mg/L       | P342382  |          |
|           | SM 2540 D-97       | TSS               | 2      | U    | mg/L       | P342223  |          |
|           | SM 4500 F-C-97     | Fluoride          | 0.035  | U    | mg F/L     | P342537  |          |
|           | EPA 350.1 Rev. 2.0 | Ammonia-N         | 0.004  | I    | mg N/L     | P342305  |          |
|           | EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen | 0.53   |      | mg N/L     | P342168  |          |
| 1976975   | EPA 353.2 Rev. 2.0 | NO2NO3-N          | 0.004  | U    | mg N/L     | P342255  |          |
|           | EPA 365.1 Rev. 2.0 | Total-P           | 0.011  |      | mg P/L     | P342188  |          |
|           | SM 5310 B-00       | Organic Carbon    | 5.7    |      | mg C/L     | P342761  |          |
|           | EPA 365.1 Rev. 2.0 | O-Phosphate-P     | 0.004  | U    | mg P/L     | P342085  |          |
|           | dissolved          |                   |        |      |            |          |          |

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

**Sample Location: EIGHT MILE POND MIDDLE**

**Collection Date/Time: 03/22/2018 11:50**

**Field ID: G1WA0024**

**Matrix: W-SURF-FRH**

| Sample ID | Ref. Method        | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|--------------------|-------------------|--------|------|------------|----------|----------|
| 1976970   | EPA 180.1 Rev. 2.0 | Turbidity         | 14     | A    | NTU        | P342050  |          |
|           | EPA 300.0 Rev. 2.1 | Chloride          | 2.5    | A    | mg Cl/L    | P342312  |          |
|           |                    | Sulfate           | 1.7    | A    | mg SO4/L   | P342314  |          |
|           | SM 2120 B          | Color (true)      | 89     | A    | PCU        | P342055  |          |
|           | SM 2320 B-97       | Total Alkalinity  | 31     |      | mg CaCO3/L | P342474  |          |
|           | SM 2540 C-97       | TDS               | 59     |      | mg/L       | P342382  |          |
|           | SM 2540 D-97       | TSS               | 7      | I    | mg/L       | P342223  |          |
|           | SM 4500 F-C-97     | Fluoride          | 0.070  | I    | mg F/L     | P342537  |          |
|           | EPA 350.1 Rev. 2.0 | Ammonia-N         | 0.004  | I    | mg N/L     | P342305  |          |
|           | EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen | 0.59   |      | mg N/L     | P342168  |          |
| 1976976   | EPA 353.2 Rev. 2.0 | NO2NO3-N          | 0.008  | I    | mg N/L     | P342339  |          |
|           | EPA 365.1 Rev. 2.0 | Total-P           | 0.16   |      | mg P/L     | P342188  |          |
|           | SM 5310 B-00       | Organic Carbon    | 6.3    |      | mg C/L     | P342761  |          |
|           | EPA 365.1 Rev. 2.0 | O-Phosphate-P     | 0.062  |      | mg P/L     | P342085  |          |
|           | dissolved          |                   |        |      |            |          |          |

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

**Sample Location: BLACK CREEK UPSTREAM OF CR 158**

**Collection Date/Time: 03/22/2018 13:05**

**Field ID: G1WA0072**

**Matrix: W-SURF-FRH**

| Sample ID | Ref. Method        | Component | Result | Code | Units    | Batch ID | QC Codes |
|-----------|--------------------|-----------|--------|------|----------|----------|----------|
| 1976971   | EPA 180.1 Rev. 2.0 | Turbidity | 3.3    |      | NTU      | P342050  |          |
|           | EPA 300.0 Rev. 2.1 | Chloride  | 7.6    |      | mg Cl/L  | P342312  |          |
|           |                    | Sulfate   | 0.73   |      | mg SO4/L | P342314  |          |

Field ID: G1WA0072

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                     | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|---------------------------------|-------------------|--------|------|------------|----------|----------|
| 1976971   | SM 2120 B                       | Color (true)      | 180    |      | PCU        | P342055  |          |
|           | SM 2320 B-97                    | Total Alkalinity  | 5.2    |      | mg CaCO3/L | P342474  |          |
|           | SM 2540 C-97                    | TDS               | 78     |      | mg/L       | P342382  |          |
|           | SM 2540 D-97                    | TSS               | 2      | I    | mg/L       | P342223  |          |
|           | SM 4500 F-C-97                  | Fluoride          | 0.043  | I    | mg F/L     | P342537  |          |
| 1976977   | EPA 350.1 Rev. 2.0              | Ammonia-N         | 0.005  |      | mg N/L     | P342305  |          |
|           | EPA 351.2 Rev. 2.0              | Kjeldahl Nitrogen | 0.62   |      | mg N/L     | P342168  |          |
|           | EPA 353.2 Rev. 2.0              | NO2NO3-N          | 0.004  | U    | mg N/L     | P342255  |          |
|           | EPA 365.1 Rev. 2.0              | Total-P           | 0.054  |      | mg P/L     | P342188  |          |
|           | SM 5310 B-00                    | Organic Carbon    | 17     |      | mg C/L     | P342761  |          |
| 1976983   | EPA 365.1 Rev. 2.0<br>dissolved | O-Phosphate-P     | 0.024  |      | mg P/L     | P342085  |          |

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: BLACK CREEK UPSTREAM OF CR 158

Collection Date/Time: 03/22/2018 13:05

Field ID: G1WA0072

Matrix: W-SURF-FRH

| Sample ID | Ref. Method        | Component | Result | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|-----------|--------|------|-------|----------|----------|
| 1977013   | EPA 200.7 Rev. 4.4 | Calcium   | 3.67   |      | mg/L  | P342166  |          |
|           |                    | Iron      | 920    |      | ug/L  | P342166  |          |
|           |                    | Magnesium | 1.50   |      | mg/L  | P342166  |          |
|           |                    | Potassium | 0.67   | I    | mg/L  | P342166  |          |
|           |                    | Sodium    | 3.5    |      | mg/L  | P342166  |          |
|           |                    | Zinc      | 5.0    | U    | ug/L  | P342166  |          |
|           | EPA 200.8 Rev. 5.4 | Arsenic   | 0.43   |      | ug/L  | P344500  |          |
|           |                    | Cadmium   | 0.020  | U    | ug/L  | P344500  |          |
|           |                    | Chromium  | 0.73   | I    | ug/L  | P344500  |          |
|           |                    | Copper    | 0.47   | I    | ug/L  | P344500  |          |
|           |                    | Lead      | 0.27   |      | ug/L  | P344500  |          |
|           |                    | Nickel    | 0.35   | I    | ug/L  | P344500  |          |
|           |                    | Silver    | 0.010  | U    | ug/L  | P344500  |          |

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: BLACK CREEK UPSTREAM OF CR 158

Collection Date/Time: 03/22/2018 13:05

Field ID: G1WA0072

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|---------|------|-------|----------|----------|
| 1977005   | EPA 8321B   | 2,4-D            | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Sucralose**      | 0.079   |      | ug/L  | P342018  |          |
|           |             | Bentazon         | 8.0E-04 | U    | ug/L  | P342060  | MS       |
|           |             | MCP              | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Triclopyr**      | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Imidacloprid     | 0.0034  | I    | ug/L  | P342060  | MS       |
|           |             | Diuron           | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Pyraclostrobin** | 0.0020  | U    | ug/L  | P342060  |          |

Field ID: G1WA0072

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component       | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|-----------------|---------|------|-------|----------|----------|
| 1977005   | EPA 8321B   | Primidone**     | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Linuron         | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Acetaminophen** | 0.0080  | U    | ug/L  | P342060  |          |
|           |             | Fenuron         | 0.016   | U    | ug/L  | P342060  |          |
|           |             | Imazapyr**      | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Carbamazepine** | 4.0E-04 | U    | ug/L  | P342060  |          |
|           |             | Fluridone**     | 8.0E-04 | U    | ug/L  | P342060  |          |

Sample Location: CENTRAL DRAINAGE DITCH DOWNSTREAM  
 OF ORANGE AVE

Collection Date/Time: 03/22/2018 10:00

Field ID: G1WA0026

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                     | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|---------------------------------|-------------------|--------|------|------------|----------|----------|
| 1976972   | EPA 180.1 Rev. 2.0              | Turbidity         | 50     |      | NTU        | P342050  |          |
|           | EPA 300.0 Rev. 2.1              | Chloride          | 2.7    |      | mg Cl/L    | P342312  |          |
|           |                                 | Sulfate           | 3.4    |      | mg SO4/L   | P342314  |          |
|           | SM 2120 B                       | Color (true)      | 14     |      | PCU        | P342057  |          |
|           | SM 2320 B-97                    | Total Alkalinity  | 51     |      | mg CaCO3/L | P342474  |          |
|           | SM 2540 C-97                    | TDS               | 105    |      | mg/L       | P342382  |          |
|           | SM 2540 D-97                    | TSS               | 19     |      | mg/L       | P342223  |          |
|           | SM 4500 F-C-97                  | Fluoride          | 0.089  | I    | mg F/L     | P342537  |          |
| 1976978   | EPA 350.1 Rev. 2.0              | Ammonia-N         | 0.047  |      | mg N/L     | P342305  |          |
|           | EPA 351.2 Rev. 2.0              | Kjeldahl Nitrogen | 0.56   |      | mg N/L     | P342168  |          |
|           | EPA 353.2 Rev. 2.0              | NO2NO3-N          | 0.085  |      | mg N/L     | P342255  |          |
|           | EPA 365.1 Rev. 2.0              | Total-P           | 0.37   |      | mg P/L     | P342188  |          |
|           | SM 5310 B-00                    | Organic Carbon    | 4.1    |      | mg C/L     | P342761  |          |
| 1976984   | EPA 365.1 Rev. 2.0<br>dissolved | O-Phosphate-P     | 0.10   |      | mg P/L     | P342087  |          |

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: CENTRAL DRAINAGE DITCH DOWNSTREAM  
 OF ORANGE AVE

Collection Date/Time: 03/22/2018 10:00

Field ID: G1WA0026

Matrix: W-SURF-FRH

| Sample ID | Ref. Method        | Component | Result   | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|-----------|----------|------|-------|----------|----------|
| 1977014   | EPA 200.7 Rev. 4.4 | Calcium   | 18.6     |      | mg/L  | P342166  |          |
|           |                    | Iron      | 1.79E+03 |      | ug/L  | P342166  |          |
|           |                    | Magnesium | 2.97     |      | mg/L  | P342166  |          |
|           |                    | Potassium | 2.3      |      | mg/L  | P342166  |          |
|           |                    | Sodium    | 2.0      | I    | mg/L  | P342166  |          |
|           |                    | Zinc      | 11       | I    | ug/L  | P342166  |          |
|           | EPA 200.8 Rev. 5.4 | Arsenic   | 0.050    | U    | ug/L  | P342166  |          |
|           |                    | Cadmium   | 0.020    | U    | ug/L  | P342166  |          |
|           |                    | Chromium  | 0.40     | U    | ug/L  | P342166  |          |
|           |                    | Copper    | 0.20     | U    | ug/L  | P342166  |          |

Field ID: G1WA0026

Matrix: W-SURF-FRH

| Sample ID | Ref. Method        | Component | Result | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|-----------|--------|------|-------|----------|----------|
| 1977014   | EPA 200.8 Rev. 5.4 | Lead      | 0.050  | U    | ug/L  | P342166  |          |
|           |                    | Nickel    | 0.20   | U    | ug/L  | P342166  |          |
|           |                    | Silver    | 0.010  | U    | ug/L  | P342166  |          |

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: CENTRAL DRAINAGE DITCH DOWNSTREAM OF ORANGE AVE      Collection Date/Time: 03/22/2018 10:00

Field ID: G1WA0026

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component           | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|---------------------|---------|------|-------|----------|----------|
| 1977009   | EPA 8321B   | Aldicarb            | 0.020   | U    | ug/L  | P342060  |          |
|           |             | Aldicarb Sulfone    | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Aldicarb Sulfoxide  | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Carbaryl            | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Carbofuran          | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | 3-Hydroxycarbofuran | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Methiocarb          | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Methomyl            | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Oxamyl              | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Propoxur            | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | 2,4-D               | 0.014   |      | ug/L  | P342060  |          |
|           |             | Sucralose**         | 0.10    |      | ug/L  | P342018  |          |
|           |             | Bentazon            | 8.0E-04 | U    | ug/L  | P342060  | MS       |
|           |             | MCP                 | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Triclopyr**         | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Imidacloprid        | 0.074   |      | ug/L  | P342060  | MS       |
| 1977010   | EPA 8270D   | Diuron              | 0.029   |      | ug/L  | P342060  |          |
|           |             | Pyraclostrobin**    | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Primidone**         | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Linuron             | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Acetaminophen**     | 0.021   | I    | ug/L  | P342060  |          |
|           |             | Fenuron             | 0.016   | U    | ug/L  | P342060  |          |
|           |             | Imazapyr**          | 0.32    |      | ug/L  | P342060  |          |
|           |             | Carbamazepine**     | 4.0E-04 | U    | ug/L  | P342060  |          |
|           |             | Fluridone**         | 8.0E-04 | U    | ug/L  | P342060  |          |
|           |             | Glyphosate**        | 2.2     |      | ug/L  | P342108  |          |
|           |             | AMPA**              | 0.66    |      | ug/L  | P342108  |          |
|           |             | Aldrin              | 4.2     | U    | ng/L  | P342367  |          |
|           |             | Alpha-BHC           | 2.1     | U    | ng/L  | P342367  |          |
|           |             | Beta-BHC            | 4.2     | U    | ng/L  | P342367  |          |
|           |             | Delta-BHC           | 4.2     | U    | ng/L  | P342367  |          |
|           |             | Gamma-BHC           | 4.2     | U    | ng/L  | P342367  |          |
|           |             | Carbophenothion     | 4.2     | U    | ng/L  | P342367  |          |
|           |             | Chlorothalonil      | 2.1     | U    | ng/L  | P342367  |          |

Field ID: G1WA0026

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component           | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|---------------------|--------|------|-------|----------|----------|
| 1977011   | EPA 8270D   | Cypermethrin        | 21     | U    | ng/L  | P342367  |          |
|           |             | DDD-p,p'            | 3.2    | U    | ng/L  | P342367  |          |
|           |             | DDE-p,p'            | 3.2    | U    | ng/L  | P342367  |          |
|           |             | DDT-p,p'            | 3.2    | U    | ng/L  | P342367  |          |
|           |             | Dieldrin            | 4.2    | U    | ng/L  | P342367  |          |
|           |             | Endosulfan I        | 4.2    | U    | ng/L  | P342367  |          |
|           |             | Endosulfan II       | 4.2    | U    | ng/L  | P342367  |          |
|           |             | Endosulfan Sulfate  | 2.1    | U    | ng/L  | P342367  |          |
|           |             | Endrin              | 2.1    | U    | ng/L  | P342367  |          |
|           |             | Endrin Aldehyde     | 2.1    | U    | ng/L  | P342367  |          |
|           |             | Heptachlor          | 1.6    | U    | ng/L  | P342367  |          |
|           |             | Heptachlor Epoxide  | 2.1    | U    | ng/L  | P342367  |          |
|           |             | Methoxychlor        | 4.2    | U    | ng/L  | P342367  |          |
|           |             | Mirex               | 2.1    | U    | ng/L  | P342367  |          |
|           |             | Permethrin          | 11     | U    | ng/L  | P342367  |          |
|           |             | Trifluralin         | 2.9    | I    | ng/L  | P342367  |          |
|           |             | Alpha-Chlordane     | 1.1    | U    | ng/L  | P342367  |          |
|           |             | Gamma-Chlordane     | 1.1    | U    | ng/L  | P342367  |          |
|           |             | Endrin Ketone       | 2.1    | U    | ng/L  | P342367  |          |
|           |             | Dicofol             | 32     | U    | ng/L  | P342367  |          |
| 1977012   | EPA 8276    | Chlordane**         | 2.6    | U    | ng/L  | P342367  |          |
|           |             | Toxaphene**         | 32     | U    | ng/L  | P342367  |          |
|           | EPA 8270D   | Alachlor            | 0.24   | U    | ng/L  | P342308  |          |
|           |             | Ametryn             | 0.31   | U    | ng/L  | P342308  |          |
|           |             | Atrazine            | 270    |      | ng/L  | P342308  |          |
|           |             | Atrazine Desethyl   | 8.1    |      | ng/L  | P342308  |          |
|           |             | Azinphos Methyl     | 2.2    | U    | ng/L  | P342308  |          |
|           |             | Bromacil            | 3.3    |      | ng/L  | P342308  |          |
|           |             | Butylate            | 0.38   | UJ   | ng/L  | P342308  | RPD      |
|           |             | Chlorpyrifos Ethyl  | 0.24   | U    | ng/L  | P342308  |          |
|           |             | Chlorpyrifos Methyl | 0.096  | U    | ng/L  | P342308  |          |
|           |             | Demeton             | 1.9    | U    | ng/L  | P342308  |          |
|           |             | Diazinon            | 0.12   | U    | ng/L  | P342308  |          |
|           |             | Disulfoton          | 0.48   | U    | ng/L  | P342308  |          |
|           |             | EPTC                | 1.2    | UJ   | ng/L  | P342308  | RPD      |
|           |             | Ethion              | 0.14   | U    | ng/L  | P342308  |          |
|           |             | Ethoprop            | 0.096  | U    | ng/L  | P342308  |          |
|           |             | Fenamiphos          | 0.24   | U    | ng/L  | P342308  |          |
|           |             | Fipronil            | 3.0    |      | ng/L  | P342308  |          |
|           |             | Fipronil Sulfide    | 0.71   |      | ng/L  | P342308  |          |
|           |             | Fipronil Sulfone    | 2.8    |      | ng/L  | P342308  |          |
|           |             | Hexazinone          | 0.48   | U    | ng/L  | P342308  |          |
|           |             | Malathion           | 0.34   | U    | ng/L  | P342308  |          |
|           |             | Metribuzin          | 0.19   | U    | ng/L  | P342308  |          |
|           |             | Mevinphos           | 0.48   | U    | ng/L  | P342308  |          |

**Field ID: G1WA0026**

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|--------|------|-------|----------|----------|
| 1977012   | EPA 8270D   | Molinate         | 0.29   | UJ   | ng/L  | P342308  | RPD      |
|           |             | Norflurazon      | 0.48   | U    | ng/L  | P342308  |          |
|           |             | Pendimethalin    | 0.96   | U    | ng/L  | P342308  |          |
|           |             | Phorate          | 0.24   | U    | ng/L  | P342308  |          |
|           |             | Prometon         | 0.86   | U    | ng/L  | P342308  |          |
|           |             | Prometryn        | 0.19   | U    | ng/L  | P342308  |          |
|           |             | Simazine         | 19     |      | ng/L  | P342308  |          |
|           |             | Terbufos         | 0.096  | U    | ng/L  | P342308  |          |
|           |             | Terbuthylazine   | 0.41   | U    | ng/L  | P342308  |          |
|           |             | Fonofos          | 0.19   | U    | ng/L  | P342308  |          |
|           |             | Metalaxyl        | 0.24   | U    | ng/L  | P342308  |          |
|           |             | Metolachlor      | 0.64   | I    | ng/L  | P342308  |          |
|           |             | Acetochlor       | 0.24   | U    | ng/L  | P342308  |          |
|           |             | Cyanazine        | 0.48   | UJ   | ng/L  | P342308  | CCV      |
|           |             | Parathion Ethyl  | 0.24   | U    | ng/L  | P342308  |          |
|           |             | Parathion Methyl | 0.24   | U    | ng/L  | P342308  |          |

Ref. Method and Comment:

EPA 8270D: MS accuracy for Atrazine, Simazine and Fipronil Sulfone not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.

**Sample Location: CHICKEN BRANCH AT OLD PLANK RD**

**Collection Date/Time: 03/22/2018 12:31**

**Field ID: G1WA0031**

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|---------|------|-------|----------|----------|
| 1977006   | EPA 8321B   | 2,4-D            | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Sucralose**      | 0.010   | U    | ug/L  | P342018  |          |
|           |             | Bentazon         | 8.0E-04 | U    | ug/L  | P342060  | MS       |
|           |             | MCP              | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Triclopyr**      | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Imidacloprid     | 0.0020  | U    | ug/L  | P342060  | MS       |
|           |             | Diuron           | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Pyraclostrobin** | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Primidone**      | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Linuron          | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Acetaminophen**  | 0.0080  | U    | ug/L  | P342060  |          |
|           |             | Fenuron          | 0.016   | U    | ug/L  | P342060  |          |
|           |             | Imazapyr**       | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Carbamazepine**  | 4.0E-04 | U    | ug/L  | P342060  |          |
|           |             | Fluridone**      | 8.0E-04 | U    | ug/L  | P342060  |          |

**Sample Location: BIG BRANCH 50 METERS UPSTREAM OF CR**

**Collection Date/Time: 03/22/2018 08:26**

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**Field ID: G1WA0001**

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component   | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|-------------|--------|------|-------|----------|----------|
| 1977007   | EPA 8321B   | 2,4-D       | 0.0020 | U    | ug/L  | P342060  |          |
|           |             | Sucralose** | 0.010  | U    | ug/L  | P342018  |          |



**Field ID: G1WA0001**

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|---------|------|-------|----------|----------|
| 1977007   | EPA 8321B   | Bentazon         | 8.0E-04 | U    | ug/L  | P342060  | MS       |
|           |             | MCPP             | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Triclopyr**      | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Imidacloprid     | 0.0020  | U    | ug/L  | P342060  | MS       |
|           |             | Diuron           | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Pyraclostrobin** | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Primidone**      | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Linuron          | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Acetaminophen**  | 0.0080  | U    | ug/L  | P342060  |          |
|           |             | Fenuron          | 0.016   | U    | ug/L  | P342060  |          |
|           |             | Imazapyr**       | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Carbamazepine**  | 4.0E-04 | U    | ug/L  | P342060  |          |
|           |             | Fluridone**      | 8.0E-04 | U    | ug/L  | P342060  |          |

**Sample Location: GODBY DRAINAGE AT PROGRESS DR**

**Collection Date/Time: 03/22/2018 09:25**

**Field ID: G1WA0061**

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                     | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|---------------------------------|-------------------|--------|------|------------|----------|----------|
| 1976973   | EPA 180.1 Rev. 2.0              | Turbidity         | 5.6    |      | NTU        | P342050  |          |
|           | EPA 300.0 Rev. 2.1              | Chloride          | 5.0    |      | mg Cl/L    | P342312  |          |
|           |                                 | Sulfate           | 2.1    |      | mg SO4/L   | P342314  |          |
|           | SM 2120 B                       | Color (true)      | 34     |      | PCU        | P342055  |          |
|           | SM 2320 B-97                    | Total Alkalinity  | 80     | A    | mg CaCO3/L | P342474  |          |
|           | SM 2540 C-97                    | TDS               | 112    |      | mg/L       | P342382  |          |
|           | SM 2540 D-97                    | TSS               | 2      | U    | mg/L       | P342224  |          |
|           | SM 4500 F-C-97                  | Fluoride          | 0.12   |      | mg F/L     | P342537  |          |
| 1976979   | EPA 350.1 Rev. 2.0              | Ammonia-N         | 0.062  |      | mg N/L     | P342305  |          |
|           | EPA 351.2 Rev. 2.0              | Kjeldahl Nitrogen | 0.32   |      | mg N/L     | P342168  |          |
|           | EPA 353.2 Rev. 2.0              | NO2NO3-N          | 0.036  |      | mg N/L     | P342255  |          |
|           | EPA 365.1 Rev. 2.0              | Total-P           | 0.15   |      | mg P/L     | P342188  |          |
|           | SM 5310 B-00                    | Organic Carbon    | 3.3    |      | mg C/L     | P342761  |          |
| 1976985   | EPA 365.1 Rev. 2.0<br>dissolved | O-Phosphate-P     | 0.11   |      | mg P/L     | P342087  |          |

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

**Sample Location: MEGGINNIS ARM RUN DOWNSTREAM OF SHARER**

**Collection Date/Time: 03/22/2018 07:25**

**Field ID: G1WA0033**

Matrix: W-SURF-FRH

| Sample ID | Ref. Method        | Component        | Result | Code | Units      | Batch ID | QC Codes |
|-----------|--------------------|------------------|--------|------|------------|----------|----------|
| 1976974   | EPA 180.1 Rev. 2.0 | Turbidity        | 6.3    |      | NTU        | P342050  |          |
|           | EPA 300.0 Rev. 2.1 | Chloride         | 5.8    |      | mg Cl/L    | P342312  |          |
|           |                    | Sulfate          | 0.95   |      | mg SO4/L   | P342314  |          |
|           | SM 2120 B          | Color (true)     | 53     |      | PCU        | P342055  |          |
|           | SM 2320 B-97       | Total Alkalinity | 32     |      | mg CaCO3/L | P342474  |          |

Field ID: G1WA0033

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                  | Component         | Result | Code | Units  | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|--------|------|--------|----------|----------|
| 1976974   | SM 2540 C-97                 | TDS               | 65     |      | mg/L   | P342382  |          |
|           | SM 2540 D-97                 | TSS               | 2      | I    | mg/L   | P342224  |          |
|           | SM 4500 F-C-97               | Fluoride          | 0.071  | I    | mg F/L | P342537  |          |
| 1976980   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.030  |      | mg N/L | P342305  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.28   |      | mg N/L | P342168  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.062  |      | mg N/L | P342255  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.11   |      | mg P/L | P342188  |          |
|           | SM 5310 B-00                 | Organic Carbon    | 3.8    |      | mg C/L | P342761  |          |
| 1976986   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.066  |      | mg P/L | P342087  |          |

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: MEGGINNIS ARM RUN DOWNSTREAM OF SHARER

Collection Date/Time: 03/22/2018 07:25

Field ID: G1WA0033

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|---------|------|-------|----------|----------|
| 1977008   | EPA 8321B   | 2,4-D            | 0.29    |      | ug/L  | P342060  |          |
|           |             | Sucralose**      | 0.048   |      | ug/L  | P342018  |          |
|           |             | Bentazon         | 8.0E-04 | U    | ug/L  | P342060  | MS       |
|           |             | MCP              | 0.085   |      | ug/L  | P342060  |          |
|           |             | Triclopyr**      | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Imidacloprid     | 0.15    |      | ug/L  | P342060  | MS       |
|           |             | Diuron           | 0.0023  | I    | ug/L  | P342060  |          |
|           |             | Pyraclostrobin** | 0.0020  | U    | ug/L  | P342060  |          |
|           |             | Primidone**      | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Linuron          | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Acetaminophen**  | 0.0080  | U    | ug/L  | P342060  |          |
|           |             | Fenuron          | 0.016   | U    | ug/L  | P342060  |          |
|           |             | Imazapyr**       | 0.0040  | U    | ug/L  | P342060  |          |
|           |             | Carbamazepine**  | 4.0E-04 | U    | ug/L  | P342060  |          |
|           |             | Fluridone**      | 8.0E-04 | U    | ug/L  | P342060  |          |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P342050

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Turbidity | 0.10   | U    | NTU   |

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P342166

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Calcium   | 0.075  | U    | mg/L  |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P342166

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Iron      | 30     | U    | ug/L  |
| Magnesium | 0.040  | U    | mg/L  |
| Potassium | 0.30   | U    | mg/L  |
| Sodium    | 0.50   | U    | mg/L  |
| Zinc      | 5.0    | U    | ug/L  |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P342166

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Arsenic   | 0.050  | U    | ug/L  |
| Cadmium   | 0.020  | U    | ug/L  |
| Chromium  | 0.40   | U    | ug/L  |
| Copper    | 0.20   | U    | ug/L  |
| Lead      | 0.068  | I    | ug/L  |
| Nickel    | 0.20   | U    | ug/L  |
| Silver    | 0.010  | U    | ug/L  |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P344500

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Arsenic   | 0.050  | U    | ug/L  |
| Cadmium   | 0.020  | U    | ug/L  |
| Chromium  | 0.40   | U    | ug/L  |
| Copper    | 0.20   | U    | ug/L  |
| Lead      | 0.050  | U    | ug/L  |
| Nickel    | 0.20   | U    | ug/L  |
| Silver    | 0.010  | U    | ug/L  |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342311

| Component | Result | Code | Units   |
|-----------|--------|------|---------|
| Chloride  | 0.20   | U    | mg Cl/L |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342312

| Component | Result | Code | Units   |
|-----------|--------|------|---------|
| Chloride  | 0.20   | U    | mg Cl/L |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342313

| Component | Result | Code | Units    |
|-----------|--------|------|----------|
| Sulfate   | 0.20   | U    | mg SO4/L |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342314

| Component | Result | Code | Units |
|-----------|--------|------|-------|
|-----------|--------|------|-------|

## Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342314

| Component | Result | Code | Units    |
|-----------|--------|------|----------|
| Sulfate   | 0.20   | U    | mg SO4/L |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P342305

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| Ammonia-N | 0.002  | U    | mg N/L |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P342168

| Component         | Result | Code | Units  |
|-------------------|--------|------|--------|
| Kjeldahl Nitrogen | 0.080  | U    | mg N/L |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P342255

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| NO2NO3-N  | 0.004  | U    | mg N/L |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P342339

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| NO2NO3-N  | 0.004  | U    | mg N/L |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P342188

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| Total-P   | 0.002  | U    | mg P/L |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P342085

| Component     | Result | Code | Units  |
|---------------|--------|------|--------|
| O-Phosphate-P | 0.004  | U    | mg P/L |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P342087

| Component     | Result | Code | Units  |
|---------------|--------|------|--------|
| O-Phosphate-P | 0.004  | U    | mg P/L |

Reference Method: EPA 8270D  
Batch ID: P342308

| Component  | Result | Code | Units |
|------------|--------|------|-------|
| Acetochlor | 0.25   | U    | ng/L  |
| Alachlor   | 0.25   | U    | ng/L  |
| Ametryn    | 0.32   | U    | ng/L  |
| Atrazine   | 0.25   | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270D

Batch ID: P342308

| Component           | Result | Code | Units |
|---------------------|--------|------|-------|
| Atrazine Desethyl   | 1.5    | U    | ng/L  |
| Azinphos Methyl     | 2.2    | U    | ng/L  |
| Bromacil            | 0.50   | U    | ng/L  |
| Butylate            | 0.40   | U    | ng/L  |
| Chlorpyrifos Ethyl  | 0.25   | U    | ng/L  |
| Chlorpyrifos Methyl | 0.10   | U    | ng/L  |
| Cyanazine           | 0.50   | U    | ng/L  |
| Demeton             | 2.0    | U    | ng/L  |
| Diazinon            | 0.12   | U    | ng/L  |
| Disulfoton          | 0.50   | U    | ng/L  |
| EPTC                | 1.2    | U    | ng/L  |
| Ethion              | 0.15   | U    | ng/L  |
| Ethoprop            | 0.10   | U    | ng/L  |
| Fenamiphos          | 0.25   | U    | ng/L  |
| Fipronil            | 0.25   | U    | ng/L  |
| Fipronil Sulfide    | 0.15   | U    | ng/L  |
| Fipronil Sulfone    | 0.15   | U    | ng/L  |
| Fonofos             | 0.20   | U    | ng/L  |
| Hexazinone          | 0.50   | U    | ng/L  |
| Malathion           | 0.35   | U    | ng/L  |
| Metalaxyl           | 0.25   | U    | ng/L  |
| Metolachlor         | 0.25   | U    | ng/L  |
| Metribuzin          | 0.20   | U    | ng/L  |
| Mevinphos           | 0.50   | U    | ng/L  |
| Molinate            | 0.30   | U    | ng/L  |
| Norflurazon         | 0.50   | U    | ng/L  |
| Parathion Ethyl     | 0.25   | U    | ng/L  |
| Parathion Methyl    | 0.25   | U    | ng/L  |
| Pendimethalin       | 1.0    | U    | ng/L  |
| Phorate             | 0.25   | U    | ng/L  |
| Prometon            | 0.90   | U    | ng/L  |
| Prometryn           | 0.20   | U    | ng/L  |
| Simazine            | 0.50   | U    | ng/L  |
| Terbufos            | 0.10   | U    | ng/L  |
| Terbuthylazine      | 0.42   | U    | ng/L  |

Reference Method: EPA 8270D

Batch ID: P342367

| Component       | Result | Code | Units |
|-----------------|--------|------|-------|
| Aldrin          | 4.0    | U    | ng/L  |
| Alpha-BHC       | 2.0    | U    | ng/L  |
| Alpha-Chlordane | 1.0    | U    | ng/L  |
| Beta-BHC        | 4.0    | U    | ng/L  |
| Carbophenothion | 4.0    | U    | ng/L  |
| Chlorothalonil  | 2.0    | U    | ng/L  |
| Cypermethrin    | 20     | U    | ng/L  |
| DDD-p,p'        | 3.0    | U    | ng/L  |
| DDE-p,p'        | 3.0    | U    | ng/L  |
| DDT-p,p'        | 3.0    | U    | ng/L  |
| Delta-BHC       | 4.0    | U    | ng/L  |
| Dicofol         | 30     | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270D

Batch ID: P342367

| Component          | Result | Code | Units |
|--------------------|--------|------|-------|
| Dieldrin           | 4.0    | U    | ng/L  |
| Endosulfan I       | 4.0    | U    | ng/L  |
| Endosulfan II      | 4.0    | U    | ng/L  |
| Endosulfan Sulfate | 2.0    | U    | ng/L  |
| Endrin             | 2.0    | U    | ng/L  |
| Endrin Aldehyde    | 2.0    | U    | ng/L  |
| Endrin Ketone      | 2.0    | U    | ng/L  |
| Gamma-BHC          | 4.0    | U    | ng/L  |
| Gamma-Chlordane    | 1.0    | U    | ng/L  |
| Heptachlor         | 1.5    | U    | ng/L  |
| Heptachlor Epoxide | 2.0    | U    | ng/L  |
| Methoxychlor       | 4.0    | U    | ng/L  |
| Mirex              | 2.0    | U    | ng/L  |
| Permethrin         | 10     | U    | ng/L  |
| Trifluralin        | 1.0    | U    | ng/L  |

Reference Method: EPA 8276

Batch ID: P342367

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Chlordane | 2.5    | U    | ng/L  |
| Toxaphene | 30     | U    | ng/L  |

Reference Method: EPA 8321B

Batch ID: P342018

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Sucralose | 0.010  | U    | ug/L  |

Reference Method: EPA 8321B

Batch ID: P342060

| Component           | Result  | Code | Units |
|---------------------|---------|------|-------|
| 2,4-D               | 0.0020  | U    | ug/L  |
| 3-Hydroxycarbofuran | 0.0020  | U    | ug/L  |
| Acetaminophen       | 0.0080  | U    | ug/L  |
| Aldicarb            | 0.020   | U    | ug/L  |
| Aldicarb Sulfone    | 0.0020  | U    | ug/L  |
| Aldicarb Sulfoxide  | 0.0020  | U    | ug/L  |
| Bentazon            | 8.0E-04 | U    | ug/L  |
| Carbamazepine       | 4.0E-04 | U    | ug/L  |
| Carbaryl            | 0.0020  | U    | ug/L  |
| Carbofuran          | 0.0020  | U    | ug/L  |
| Diuron              | 0.0020  | U    | ug/L  |
| Fenuron             | 0.016   | U    | ug/L  |
| Fluridone           | 8.0E-04 | U    | ug/L  |
| Imazapyr            | 0.0040  | U    | ug/L  |
| Imidacloprid        | 0.0020  | U    | ug/L  |
| Linuron             | 0.0040  | U    | ug/L  |
| MCPP                | 0.0020  | U    | ug/L  |
| Methiocarb          | 0.0020  | U    | ug/L  |
| Methomyl            | 0.0020  | U    | ug/L  |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B  
Batch ID: P342060

| Component      | Result | Code | Units |
|----------------|--------|------|-------|
| Oxamyl         | 0.0020 | U    | ug/L  |
| Primidone      | 0.0040 | U    | ug/L  |
| Propoxur       | 0.0020 | U    | ug/L  |
| Pyraclostrobin | 0.0020 | U    | ug/L  |
| Triclopyr      | 0.0040 | U    | ug/L  |

Reference Method: EPA 8321B  
Batch ID: P342108

| Component  | Result | Code | Units |
|------------|--------|------|-------|
| AMPA       | 0.10   | U    | ug/L  |
| Glyphosate | 0.10   | U    | ug/L  |

Reference Method: SM 2120 B  
Batch ID: P342054

| Component    | Result | Code | Units |
|--------------|--------|------|-------|
| Color (true) | 2.5    | U    | PCU   |

Reference Method: SM 2120 B  
Batch ID: P342055

| Component    | Result | Code | Units |
|--------------|--------|------|-------|
| Color (true) | 2.5    | U    | PCU   |

Reference Method: SM 2120 B  
Batch ID: P342057

| Component    | Result | Code | Units |
|--------------|--------|------|-------|
| Color (true) | 2.5    | U    | PCU   |

Reference Method: SM 2320 B-97  
Batch ID: P342474

| Component        | Result | Code | Units                   |
|------------------|--------|------|-------------------------|
| Total Alkalinity | 0.65   | U    | mg CaCO <sub>3</sub> /L |

Reference Method: SM 2540 C-97  
Batch ID: P342382

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TDS       | 15     | U    | mg/L  |

Reference Method: SM 2540 D-97  
Batch ID: P342223

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TSS       | 2      | U    | mg/L  |

## Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97  
Batch ID: P342224

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TSS       | 2      | U    | mg/L  |

Reference Method: SM 4500 F-C-97  
Batch ID: P342537

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| Fluoride  | 0.035  | U    | mg F/L |

Reference Method: SM 5310 B-00  
Batch ID: P342761

| Component      | Result | Code | Units  |
|----------------|--------|------|--------|
| Organic Carbon | 0.50   | U    | mg C/L |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P342166

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Calcium   | 104     |         | P         | 85 - 115       |
| Iron      | 107     |         | P         | 85 - 115       |
| Magnesium | 103     |         | P         | 85 - 115       |
| Potassium | 99.2    |         | P         | 85 - 115       |
| Sodium    | 103     |         | P         | 85 - 115       |
| Zinc      | 102     |         | P         | 85 - 115       |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P342166

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Arsenic   | 100     |         | P         | 85 - 115       |
| Cadmium   | 103     |         | P         | 85 - 115       |
| Chromium  | 101     |         | P         | 85 - 115       |
| Copper    | 101     |         | P         | 85 - 115       |
| Lead      | 103     |         | P         | 85 - 115       |
| Nickel    | 101     |         | P         | 85 - 115       |
| Silver    | 99.4    |         | P         | 85 - 115       |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P344500

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Arsenic   | 96.5    |         | P         | 85 - 115       |
| Cadmium   | 93.6    |         | P         | 85 - 115       |
| Chromium  | 91.9    |         | P         | 85 - 115       |
| Copper    | 95.9    |         | P         | 85 - 115       |
| Lead      | 91.5    |         | P         | 85 - 115       |
| Nickel    | 96.4    |         | P         | 85 - 115       |
| Silver    | 95.6    |         | P         | 85 - 115       |



## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342311

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Chloride  | 95.8    |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342312

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Chloride  | 99.1    |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342313

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Sulfate   | 97.0    |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342314

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Sulfate   | 97.7    |         | P         | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P342305

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Ammonia-N | 98.0    |         | P         | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P342168

| Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 103     |         | P         | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P342255

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| NO2NO3-N  | 104     |         | P         | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P342339

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| NO2NO3-N  | 105     |         | P         | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P342188

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Total-P   | 97.0    |         | P         | 90 - 110       |

## Quality Assurance Report

### Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P342085

| Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------|---------|-----------|----------------|
| O-Phosphate-P | 98.8    |         | P         | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P342087

| Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------|---------|-----------|----------------|
| O-Phosphate-P | 100     |         | P         | 90 - 110       |

Reference Method: EPA 8270D

Batch ID: P342308

| Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| Acetochlor          | 91.2    | 92.2    | P/P       | 74 - 119       |
| Alachlor            | 91.2    | 93.2    | P/P       | 75 - 118       |
| Ametryn             | 71.7    | 71.0    | P/P       | 59 - 137       |
| Atrazine            | 94.4    | 101     | P/P       | 73 - 120       |
| Atrazine Desethyl   | 109     | 102     | P/P       | 19 - 129       |
| Azinphos Methyl     | 118     | 126     | P/P       | 65 - 181       |
| Bromacil            | 60.1    | 68.0    | P/P       | 43 - 123       |
| Butylate            | 47.1    | 32.2    | P/P       | 28 - 85.0      |
| Chlorpyrifos Ethyl  | 92.9    | 89.1    | P/P       | 55 - 112       |
| Chlorpyrifos Methyl | 94.3    | 93.6    | P/P       | 35 - 124       |
| Cyanazine           | 239     | 249     | P/P       | 26 - 262       |
| Demeton             | 71.6    | 63.3    | P/P       | 43 - 122       |
| Diazinon            | 97.4    | 98.7    | P/P       | 72 - 120       |
| Disulfoton          | 87.9    | 92.1    | P/P       | 45 - 137       |
| EPTC                | 48.2    | 30.5    | P/P       | 28 - 95.0      |
| Ethion              | 89.3    | 88.4    | P/P       | 63 - 127       |
| Ethoprop            | 86.3    | 79.6    | P/P       | 63 - 109       |
| Fenamiphos          | 93.0    | 93.8    | P/P       | 66 - 136       |
| Fipronil            | 91.1    | 94.5    | P/P       | 63 - 126       |
| Fipronil Sulfide    | 89.3    | 87.8    | P/P       | 59 - 123       |
| Fipronil Sulfone    | 83.5    | 82.0    | P/P       | 56 - 122       |
| Fonofos             | 88.3    | 84.0    | P/P       | 64 - 114       |
| Hexazinone          | 96.7    | 103     | P/P       | 49 - 144       |
| Malathion           | 98.9    | 101     | P/P       | 68 - 131       |
| Metaxyl             | 86.3    | 91.4    | P/P       | 57 - 126       |
| Metolachlor         | 90.6    | 96.9    | P/P       | 75 - 118       |
| Metribuzin          | 156     | 149     | P/P       | 46 - 169       |
| Mevinphos           | 75.4    | 67.2    | P/P       | 34 - 126       |
| Molinate            | 53.9    | 39.1    | P/P       | 37 - 101       |
| Norflurazon         | 89.5    | 95.1    | P/P       | 63 - 127       |
| Parathion Ethyl     | 94.0    | 97.0    | P/P       | 78 - 109       |
| Parathion Methyl    | 99.9    | 104     | P/P       | 74 - 123       |
| Pendimethalin       | 103     | 102     | P/P       | 51 - 130       |
| Phorate             | 81.0    | 78.5    | P/P       | 53 - 116       |
| Prometon            | 83.9    | 85.4    | P/P       | 66 - 124       |
| Prometryn           | 82.8    | 81.8    | P/P       | 66 - 124       |
| Simazine            | 97.8    | 94.8    | P/P       | 62 - 134       |
| Terbufos            | 87.5    | 84.0    | P/P       | 59 - 115       |
| Terbutylazine       | 92.3    | 96.2    | P/P       | 76 - 113       |

## Quality Assurance Report

### Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P342367

| Component          | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------------|---------|---------|-----------|----------------|
| Aldrin             | 62.8    | 61.6    | P/P       | 24 - 89.0      |
| Alpha-BHC          | 84.5    | 80.9    | P/P       | 58 - 117       |
| Alpha-Chlordane    | 90.4    | 85.3    | P/P       | 56 - 115       |
| Beta-BHC           | 120     | 109     | P/P       | 55 - 137       |
| Carbophenothion    | 94.6    | 96.5    | P/P       | 37 - 145       |
| Chlorothalonil     | 97.7    | 89.5    | P/P       | 26 - 163       |
| Cypermethrin       | 87.7    | 87.1    | P/P       | 42 - 156       |
| DDD-p,p'           | 104     | 100     | P/P       | 59 - 129       |
| DDE-p,p'           | 85.5    | 82.5    | P/P       | 52 - 117       |
| DDT-p,p'           | 88.2    | 90.1    | P/P       | 48 - 128       |
| Delta-BHC          | 128     | 122     | P/P       | 59 - 158       |
| Dicofol            | 97.1    | 91.9    | P/P       | 19 - 124       |
| Dieldrin           | 94.4    | 88.5    | P/P       | 57 - 126       |
| Endosulfan I       | 99.8    | 93.9    | P/P       | 59 - 133       |
| Endosulfan II      | 113     | 108     | P/P       | 58 - 148       |
| Endosulfan Sulfate | 107     | 107     | P/P       | 56 - 135       |
| Endrin             | 94.2    | 81.1    | P/P       | 50 - 140       |
| Endrin Aldehyde    | 97.1    | 95.8    | P/P       | 47 - 141       |
| Endrin Ketone      | 99.6    | 101     | P/P       | 63 - 123       |
| Gamma-BHC          | 99.1    | 91.6    | P/P       | 59 - 132       |
| Gamma-Chlordane    | 86.5    | 83.6    | P/P       | 55 - 112       |
| Heptachlor         | 65.6    | 66.4    | P/P       | 45 - 102       |
| Heptachlor Epoxide | 93.1    | 87.3    | P/P       | 61 - 116       |
| Methoxychlor       | 106     | 102     | P/P       | 60 - 133       |
| Mirex              | 68.1    | 68.9    | P/P       | 40 - 98.0      |
| Permethrin         | 80.0    | 79.1    | P/P       | 45 - 131       |
| Trifluralin        | 77.8    | 75.7    | P/P       | 38 - 179       |

Reference Method: EPA 8276

Batch ID: P342367

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Chlordane | 71.3    | 63.0    | P/P       | 47 - 125       |
| Toxaphene | 98.2    | 94.6    | P/P       | 46 - 147       |

Reference Method: EPA 8321B

Batch ID: P342018

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Sucralose | 102     |         | P         | 40 - 150       |

Reference Method: EPA 8321B

Batch ID: P342060

| Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| 2,4-D               | 74.3    |         | P         | 40 - 150       |
| 3-Hydroxycarbofuran | 84.5    |         | P         | 40 - 150       |
| Acetaminophen       | 102     |         | P         | 30 - 150       |
| Aldicarb            | 74.7    |         | P         | 30 - 150       |
| Aldicarb Sulfone    | 106     |         | P         | 40 - 150       |
| Aldicarb Sulfoxide  | 117     |         | P         | 40 - 150       |
| Bentazon            | 75.1    |         | P         | 30 - 150       |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P342060

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Carbamazepine  | 63.9    |         | P         | 40 - 150       |
| Carbaryl       | 59.6    |         | P         | 40 - 150       |
| Carbofuran     | 56.4    |         | P         | 40 - 150       |
| Diuron         | 62.3    |         | P         | 40 - 150       |
| Fenuron        | 112     |         | P         | 40 - 150       |
| Fluridone      | 56.9    |         | P         | 40 - 150       |
| Imazapyr       | 73.3    |         | P         | 40 - 150       |
| Imidacloprid   | 95.8    |         | P         | 40 - 160       |
| Linuron        | 76.5    |         | P         | 40 - 150       |
| MCPP           | 83.1    |         | P         | 40 - 150       |
| Methiocarb     | 51.9    |         | P         | 40 - 150       |
| Methomyl       | 99.2    |         | P         | 40 - 150       |
| Oxamyl         | 103     |         | P         | 40 - 150       |
| Primidone      | 107     |         | P         | 40 - 150       |
| Propoxur       | 53.7    |         | P         | 40 - 150       |
| Pyraclostrobin | 67.4    |         | P         | 40 - 150       |
| Triclopyr      | 68.9    |         | P         | 40 - 150       |

Reference Method: EPA 8321B

Batch ID: P342108

| Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------|---------|---------|-----------|----------------|
| AMPA       | 97.7    |         | P         | 40 - 150       |
| Glyphosate | 101     |         | P         | 40 - 150       |

Reference Method: SM 2320 B-97

Batch ID: P342474

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| Total Alkalinity | 99.5    |         | P         | 98 - 107       |

Reference Method: SM 4500 F-C-97

Batch ID: P342537

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Fluoride  | 97.9    |         | P         | 91 - 105       |

Reference Method: SM 5310 B-00

Batch ID: P342761

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Organic Carbon | 98.9    |         | P         | 85 - 115       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P342166

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976395       | Iron      | 103     | 105     | P/P       | 80 - 120       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P342166

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976395       | Magnesium | 104     |         | P         | 80 - 120       |
| 1976395       | Potassium | 102     |         | P         | 80 - 120       |
| 1976395       | Sodium    | 102     |         | P         | 80 - 120       |
| 1976395       | Zinc      | 101     | 102     | P/P       | 80 - 120       |
| 1977054       | Calcium   | 105     |         | P         | 80 - 120       |
| 1977054       | Iron      | 106     |         | P         | 80 - 120       |
| 1977054       | Magnesium | 108     |         | P         | 80 - 120       |
| 1977054       | Potassium | 101     |         | P         | 80 - 120       |
| 1977054       | Sodium    | 108     |         | P         | 80 - 120       |
| 1977054       | Zinc      | 102     |         | P         | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P342166

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976395       | Arsenic   | 99.7    | 100     | P/P       | 75 - 125       |
| 1976395       | Cadmium   | 102     | 102     | P/P       | 75 - 125       |
| 1976395       | Chromium  | 95.9    | 96.1    | P/P       | 75 - 125       |
| 1976395       | Copper    | 94.9    | 95.3    | P/P       | 75 - 125       |
| 1976395       | Lead      | 101     | 103     | P/P       | 75 - 125       |
| 1976395       | Nickel    | 94.9    | 95.5    | P/P       | 75 - 125       |
| 1976395       | Silver    | 96.7    | 96.0    | P/P       | 75 - 125       |
| 1977054       | Arsenic   | 96.6    |         | P         | 80 - 120       |
| 1977054       | Cadmium   | 104     |         | P         | 80 - 120       |
| 1977054       | Chromium  | 98.2    |         | P         | 80 - 120       |
| 1977054       | Copper    | 97.2    |         | P         | 80 - 120       |
| 1977054       | Lead      | 102     |         | P         | 80 - 120       |
| 1977054       | Nickel    | 95.9    |         | P         | 80 - 120       |
| 1977054       | Silver    | 96.5    |         | P         | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P344500

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1988504       | Arsenic   | 101     | 101     | P/P       | 80 - 120       |
| 1988504       | Cadmium   | 94.8    | 93.4    | P/P       | 80 - 120       |
| 1988504       | Chromium  | 87.3    | 86.9    | P/P       | 80 - 120       |
| 1988504       | Copper    | 92.2    | 92.6    | P/P       | 80 - 120       |
| 1988504       | Lead      | 94.2    | 93.6    | P/P       | 80 - 120       |
| 1988504       | Nickel    | 91.9    | 91.0    | P/P       | 80 - 120       |
| 1988504       | Silver    | 92.3    | 92.1    | P/P       | 80 - 120       |

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P342311

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976685       | Chloride  | 101     | 98.4    | P/P       | 90 - 110       |
| 1976751       | Chloride  | 95.4    |         | P         | 90 - 110       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342312

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976970       | Chloride  | 100     |         | P         | 90 - 110       |
| 1977112       | Chloride  | 96.6    |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342313

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976685       | Sulfate   | 101     | 97.9    | P/P       | 90 - 110       |
| 1976751       | Sulfate   | 97.9    |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P342314

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976970       | Sulfate   | 103     |         | P         | 90 - 110       |
| 1977112       | Sulfate   | 98.2    |         | P         | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P342305

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976975       | Ammonia-N | 98.4    | 100     | P/P       | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P342168

| Spiked Sample | Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 1976979       | Kjeldahl Nitrogen | 103     | 98.2    | P/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P342255

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976975       | NO2NO3-N  | 105     | 106     | P/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P342339

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1978101       | NO2NO3-N  | 105     | 106     | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P342188

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976979       | Total-P   | 96.4    | 101     | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P342085

| Spiked Sample | Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------|---------|---------|-----------|----------------|
| 1976792       | O-Phosphate-P | 97.4    | 98.3    | P/P       | 90 - 110       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P342308

| Spiked Sample | Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------------|---------|---------|-----------|----------------|
| 1977012       | Acetochlor          | 86.8    | 81.9    | P/P       | 67 - 125       |
| 1977012       | Alachlor            | 77.6    | 71.3    | P/P       | 69 - 123       |
| 1977012       | Ametryn             | 88.5    | 83.4    | P/P       | 52 - 151       |
| 1977012       | Atrazine Desethyl   | 91.2    | 84.7    | P/P       | 10 - 129       |
| 1977012       | Azinphos Methyl     | 110     | 107     | P/P       | 48 - 200       |
| 1977012       | Bromacil            | 80.3    | 77.2    | P/P       | 46 - 130       |
| 1977012       | Butylate            | 34.1    | 27.0    | P/P       | 10 - 85.0      |
| 1977012       | Chlorpyrifos Ethyl  | 81.0    | 73.7    | P/P       | 54 - 115       |
| 1977012       | Chlorpyrifos Methyl | 88.5    | 87.6    | P/P       | 44 - 117       |
| 1977012       | Cyanazine           | 203     | 190     | P/P       | 10 - 262       |
| 1977012       | Demeton             | 47.9    | 47.8    | P/P       | 24 - 145       |
| 1977012       | Diazinon            | 97.5    | 90.1    | P/P       | 66 - 129       |
| 1977012       | Disulfoton          | 84.0    | 77.6    | P/P       | 45 - 139       |
| 1977012       | EPTC                | 34.2    | 27.9    | P/P       | 10 - 86.0      |
| 1977012       | Ethion              | 92.1    | 86.8    | P/P       | 59 - 133       |
| 1977012       | Ethoprop            | 90.9    | 89.5    | P/P       | 54 - 116       |
| 1977012       | Fenamiphos          | 85.6    | 81.4    | P/P       | 55 - 140       |
| 1977012       | Fipronil            | 90.3    | 88.4    | P/P       | 37 - 142       |
| 1977012       | Fipronil Sulfide    | 84.2    | 81.3    | P/P       | 37 - 130       |
| 1977012       | Fonofos             | 85.7    | 82.4    | P/P       | 55 - 118       |
| 1977012       | Hexazinone          | 105     | 103     | P/P       | 62 - 140       |
| 1977012       | Malathion           | 97.8    | 98.5    | P/P       | 64 - 132       |
| 1977012       | Metalaxyl           | 84.0    | 78.3    | P/P       | 55 - 129       |
| 1977012       | Metolachlor         | 83.4    | 76.2    | P/P       | 56 - 137       |
| 1977012       | Metribuzin          | 191     | 182     | P/P       | 16 - 218       |
| 1977012       | Mevinphos           | 74.8    | 72.4    | P/P       | 34 - 129       |
| 1977012       | Molinate            | 44.5    | 37.2    | P/P       | 16 - 99.0      |
| 1977012       | Norflurazon         | 81.0    | 83.3    | P/P       | 43 - 135       |
| 1977012       | Parathion Ethyl     | 94.8    | 89.7    | P/P       | 71 - 112       |
| 1977012       | Parathion Methyl    | 102     | 102     | P/P       | 65 - 127       |
| 1977012       | Pendimethalin       | 112     | 103     | P/P       | 35 - 159       |
| 1977012       | Phorate             | 71.5    | 71.9    | P/P       | 41 - 129       |
| 1977012       | Prometon            | 90.3    | 85.5    | P/P       | 56 - 140       |
| 1977012       | Prometryn           | 83.7    | 74.8    | P/P       | 65 - 130       |
| 1977012       | Terbufos            | 87.5    | 84.4    | P/P       | 53 - 126       |
| 1977012       | Terbutylazine       | 89.7    | 86.4    | P/P       | 73 - 114       |

Reference Method: EPA 8270D

Batch ID: P342367

| Spiked Sample | Component       | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------------|---------|---------|-----------|----------------|
| 1977359       | Aldrin          | 72.4    | 72.4    | P/P       | 26 - 96.0      |
| 1977359       | Alpha-BHC       | 92.6    | 94.6    | P/P       | 51 - 123       |
| 1977359       | Alpha-Chlordane | 89.6    | 91.9    | P/P       | 45 - 120       |
| 1977359       | Beta-BHC        | 109     | 102     | P/P       | 43 - 146       |
| 1977359       | Carbophenothion | 117     | 125     | P/P       | 26 - 179       |
| 1977359       | Chlorothalonil  | 141     | 141     | P/P       | 10 - 215       |
| 1977359       | Cypermethrin    | 99.7    | 103     | P/P       | 35 - 169       |
| 1977359       | DDD-p,p'        | 97.6    | 102     | P/P       | 49 - 131       |
| 1977359       | DDE-p,p'        | 92.9    | 85.3    | P/P       | 39 - 127       |
| 1977359       | DDT-p,p'        | 98.0    | 93.0    | P/P       | 49 - 120       |
| 1977359       | Delta-BHC       | 114     | 121     | P/P       | 49 - 187       |

## Quality Assurance Report

### Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P342367

| Spiked Sample | Component          | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------------|---------|---------|-----------|----------------|
| 1977359       | Dicofol            | 102     | 82.6    | P/P       | 10 - 129       |
| 1977359       | Dieldrin           | 90.5    | 93.9    | P/P       | 46 - 132       |
| 1977359       | Endosulfan I       | 116     | 103     | P/P       | 57 - 130       |
| 1977359       | Endosulfan II      | 107     | 118     | P/P       | 52 - 148       |
| 1977359       | Endosulfan Sulfate | 111     | 116     | P/P       | 55 - 129       |
| 1977359       | Endrin             | 93.4    | 83.2    | P/P       | 45 - 133       |
| 1977359       | Endrin Aldehyde    | 87.0    | 84.1    | P/P       | 26 - 140       |
| 1977359       | Endrin Ketone      | 106     | 112     | P/P       | 60 - 125       |
| 1977359       | Gamma-BHC          | 107     | 97.4    | P/P       | 50 - 145       |
| 1977359       | Gamma-Chlordane    | 88.5    | 91.7    | P/P       | 44 - 118       |
| 1977359       | Heptachlor         | 76.3    | 74.6    | P/P       | 35 - 106       |
| 1977359       | Heptachlor Epoxide | 89.9    | 92.1    | P/P       | 52 - 123       |
| 1977359       | Methoxychlor       | 114     | 109     | P/P       | 54 - 132       |
| 1977359       | Mirex              | 86.9    | 86.5    | P/P       | 36 - 107       |
| 1977359       | Permethrin         | 96.6    | 96.2    | P/P       | 47 - 135       |
| 1977359       | Trifluralin        | 83.7    | 83.9    | P/P       | 32 - 228       |

Reference Method: EPA 8276

Batch ID: P342367

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1977011       | Chlordane | 68.3    | 72.3    | P/P       | 41 - 134       |
| 1977011       | Toxaphene | 97.9    | 94.0    | P/P       | 39 - 158       |

Reference Method: EPA 8321B

Batch ID: P342018

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976670       | Sucralose | 94.0    | 104     | P/P       | 40 - 150       |

Reference Method: EPA 8321B

Batch ID: P342060

| Spiked Sample | Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------------|---------|---------|-----------|----------------|
| 1976869       | 2,4-D               | 66.8    | 74.0    | P/P       | 40 - 150       |
| 1976869       | 3-Hydroxycarbofuran | 114     | 109     | P/P       | 40 - 150       |
| 1976869       | Acetaminophen       | 127     | 122     | P/P       | 30 - 150       |
| 1976869       | Aldicarb            | 98.1    | 87.7    | P/P       | 30 - 150       |
| 1976869       | Aldicarb Sulfone    | 127     | 125     | P/P       | 40 - 150       |
| 1976869       | Aldicarb Sulfoxide  | 92.4    | 85.5    | P/P       | 40 - 150       |
| 1976869       | Bentazon            | 21.7    | 21.5    | F/F       | 30 - 150       |
| 1976869       | Carbamazepine       | 76.4    | 71.8    | P/P       | 40 - 150       |
| 1976869       | Carbaryl            | 56.4    | 52.6    | P/P       | 40 - 150       |
| 1976869       | Carbofuran          | 56.3    | 53.5    | P/P       | 40 - 150       |
| 1976869       | Diuron              | 69.4    | 72.3    | P/P       | 40 - 150       |
| 1976869       | Fenuron             | 96.0    | 86.2    | P/P       | 40 - 150       |
| 1976869       | Fluridone           | 58.0    | 59.2    | P/P       | 40 - 150       |
| 1976869       | Imazapyr            | 46.7    | 57.6    | P/P       | 40 - 150       |
| 1976869       | Imidacloprid        | 192     | 196     | F/F       | 40 - 160       |
| 1976869       | Linuron             | 80.5    | 85.5    | P/P       | 40 - 150       |
| 1976869       | MCP                 | 57.3    | 61.0    | P/P       | 40 - 150       |
| 1976869       | Methiocarb          | 68.4    | 68.6    | P/P       | 40 - 150       |



## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B  
Batch ID: P342060

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 1976869       | Methomyl       | 85.2    | 82.3    | P/P       | 40 - 150       |
| 1976869       | Oxamyl         | 103     | 94.6    | P/P       | 40 - 150       |
| 1976869       | Primidone      | 115     | 111     | P/P       | 40 - 150       |
| 1976869       | Propoxur       | 48.4    | 45.1    | P/P       | 40 - 150       |
| 1976869       | Pyraclostrobin | 70.9    | 70.0    | P/P       | 40 - 150       |
| 1976869       | Triclopyr      | 54.1    | 53.6    | P/P       | 40 - 150       |

Reference Method: EPA 8321B  
Batch ID: P342108

| Spiked Sample | Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------|---------|---------|-----------|----------------|
| 1976904       | AMPA       | 95.4    | 99.6    | P/P       | 40 - 150       |
| 1976904       | Glyphosate | 102     | 88.8    | P/P       | 40 - 150       |

Reference Method: SM 4500 F-C-97  
Batch ID: P342537

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 1976973       | Fluoride  | 95.2    | 94.7    | P/P       | 91 - 105       |

Reference Method: SM 5310 B-00  
Batch ID: P342761

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 1976534       | Organic Carbon | 102     | 103     | P/P       | 85 - 115       |

## Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P342050

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976970                  | Turbidity | 0.717     | Sample            | P         | 0 - 20         |

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P342166

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976395                  | Calcium   | 1.16      | Spike             | P         | 0 - 20         |
| 1976395                  | Iron      | 1.48      | Spike             | P         | 0 - 20         |
| 1976395                  | Magnesium | 1.58      | Spike             | P         | 0 - 20         |
| 1976395                  | Potassium | 0.413     | Spike             | P         | 0 - 20         |
| 1976395                  | Sodium    | 0.398     | Spike             | P         | 0 - 20         |
| 1976395                  | Zinc      | 0.0347    | Spike             | P         | 0 - 20         |

## Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4  
 Batch ID: P342166

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976395                  | Arsenic   | 0.312     | Spike             | P         | 0 - 20         |
| 1976395                  | Cadmium   | 0.552     | Spike             | P         | 0 - 20         |
| 1976395                  | Chromium  | 0.158     | Spike             | P         | 0 - 20         |
| 1976395                  | Copper    | 0.403     | Spike             | P         | 0 - 20         |
| 1976395                  | Lead      | 1.17      | Spike             | P         | 0 - 20         |
| 1976395                  | Nickel    | 0.614     | Spike             | P         | 0 - 20         |
| 1976395                  | Silver    | 0.702     | Spike             | P         | 0 - 20         |

Reference Method: EPA 200.8 Rev. 5.4  
 Batch ID: P344500

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1988504                  | Arsenic   | 0.393     | Spike             | P         | 0 - 20         |
| 1988504                  | Cadmium   | 1.46      | Spike             | P         | 0 - 20         |
| 1988504                  | Chromium  | 0.517     | Spike             | P         | 0 - 20         |
| 1988504                  | Copper    | 0.400     | Spike             | P         | 0 - 20         |
| 1988504                  | Lead      | 0.655     | Spike             | P         | 0 - 20         |
| 1988504                  | Nickel    | 1.00      | Spike             | P         | 0 - 20         |
| 1988504                  | Silver    | 0.277     | Spike             | P         | 0 - 20         |

Reference Method: EPA 300.0 Rev. 2.1  
 Batch ID: P342311

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976685                  | Chloride  | 2.16      | Spike             | P         | 0 - 20         |

Reference Method: EPA 300.0 Rev. 2.1  
 Batch ID: P342312

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976970                  | Chloride  | 1.89      | Sample            | P         | 0 - 20         |

Reference Method: EPA 300.0 Rev. 2.1  
 Batch ID: P342313

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976685                  | Sulfate   | 3.39      | Spike             | P         | 0 - 20         |

Reference Method: EPA 300.0 Rev. 2.1  
 Batch ID: P342314

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976970                  | Sulfate   | 2.53      | Sample            | P         | 0 - 20         |

## Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P342305

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976975                  | Ammonia-N | 1.67      | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P342168

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 1976979                  | Kjeldahl Nitrogen | 3.36      | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P342255

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976975                  | NO2NO3-N  | 1.42      | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P342339

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1978101                  | NO2NO3-N  | 0.877     | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P342188

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976979                  | Total-P   | 3.05      | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P342085

| Replicated<br>Lab Sample | Component     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------|-----------|-------------------|-----------|----------------|
| 1976792                  | O-Phosphate-P | 0.920     | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P342087

| Replicated<br>Lab Sample | Component     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------|-----------|-------------------|-----------|----------------|
| 1976984                  | O-Phosphate-P | 0.841     | Spike             | P         | 0 - 20         |

Reference Method: EPA 8270D  
Batch ID: P342308

| Replicated<br>Lab Sample | Component  | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------|-----------|-------------------|-----------|----------------|
| 1977012                  | Acetochlor | 5.86      | Spike             | P         | 0 - 30         |
| 1977012                  | Alachlor   | 8.41      | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P342308

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 1977012                  | Ametryn             | 5.96      | Spike             | P         | 0 - 30         |
| 1977012                  | Atrazine            | 13.6      | Spike             | P         | 0 - 30         |
| 1977012                  | Atrazine Desethyl   | 4.65      | Spike             | P         | 0 - 30         |
| 1977012                  | Azinphos Methyl     | 2.56      | Spike             | P         | 0 - 30         |
| 1977012                  | Bromacil            | 2.54      | Spike             | P         | 0 - 30         |
| 1977012                  | Butylate            | 23.2      | Spike             | P         | 0 - 30         |
| 1977012                  | Chlorpyrifos Ethyl  | 9.36      | Spike             | P         | 0 - 30         |
| 1977012                  | Chlorpyrifos Methyl | 1.07      | Spike             | P         | 0 - 30         |
| 1977012                  | Cyanazine           | 6.73      | Spike             | P         | 0 - 30         |
| 1977012                  | Demeton             | 0.157     | Spike             | P         | 0 - 30         |
| 1977012                  | Diazinon            | 7.92      | Spike             | P         | 0 - 30         |
| 1977012                  | Disulfoton          | 7.91      | Spike             | P         | 0 - 30         |
| 1977012                  | EPTC                | 20.1      | Spike             | P         | 0 - 30         |
| 1977012                  | Ethion              | 5.97      | Spike             | P         | 0 - 30         |
| 1977012                  | Ethoprop            | 1.51      | Spike             | P         | 0 - 30         |
| 1977012                  | Fenamiphos          | 5.00      | Spike             | P         | 0 - 30         |
| 1977012                  | Fipronil            | 1.11      | Spike             | P         | 0 - 30         |
| 1977012                  | Fipronil Sulfide    | 2.40      | Spike             | P         | 0 - 30         |
| 1977012                  | Fipronil Sulfone    | 6.41      | Spike             | P         | 0 - 30         |
| 1977012                  | Fonofos             | 3.92      | Spike             | P         | 0 - 30         |
| 1977012                  | Hexazinone          | 2.50      | Spike             | P         | 0 - 30         |
| 1977012                  | Malathion           | 0.716     | Spike             | P         | 0 - 30         |
| 1977012                  | Metaxyl             | 6.92      | Spike             | P         | 0 - 30         |
| 1977012                  | Metolachlor         | 8.38      | Spike             | P         | 0 - 30         |
| 1977012                  | Metribuzin          | 4.71      | Spike             | P         | 0 - 30         |
| 1977012                  | Mevinphos           | 3.28      | Spike             | P         | 0 - 30         |
| 1977012                  | Molinate            | 18.0      | Spike             | P         | 0 - 30         |
| 1977012                  | Norflurazon         | 2.83      | Spike             | P         | 0 - 30         |
| 1977012                  | Parathion Ethyl     | 5.48      | Spike             | P         | 0 - 30         |
| 1977012                  | Parathion Methyl    | 0.188     | Spike             | P         | 0 - 30         |
| 1977012                  | Pendimethalin       | 8.53      | Spike             | P         | 0 - 30         |
| 1977012                  | Phorate             | 0.481     | Spike             | P         | 0 - 30         |
| 1977012                  | Prometon            | 5.44      | Spike             | P         | 0 - 30         |
| 1977012                  | Prometryn           | 11.3      | Spike             | P         | 0 - 30         |
| 1977012                  | Simazine            | 8.20      | Spike             | P         | 0 - 30         |
| 1977012                  | Terbufos            | 3.54      | Spike             | P         | 0 - 30         |
| 1977012                  | Terbuthylazine      | 3.72      | Spike             | P         | 0 - 30         |
| LFB                      | Acetochlor          | 1.10      | LCS               | P         | 0 - 30         |
| LFB                      | Alachlor            | 2.20      | LCS               | P         | 0 - 30         |
| LFB                      | Ametryn             | 1.04      | LCS               | P         | 0 - 30         |
| LFB                      | Atrazine            | 6.99      | LCS               | P         | 0 - 30         |
| LFB                      | Atrazine Desethyl   | 6.67      | LCS               | P         | 0 - 30         |
| LFB                      | Azinphos Methyl     | 6.71      | LCS               | P         | 0 - 30         |
| LFB                      | Bromacil            | 12.3      | LCS               | P         | 0 - 30         |
| LFB                      | Butylate            | 37.5      | LCS               | F         | 0 - 30         |
| LFB                      | Chlorpyrifos Ethyl  | 4.19      | LCS               | P         | 0 - 30         |
| LFB                      | Chlorpyrifos Methyl | 0.721     | LCS               | P         | 0 - 30         |
| LFB                      | Cyanazine           | 3.91      | LCS               | P         | 0 - 30         |
| LFB                      | Demeton             | 12.3      | LCS               | P         | 0 - 30         |
| LFB                      | Diazinon            | 1.37      | LCS               | P         | 0 - 30         |
| LFB                      | Disulfoton          | 4.63      | LCS               | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P342308

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| LFB                      | EPTC             | 45.0      | LCS               | F         | 0 - 30         |
| LFB                      | Ethion           | 1.06      | LCS               | P         | 0 - 30         |
| LFB                      | Ethoprop         | 8.15      | LCS               | P         | 0 - 30         |
| LFB                      | Fenamiphos       | 0.859     | LCS               | P         | 0 - 30         |
| LFB                      | Fipronil         | 3.62      | LCS               | P         | 0 - 30         |
| LFB                      | Fipronil Sulfide | 1.65      | LCS               | P         | 0 - 30         |
| LFB                      | Fipronil Sulfone | 1.81      | LCS               | P         | 0 - 30         |
| LFB                      | Fonofos          | 4.98      | LCS               | P         | 0 - 30         |
| LFB                      | Hexazinone       | 6.75      | LCS               | P         | 0 - 30         |
| LFB                      | Malathion        | 1.70      | LCS               | P         | 0 - 30         |
| LFB                      | Metalaxyl        | 5.75      | LCS               | P         | 0 - 30         |
| LFB                      | Metolachlor      | 6.69      | LCS               | P         | 0 - 30         |
| LFB                      | Metribuzin       | 4.62      | LCS               | P         | 0 - 30         |
| LFB                      | Mevinphos        | 11.5      | LCS               | P         | 0 - 30         |
| LFB                      | Molinate         | 31.7      | LCS               | F         | 0 - 30         |
| LFB                      | Norflurazon      | 6.11      | LCS               | P         | 0 - 30         |
| LFB                      | Parathion Ethyl  | 3.14      | LCS               | P         | 0 - 30         |
| LFB                      | Parathion Methyl | 3.62      | LCS               | P         | 0 - 30         |
| LFB                      | Pendimethalin    | 1.06      | LCS               | P         | 0 - 30         |
| LFB                      | Phorate          | 3.23      | LCS               | P         | 0 - 30         |
| LFB                      | Prometon         | 1.80      | LCS               | P         | 0 - 30         |
| LFB                      | Prometryn        | 1.20      | LCS               | P         | 0 - 30         |
| LFB                      | Simazine         | 3.09      | LCS               | P         | 0 - 30         |
| LFB                      | Terbufos         | 3.99      | LCS               | P         | 0 - 30         |
| LFB                      | Terbuthylazine   | 4.17      | LCS               | P         | 0 - 30         |

Reference Method: EPA 8270D

Batch ID: P342367

| Replicated<br>Lab Sample | Component          | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------------|-----------|-------------------|-----------|----------------|
| 1977359                  | Aldrin             | 0.0877    | Spike             | P         | 0 - 30         |
| 1977359                  | Alpha-BHC          | 2.03      | Spike             | P         | 0 - 30         |
| 1977359                  | Alpha-Chlordane    | 2.56      | Spike             | P         | 0 - 30         |
| 1977359                  | Beta-BHC           | 6.65      | Spike             | P         | 0 - 30         |
| 1977359                  | Carbophenothion    | 6.29      | Spike             | P         | 0 - 30         |
| 1977359                  | Chlorothalonil     | 0.0124    | Spike             | P         | 0 - 30         |
| 1977359                  | Cypermethrin       | 3.21      | Spike             | P         | 0 - 30         |
| 1977359                  | DDD-p,p'           | 4.55      | Spike             | P         | 0 - 30         |
| 1977359                  | DDE-p,p'           | 8.54      | Spike             | P         | 0 - 30         |
| 1977359                  | DDT-p,p'           | 5.22      | Spike             | P         | 0 - 30         |
| 1977359                  | Delta-BHC          | 5.77      | Spike             | P         | 0 - 30         |
| 1977359                  | Dicofol            | 20.6      | Spike             | P         | 0 - 30         |
| 1977359                  | Dieldrin           | 3.71      | Spike             | P         | 0 - 30         |
| 1977359                  | Endosulfan I       | 12.3      | Spike             | P         | 0 - 30         |
| 1977359                  | Endosulfan II      | 9.56      | Spike             | P         | 0 - 30         |
| 1977359                  | Endosulfan Sulfate | 3.95      | Spike             | P         | 0 - 30         |
| 1977359                  | Endrin             | 11.6      | Spike             | P         | 0 - 30         |
| 1977359                  | Endrin Aldehyde    | 3.37      | Spike             | P         | 0 - 30         |
| 1977359                  | Endrin Ketone      | 4.75      | Spike             | P         | 0 - 30         |
| 1977359                  | Gamma-BHC          | 9.07      | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P342367

| Replicated<br>Lab Sample | Component          | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------------|-----------|-------------------|-----------|----------------|
| 1977359                  | Gamma-Chlordane    | 3.56      | Spike             | P         | 0 - 30         |
| 1977359                  | Heptachlor         | 2.28      | Spike             | P         | 0 - 30         |
| 1977359                  | Heptachlor Epoxide | 2.37      | Spike             | P         | 0 - 30         |
| 1977359                  | Methoxychlor       | 4.17      | Spike             | P         | 0 - 30         |
| 1977359                  | Mirex              | 0.516     | Spike             | P         | 0 - 30         |
| 1977359                  | Permethrin         | 0.439     | Spike             | P         | 0 - 30         |
| 1977359                  | Trifluralin        | 0.260     | Spike             | P         | 0 - 30         |
| LFB                      | Aldrin             | 1.79      | LCS               | P         | 0 - 30         |
| LFB                      | Alpha-BHC          | 4.36      | LCS               | P         | 0 - 30         |
| LFB                      | Alpha-Chlordane    | 5.88      | LCS               | P         | 0 - 30         |
| LFB                      | Beta-BHC           | 9.58      | LCS               | P         | 0 - 30         |
| LFB                      | Carbophenothion    | 1.99      | LCS               | P         | 0 - 30         |
| LFB                      | Chlorothalonil     | 8.73      | LCS               | P         | 0 - 30         |
| LFB                      | Cypermethrin       | 0.640     | LCS               | P         | 0 - 30         |
| LFB                      | DDD-p,p'           | 3.88      | LCS               | P         | 0 - 30         |
| LFB                      | DDE-p,p'           | 3.55      | LCS               | P         | 0 - 30         |
| LFB                      | DDT-p,p'           | 2.13      | LCS               | P         | 0 - 30         |
| LFB                      | Delta-BHC          | 4.54      | LCS               | P         | 0 - 30         |
| LFB                      | Dicofol            | 5.48      | LCS               | P         | 0 - 30         |
| LFB                      | Dieldrin           | 6.47      | LCS               | P         | 0 - 30         |
| LFB                      | Endosulfan I       | 6.09      | LCS               | P         | 0 - 30         |
| LFB                      | Endosulfan II      | 3.94      | LCS               | P         | 0 - 30         |
| LFB                      | Endosulfan Sulfate | 0.386     | LCS               | P         | 0 - 30         |
| LFB                      | Endrin             | 14.9      | LCS               | P         | 0 - 30         |
| LFB                      | Endrin Aldehyde    | 1.41      | LCS               | P         | 0 - 30         |
| LFB                      | Endrin Ketone      | 1.34      | LCS               | P         | 0 - 30         |
| LFB                      | Gamma-BHC          | 7.87      | LCS               | P         | 0 - 30         |
| LFB                      | Gamma-Chlordane    | 3.34      | LCS               | P         | 0 - 30         |
| LFB                      | Heptachlor         | 1.15      | LCS               | P         | 0 - 30         |
| LFB                      | Heptachlor Epoxide | 6.42      | LCS               | P         | 0 - 30         |
| LFB                      | Methoxychlor       | 3.80      | LCS               | P         | 0 - 30         |
| LFB                      | Mirex              | 1.17      | LCS               | P         | 0 - 30         |
| LFB                      | Permethrin         | 1.13      | LCS               | P         | 0 - 30         |
| LFB                      | Trifluralin        | 2.67      | LCS               | P         | 0 - 30         |

Reference Method: EPA 8276

Batch ID: P342367

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1977011                  | Chlordane | 5.66      | Spike             | P         | 0 - 30         |
| 1977011                  | Toxaphene | 3.99      | Spike             | P         | 0 - 30         |
| LFB                      | Chlordane | 12.4      | LCS               | P         | 0 - 30         |
| LFB                      | Toxaphene | 3.75      | LCS               | P         | 0 - 30         |

Reference Method: EPA 8321B

Batch ID: P342018

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976670                  | Sucralose | 9.21      | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P342060

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 1976869                  | 2,4-D               | 8.80      | Spike             | P         | 0 - 30         |
| 1976869                  | 3-Hydroxycarbofuran | 3.83      | Spike             | P         | 0 - 30         |
| 1976869                  | Acetaminophen       | 3.77      | Spike             | P         | 0 - 30         |
| 1976869                  | Aldicarb            | 11.2      | Spike             | P         | 0 - 30         |
| 1976869                  | Aldicarb Sulfone    | 1.17      | Spike             | P         | 0 - 30         |
| 1976869                  | Aldicarb Sulfoxide  | 7.68      | Spike             | P         | 0 - 30         |
| 1976869                  | Bentazon            | 0.967     | Spike             | P         | 0 - 30         |
| 1976869                  | Carbamazepine       | 6.26      | Spike             | P         | 0 - 30         |
| 1976869                  | Carbaryl            | 6.95      | Spike             | P         | 0 - 30         |
| 1976869                  | Carbofuran          | 5.14      | Spike             | P         | 0 - 30         |
| 1976869                  | Diuron              | 4.12      | Spike             | P         | 0 - 30         |
| 1976869                  | Fenuron             | 10.7      | Spike             | P         | 0 - 30         |
| 1976869                  | Fluridone           | 2.03      | Spike             | P         | 0 - 30         |
| 1976869                  | Imazapyr            | 15.2      | Spike             | P         | 0 - 30         |
| 1976869                  | Imidacloprid        | 1.96      | Spike             | P         | 0 - 30         |
| 1976869                  | Linuron             | 6.00      | Spike             | P         | 0 - 30         |
| 1976869                  | MCPP                | 6.23      | Spike             | P         | 0 - 30         |
| 1976869                  | Methiocarb          | 0.304     | Spike             | P         | 0 - 30         |
| 1976869                  | Methomyl            | 3.41      | Spike             | P         | 0 - 30         |
| 1976869                  | Oxamyl              | 8.18      | Spike             | P         | 0 - 30         |
| 1976869                  | Primidone           | 3.27      | Spike             | P         | 0 - 30         |
| 1976869                  | Propoxur            | 6.95      | Spike             | P         | 0 - 30         |
| 1976869                  | Pyraclostrobin      | 1.21      | Spike             | P         | 0 - 30         |
| 1976869                  | Triclopyr           | 0.781     | Spike             | P         | 0 - 30         |

Reference Method: EPA 8321B

Batch ID: P342108

| Replicated<br>Lab Sample | Component  | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------|-----------|-------------------|-----------|----------------|
| 1976904                  | AMPA       | 4.36      | Spike             | P         | 0 - 30         |
| 1976904                  | Glyphosate | 13.4      | Spike             | P         | 0 - 30         |

Reference Method: SM 2120 B

Batch ID: P342054

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 1976842                  | Color (true) | 1.64      | Sample            | P         | 0 - 20         |

Reference Method: SM 2120 B

Batch ID: P342055

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 1976970                  | Color (true) | 2.33      | Sample            | P         | 0 - 20         |

## Quality Assurance Report Precision

Reference Method: SM 2120 B  
Batch ID: P342057

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 1976684                  | Color (true) | 1.72      | Sample            | P         | 0 - 20         |

Reference Method: SM 2320 B-97  
Batch ID: P342474

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 1976973                  | Total Alkalinity | 0.0630    | Sample            | P         | 0 - 1.6        |

Reference Method: SM 2540 C-97  
Batch ID: P342382

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1977036                  | TDS       | 1.05      | Sample            | P         | 0 - 10         |

Reference Method: SM 4500 F-C-97  
Batch ID: P342537

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 1976973                  | Fluoride  | 0.467     | Spike             | P         | 0 - 3.5        |

Reference Method: SM 5310 B-00  
Batch ID: P342761

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 1976534                  | Organic Carbon | 0.655     | Spike             | P         | 0 - 20         |

\* Sample, spike and/or laboratory control sample precision (LCS) is reported.  
Replicate spike precision may be reported when sample results are below quantifiable levels.

## Quality Assurance Report Surrogates

Lab Sample ID: 1977005  
Field Sample ID: G1WA0072

| Reference Method | Surrogate         | % Rec. | Pass/Fail | Control Limits |
|------------------|-------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3          | 91.6   | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4  | 119    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10 | 98.6   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6         | 79.2   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5      | 113    | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6      | 113    | P         | 40 - 160       |



## Quality Assurance Report Surrogates

Lab Sample ID: 1977006  
Field Sample ID: G1WA0031

| Reference Method | Surrogate         | % Rec. | Pass/Fail | Control Limits |
|------------------|-------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3          | 95.1   | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4  | 130    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10 | 88.1   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6         | 81.3   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5      | 114    | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6      | 116    | P         | 40 - 160       |

Lab Sample ID: 1977007  
Field Sample ID: G1WA0001

| Reference Method | Surrogate         | % Rec. | Pass/Fail | Control Limits |
|------------------|-------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3          | 100    | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4  | 128    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10 | 103    | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6         | 81.4   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5      | 89.8   | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6      | 107    | P         | 40 - 160       |

Lab Sample ID: 1977008  
Field Sample ID: G1WA0033

| Reference Method | Surrogate         | % Rec. | Pass/Fail | Control Limits |
|------------------|-------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3          | 72.2   | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4  | 115    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10 | 71.2   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6         | 73.6   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5      | 105    | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6      | 90.4   | P         | 40 - 160       |

Lab Sample ID: 1977009  
Field Sample ID: G1WA0026

| Reference Method | Surrogate   | % Rec. | Pass/Fail | Control Limits |
|------------------|-------------|--------|-----------|----------------|
| EPA 8321B        | Carbaryl-d7 | 50.9   | P         | 30 - 160       |

Lab Sample ID: 1977010  
Field Sample ID: G1WA0026

| Reference Method | Surrogate          | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3           | 32.5   | P         | 30 - 160       |
| EPA 8321B        | 2,4-D-d3           | 32.5   | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 116    | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 116    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 84.2   | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 84.2   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 63.2   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 63.2   | P         | 30 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 92.6   | P         | 40 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 92.6   | P         | 40 - 160       |
| EPA 8321B        | Primidone-d5       | 98.7   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5       | 98.7   | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6       | 101    | P         | 40 - 160       |

## Quality Assurance Report Surrogates

Lab Sample ID: 1977011  
Field Sample ID: G1WA0026

| Reference Method | Surrogate            | % Rec. | Pass/Fail | Control Limits |
|------------------|----------------------|--------|-----------|----------------|
| EPA 8270D        | Decachlorobiphenyl   | 76.3   | P         | 37 - 117       |
| EPA 8270D        | Tetrachloro-m-xylene | 48.6   | P         | 34 - 101       |
| EPA 8276         | Decachlorobiphenyl   | 65.1   | P         | 31 - 108       |
| EPA 8276         | PCNB                 | 88.8   | P         | 62 - 142       |

Lab Sample ID: 1977012  
Field Sample ID: G1WA0026

| Reference Method | Surrogate    | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------|--------|-----------|----------------|
| EPA 8270D        | Simazine-d10 | 90.4   | P         | 71 - 126       |
| EPA 8270D        | Terbufos-d10 | 95.7   | P         | 59 - 149       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0  
Run ID: A82792  
Included Lab Sample IDs: 1976969, 1976970, 1976971, 1976972, 1976973, 1976974

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Turbidity | 100     | 99.5    | P/P        | 95 - 105       |
| Turbidity | 99.5    | 100     | P/P        | 95 - 105       |

Reference Method: SM 2120 B  
Run ID: A82793  
Included Lab Sample IDs: 1976969, 1976970, 1976971, 1976972, 1976973, 1976974

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Color (true) | 101     | 105     | P/P        | 85 - 115       |
| Color (true) | 103     | 103     | P/P        | 85 - 115       |
| Color (true) | 105     | 103     | P/P        | 85 - 115       |
| Color (true) | 99.5    | 100     | P/P        | 85 - 115       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Run ID: A82801  
Included Lab Sample IDs: 1976981, 1976982, 1976983, 1976984, 1976985, 1976986

| Component     | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------|---------|---------|------------|----------------|
| O-Phosphate-P | 100     | 100     | P/P        | 90 - 110       |
| O-Phosphate-P | 100     | 100     | P/P        | 90 - 110       |
| O-Phosphate-P | 100     | 100     | P/P        | 90 - 110       |

Reference Method: EPA 8321B  
Run ID: A82843  
Included Lab Sample IDs: 1977010

| Component  | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------|---------|---------|------------|----------------|
| AMPA       | 101     | 98.5    | P/P        | 70 - 130       |
| Glyphosate | 110     | 106     | P/P        | 70 - 160       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A82862

Included Lab Sample IDs: 1976976, 1976977, 1976978, 1976979, 1976980

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Total-P   | 101     | 101     | P/P        | 90 - 110       |
| Total-P   | 101     | 101     | P/P        | 90 - 110       |

Reference Method: EPA 8321B

Run ID: A82866

Included Lab Sample IDs: 1977005, 1977006, 1977007, 1977008, 1977010

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Sucralose | 94.1    | 94.2    | P/P        | 60 - 150       |
| Sucralose | 94.2    | 108     | P/P        | 60 - 150       |

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A82873

Included Lab Sample IDs: 1976975, 1976977, 1976978, 1976979, 1976980

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| NO2NO3-N  | 100     | 100     | P/P        | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A82880

Included Lab Sample IDs: 1976975, 1976976, 1976977, 1976978, 1976979, 1976980

| Component         | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Kjeldahl Nitrogen | 97.6    | 98.4    | P/P        | 90 - 110       |

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A82881

Included Lab Sample IDs: 1977013, 1977014

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Calcium   | 102     | 102     | P/P        | 90 - 110       |
| Iron      | 101     | 101     | P/P        | 90 - 110       |
| Magnesium | 101     | 101     | P/P        | 90 - 110       |
| Potassium | 99.1    | 98.8    | P/P        | 90 - 110       |
| Sodium    | 102     | 103     | P/P        | 90 - 110       |
| Zinc      | 102     | 104     | P/P        | 90 - 110       |

Reference Method: EPA 8321B

Run ID: A82884

Included Lab Sample IDs: 1977005, 1977006, 1977007, 1977008, 1977010

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| 2,4-D               | 92.1    | 93.4    | P/P        | 50 - 150       |
| 2,4-D               | 96.5    | 92.1    | P/P        | 50 - 150       |
| 3-Hydroxycarbofuran | 104     | 107     | P/P        | 60 - 150       |
| Acetaminophen       | 103     | 104     | P/P        | 60 - 150       |
| Acetaminophen       | 104     | 113     | P/P        | 60 - 150       |
| Aldicarb            | 118     | 123     | P/P        | 60 - 150       |
| Aldicarb Sulfone    | 105     | 108     | P/P        | 50 - 150       |
| Aldicarb Sulfoxide  | 103     | 104     | P/P        | 50 - 150       |
| Bentazon            | 97.4    | 88.0    | P/P        | 50 - 150       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A82884

Included Lab Sample IDs: 1977005, 1977006, 1977007, 1977008, 1977010

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Bentazon       | 99.6    | 97.4    | P/P        | 50 - 150       |
| Carbamazepine  | 100     | 111     | P/P        | 60 - 150       |
| Carbamazepine  | 91.6    | 100     | P/P        | 60 - 150       |
| Carbaryl       | 99.1    | 114     | P/P        | 60 - 150       |
| Carbofuran     | 98.5    | 102     | P/P        | 50 - 150       |
| Diuron         | 112     | 121     | P/P        | 60 - 150       |
| Diuron         | 118     | 112     | P/P        | 60 - 150       |
| Fenuron        | 96.7    | 100     | P/P        | 60 - 150       |
| Fenuron        | 100     | 99.6    | P/P        | 60 - 150       |
| Fluridone      | 109     | 108     | P/P        | 60 - 160       |
| Fluridone      | 110     | 109     | P/P        | 60 - 160       |
| Imazapyr       | 81.3    | 91.6    | P/P        | 50 - 150       |
| Imazapyr       | 91.6    | 80.6    | P/P        | 50 - 150       |
| Imidacloprid   | 103     | 97.5    | P/P        | 60 - 150       |
| Imidacloprid   | 98.2    | 103     | P/P        | 60 - 150       |
| Linuron        | 116     | 118     | P/P        | 60 - 150       |
| Linuron        | 124     | 116     | P/P        | 60 - 150       |
| MCPP           | 104     | 98.6    | P/P        | 50 - 150       |
| MCPP           | 107     | 104     | P/P        | 50 - 150       |
| Methiocarb     | 103     | 104     | P/P        | 50 - 150       |
| Methomyl       | 93.6    | 100     | P/P        | 50 - 150       |
| Oxamyl         | 101     | 109     | P/P        | 50 - 150       |
| Primidone      | 104     | 104     | P/P        | 60 - 150       |
| Primidone      | 104     | 99.1    | P/P        | 60 - 150       |
| Propoxur       | 93.5    | 94.8    | P/P        | 50 - 150       |
| Pyraclostrobin | 105     | 98.5    | P/P        | 60 - 150       |
| Pyraclostrobin | 98.5    | 102     | P/P        | 60 - 150       |
| Triclopyr      | 104     | 89.9    | P/P        | 50 - 150       |
| Triclopyr      | 89.9    | 89.9    | P/P        | 50 - 150       |

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A82886

Included Lab Sample IDs: 1977014

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Arsenic   | 94.6    | 94.6    | P/P        | 90 - 110       |
| Cadmium   | 97.1    | 97.9    | P/P        | 90 - 110       |
| Chromium  | 94.9    | 96.7    | P/P        | 90 - 110       |
| Copper    | 94.4    | 94.4    | P/P        | 90 - 110       |
| Lead      | 97.8    | 98.0    | P/P        | 90 - 110       |
| Nickel    | 94.9    | 93.9    | P/P        | 90 - 110       |
| Silver    | 100     | 101     | P/P        | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A82889

Included Lab Sample IDs: 1976975, 1976976, 1976977, 1976978, 1976979, 1976980

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Ammonia-N | 100     | 99.8    | P/P        | 90 - 110       |
| Ammonia-N | 99.8    | 100     | P/P        | 90 - 110       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A82892

Included Lab Sample IDs: 1976969, 1976970, 1976971, 1976972, 1976973, 1976974

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Chloride  | 101     | 102     | P/P        | 90 - 110       |
| Chloride  | 102     | 101     | P/P        | 90 - 110       |
| Sulfate   | 100     | 103     | P/P        | 90 - 110       |
| Sulfate   | 103     | 99.4    | P/P        | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A82906

Included Lab Sample IDs: 1976976

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| NO2NO3-N  | 102     | 101     | P/P        | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A82945

Included Lab Sample IDs: 1976975

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Total-P   | 99.5    | 99.2    | P/P        | 90 - 110       |

Reference Method: SM 2320 B-97

Run ID: A82950

Included Lab Sample IDs: 1976969, 1976970, 1976971, 1976972, 1976973, 1976974

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| Total Alkalinity | 96.4    | 100     | P/P        | 90 - 110       |
| Total Alkalinity | 98.6    | 96.4    | P/P        | 90 - 110       |

Reference Method: SM 4500 F-C-97

Run ID: A82967

Included Lab Sample IDs: 1976969, 1976970, 1976971, 1976972, 1976973, 1976974

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Fluoride  | 100     | 100     | P/P        | 90 - 110       |
| Fluoride  | 98.6    | 100     | P/P        | 90 - 110       |

Reference Method: EPA 8276

Run ID: A82971

Included Lab Sample IDs: 1977011

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Chlordane | 80.4    |         | P          | 80 - 120       |
| Toxaphene | 98.4    |         | P          | 80 - 120       |

Reference Method: EPA 8270D

Run ID: A83023

Included Lab Sample IDs: 1977011

| Component       | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------------|---------|---------|------------|----------------|
| Aldrin          | 97.2    |         | P          | 80 - 120       |
| Alpha-BHC       | 102     |         | P          | 80 - 120       |
| Alpha-Chlordane | 97.4    |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A83023

Included Lab Sample IDs: 1977011

| Component          | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------------|---------|---------|------------|----------------|
| Beta-BHC           | 94.0    |         | P          | 80 - 120       |
| Carbophenothion    | 85.0    |         | P          | 80 - 120       |
| Chlorothalonil     | 103     |         | P          | 80 - 120       |
| Cypermethrin       | 87.6    |         | P          | 80 - 120       |
| DDD-p,p'           | 97.2    |         | P          | 80 - 120       |
| DDE-p,p'           | 101     |         | P          | 80 - 120       |
| DDT-p,p'           | 105     |         | P          | 80 - 120       |
| Delta-BHC          | 97.3    |         | P          | 80 - 120       |
| Dicofol            | 101     |         | P          | 80 - 120       |
| Dieldrin           | 96.8    |         | P          | 80 - 120       |
| Endosulfan I       | 97.0    |         | P          | 80 - 120       |
| Endosulfan II      | 100     |         | P          | 80 - 120       |
| Endosulfan Sulfate | 95.5    |         | P          | 80 - 120       |
| Endrin             | 94.7    |         | P          | 80 - 120       |
| Endrin Aldehyde    | 89.7    |         | P          | 80 - 120       |
| Endrin Ketone      | 94.9    |         | P          | 80 - 120       |
| Gamma-BHC          | 97.4    |         | P          | 80 - 120       |
| Gamma-Chlordane    | 97.8    |         | P          | 80 - 120       |
| Heptachlor         | 94.8    |         | P          | 80 - 120       |
| Heptachlor Epoxide | 96.4    |         | P          | 80 - 120       |
| Methoxychlor       | 98.7    |         | P          | 80 - 120       |
| Mirex              | 97.2    |         | P          | 80 - 120       |
| Permethrin         | 94.6    |         | P          | 80 - 120       |
| Trifluralin        | 99.4    |         | P          | 80 - 120       |

Reference Method: SM 5310 B-00

Run ID: A83038

Included Lab Sample IDs: 1976975, 1976976, 1976977, 1976978, 1976979, 1976980

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Organic Carbon | 96.4    | 98.2    | P/P        | 90 - 110       |
| Organic Carbon | 97.8    | 96.4    | P/P        | 90 - 110       |

Reference Method: EPA 8270D

Run ID: A83227

Included Lab Sample IDs: 1977012

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Acetochlor          | 97.8    |         | P          | 80 - 120       |
| Alachlor            | 101     |         | P          | 80 - 120       |
| Ametryn             | 95.3    |         | P          | 80 - 120       |
| Atrazine Desethyl   | 108     |         | P          | 80 - 120       |
| Azinphos Methyl     | 101     |         | P          | 80 - 120       |
| Bromacil            | 100     |         | P          | 80 - 120       |
| Butylate            | 98.4    |         | P          | 80 - 120       |
| Chlorpyrifos Ethyl  | 97.7    |         | P          | 80 - 120       |
| Chlorpyrifos Methyl | 97.4    |         | P          | 80 - 120       |
| Cyanazine           | 128*    |         | F          | 80 - 120       |
| Demeton             | 93.8    |         | P          | 80 - 120       |
| Diazinon            | 98.0    |         | P          | 80 - 120       |
| Disulfoton          | 92.8    |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D  
 Run ID: A83227  
 Included Lab Sample IDs: 1977012

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| EPTC             | 98.7    |         | P          | 80 - 120       |
| Ethion           | 93.1    |         | P          | 80 - 120       |
| Ethoprop         | 101     |         | P          | 80 - 120       |
| Fenamiphos       | 94.1    |         | P          | 80 - 120       |
| Fipronil         | 96.8    |         | P          | 80 - 120       |
| Fipronil Sulfide | 94.7    |         | P          | 80 - 120       |
| Fipronil Sulfone | 94.0    |         | P          | 80 - 120       |
| Fonofos          | 98.3    |         | P          | 80 - 120       |
| Hexazinone       | 93.7    |         | P          | 80 - 120       |
| Malathion        | 97.5    |         | P          | 80 - 120       |
| Metalaxyl        | 95.7    |         | P          | 80 - 120       |
| Metolachlor      | 102     |         | P          | 80 - 120       |
| Metribuzin       | 111     |         | P          | 80 - 120       |
| Mevinphos        | 96.7    |         | P          | 80 - 120       |
| Molinate         | 99.6    |         | P          | 80 - 120       |
| Norflurazon      | 99.5    |         | P          | 80 - 120       |
| Parathion Ethyl  | 94.6    |         | P          | 80 - 120       |
| Parathion Methyl | 95.3    |         | P          | 80 - 120       |
| Pendimethalin    | 102     |         | P          | 80 - 120       |
| Phorate          | 98.2    |         | P          | 80 - 120       |
| Prometon         | 97.8    |         | P          | 80 - 120       |
| Prometryn        | 97.8    |         | P          | 80 - 120       |
| Simazine         | 99.0    |         | P          | 80 - 120       |
| Terbufos         | 95.2    |         | P          | 80 - 120       |
| Terbutylazine    | 96.5    |         | P          | 80 - 120       |

Reference Method: EPA 8270D  
 Run ID: A83250  
 Included Lab Sample IDs: 1977012

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Atrazine  | 96.6    |         | P          | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4  
 Run ID: A83648  
 Included Lab Sample IDs: 1977013

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Arsenic   | 106     | 104     | P/P        | 90 - 110       |
| Cadmium   | 102     | 101     | P/P        | 90 - 110       |
| Chromium  | 103     | 101     | P/P        | 90 - 110       |
| Copper    | 109     | 106     | P/P        | 90 - 110       |
| Lead      | 102     | 101     | P/P        | 90 - 110       |
| Nickel    | 105     | 103     | P/P        | 90 - 110       |
| Silver    | 104     | 102     | P/P        | 90 - 110       |

\* Pass/Fail determinations are made for each bracketing calibration verification check.  
 Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.  
 Where they are different, both control limits are provided.

## Quality Assurance Report Summary

| Ref. Method                  | Analyte                            | LCS % Recovery |      | MS % Recovery |      |       | LCS | Precision<br>SMP | MS     |
|------------------------------|------------------------------------|----------------|------|---------------|------|-------|-----|------------------|--------|
| EPA 180.1 Rev. 2.0           | Turbidity                          |                |      |               |      |       |     | 0.717            |        |
| EPA 200.7 Rev. 4.4           | Calcium                            | 104            |      | 105           |      |       |     |                  | 1.16   |
|                              | Iron                               | 107            |      | 106           | 103  | 105   |     |                  | 1.48   |
|                              | Magnesium                          | 103            |      | 108           | 104  |       |     |                  | 1.58   |
|                              | Potassium                          | 99.2           |      | 101           | 102  |       |     |                  | 0.413  |
|                              | Sodium                             | 103            |      | 108           | 102  |       |     |                  | 0.398  |
|                              | Zinc                               | 102            |      | 102           | 101  | 102   |     |                  | 0.0347 |
| EPA 200.8 Rev. 5.4           | Arsenic                            | 100            |      | 99.7          | 100  | 96.6  |     |                  | 0.312  |
|                              | Arsenic                            | 96.5           |      | 101           | 101  |       |     |                  | 0.393  |
|                              | Cadmium                            | 103            |      | 102           | 102  | 104   |     |                  | 0.552  |
|                              | Cadmium                            | 93.6           |      | 94.8          | 93.4 |       |     |                  | 1.46   |
|                              | Chromium                           | 101            |      | 95.9          | 96.1 | 98.2  |     |                  | 0.158  |
|                              | Chromium                           | 91.9           |      | 87.3          | 86.9 |       |     |                  | 0.517  |
|                              | Copper                             | 101            |      | 94.9          | 95.3 | 97.2  |     |                  | 0.403  |
|                              | Copper                             | 95.9           |      | 92.2          | 92.6 |       |     |                  | 0.400  |
|                              | Lead                               | 103            |      | 101           | 103  | 102   |     |                  | 1.17   |
|                              | Lead                               | 91.5           |      | 94.2          | 93.6 |       |     |                  | 0.655  |
|                              | Nickel                             | 101            |      | 94.9          | 95.5 | 95.9  |     |                  | 0.614  |
|                              | Nickel                             | 96.4           |      | 91.9          | 91.0 |       |     |                  | 1.00   |
|                              | Silver                             | 99.4           |      | 96.7          | 96.0 | 96.5  |     |                  | 0.702  |
|                              | Silver                             | 95.6           |      | 92.3          | 92.1 |       |     |                  | 0.277  |
| EPA 300.0 Rev. 2.1           | Chloride                           | 95.8           |      | 101           | 98.4 | 95.4  |     |                  | 2.16   |
|                              | Chloride                           | 99.1           |      | 100           | 96.6 |       |     | 1.89             |        |
|                              | Sulfate                            | 97.0           |      | 101           | 97.9 | 97.9  |     |                  | 3.39   |
|                              | Sulfate                            | 97.7           |      | 103           | 98.2 |       |     | 2.53             |        |
| EPA 350.1 Rev. 2.0           | Ammonia-N                          | 98.0           |      | 98.4          | 100  |       |     |                  | 1.67   |
| EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen                  | 103            |      | 103           | 98.2 |       |     |                  | 3.36   |
| EPA 353.2 Rev. 2.0           | NO <sub>2</sub> NO <sub>3</sub> -N | 104            |      | 105           | 106  |       |     |                  | 1.42   |
|                              | NO <sub>2</sub> NO <sub>3</sub> -N | 105            |      | 105           | 106  |       |     |                  | 0.877  |
| EPA 365.1 Rev. 2.0           | Total-P                            | 97.0           |      | 96.4          | 101  |       |     |                  | 3.05   |
| EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P                      | 98.8           |      | 97.4          | 98.3 |       |     |                  | 0.920  |
|                              | O-Phosphate-P                      | 100            |      |               |      |       |     |                  | 0.841  |
| EPA 8270D                    | Acetochlor                         | 92.2           | 91.2 | 86.8          | 81.9 | 1.10  |     |                  | 5.86   |
|                              | Alachlor                           | 93.2           | 91.2 | 77.6          | 71.3 | 2.20  |     |                  | 8.41   |
|                              | Aldrin                             | 62.8           | 61.6 | 72.4          | 72.4 | 1.79  |     |                  | 0.0877 |
|                              | Alpha-BHC                          | 84.5           | 80.9 | 92.6          | 94.6 | 4.36  |     |                  | 2.03   |
|                              | Alpha-Chlordane                    | 90.4           | 85.3 | 89.6          | 91.9 | 5.88  |     |                  | 2.56   |
|                              | Ametryn                            | 71.0           | 71.7 | 88.5          | 83.4 | 1.04  |     |                  | 5.96   |
|                              | Atrazine                           | 101            | 94.4 |               |      | 6.99  |     |                  | 13.6   |
|                              | Atrazine Desethyl                  | 102            | 109  | 91.2          | 84.7 | 6.67  |     |                  | 4.65   |
|                              | Azinphos Methyl                    | 118            | 126  | 110           | 107  | 6.71  |     |                  | 2.56   |
|                              | Beta-BHC                           | 120            | 109  | 109           | 102  | 9.58  |     |                  | 6.65   |
|                              | Bromacil                           | 60.1           | 68.0 | 80.3          | 77.2 | 12.3  |     |                  | 2.54   |
|                              | Butylate                           | 47.1           | 32.2 | 34.1          | 27.0 | 37.5  |     |                  | 23.2   |
|                              | Carbophenothion                    | 94.6           | 96.5 | 117           | 125  | 1.99  |     |                  | 6.29   |
|                              | Chlorothalonil                     | 97.7           | 89.5 | 141           | 141  | 8.73  |     |                  | 0.0124 |
|                              | Chlorpyrifos Ethyl                 | 92.9           | 89.1 | 81.0          | 73.7 | 4.19  |     |                  | 9.36   |
|                              | Chlorpyrifos Methyl                | 94.3           | 93.6 | 88.5          | 87.6 | 0.721 |     |                  | 1.07   |
|                              | Cyanazine                          | 239            | 249  | 203           | 190  | 3.91  |     |                  | 6.73   |
|                              | Cypermethrin                       | 87.7           | 87.1 | 103           | 99.7 | 0.640 |     |                  | 3.21   |
|                              | DDD-p,p'                           | 104            | 100  | 102           | 97.6 | 3.88  |     |                  | 4.55   |
|                              | DDE-p,p'                           | 85.5           | 82.5 | 92.9          | 85.3 | 3.55  |     |                  | 8.54   |
|                              | DDT-p,p'                           | 88.2           | 90.1 | 98.0          | 93.0 | 2.13  |     |                  | 5.22   |
|                              | Delta-BHC                          | 128            | 122  | 114           | 121  | 4.54  |     |                  | 5.77   |



## Quality Assurance Report Summary

| Ref. Method | Analyte             | LCS % Recovery |      | MS % Recovery |      | LCS   | Precision |
|-------------|---------------------|----------------|------|---------------|------|-------|-----------|
|             |                     |                |      |               |      |       | SMP MS    |
| EPA 8270D   | Demeton             | 63.3           | 71.6 | 47.9          | 47.8 | 12.3  | 0.157     |
|             | Diazinon            | 98.7           | 97.4 | 97.5          | 90.1 | 1.37  | 7.92      |
|             | Dicofol             | 97.1           | 91.9 | 102           | 82.6 | 5.48  | 20.6      |
|             | Dieldrin            | 94.4           | 88.5 | 90.5          | 93.9 | 6.47  | 3.71      |
|             | Disulfoton          | 92.1           | 87.9 | 84.0          | 77.6 | 4.63  | 7.91      |
|             | Endosulfan I        | 99.8           | 93.9 | 116           | 103  | 6.09  | 12.3      |
|             | Endosulfan II       | 113            | 108  | 107           | 118  | 3.94  | 9.56      |
|             | Endosulfan Sulfate  | 107            | 107  | 111           | 116  | 0.386 | 3.95      |
|             | Endrin              | 94.2           | 81.1 | 93.4          | 83.2 | 14.9  | 11.6      |
|             | Endrin Aldehyde     | 97.1           | 95.8 | 87.0          | 84.1 | 1.41  | 3.37      |
|             | Endrin Ketone       | 99.6           | 101  | 106           | 112  | 1.34  | 4.75      |
|             | EPTC                | 30.5           | 48.2 | 34.2          | 27.9 | 45.0  | 20.1      |
|             | Ethion              | 88.4           | 89.3 | 92.1          | 86.8 | 1.06  | 5.97      |
|             | Ethoprop            | 79.6           | 86.3 | 90.9          | 89.5 | 8.15  | 1.51      |
|             | Fenamiphos          | 93.8           | 93.0 | 85.6          | 81.4 | 0.859 | 5.00      |
|             | Fipronil            | 94.5           | 91.1 | 90.3          | 88.4 | 3.62  | 1.11      |
|             | Fipronil Sulfide    | 87.8           | 89.3 | 84.2          | 81.3 | 1.65  | 2.40      |
|             | Fipronil Sulfone    | 82.0           | 83.5 |               |      | 1.81  | 6.41      |
|             | Fonofos             | 84.0           | 88.3 | 85.7          | 82.4 | 4.98  | 3.92      |
|             | Gamma-BHC           | 99.1           | 91.6 | 107           | 97.4 | 7.87  | 9.07      |
|             | Gamma-Chlordane     | 86.5           | 83.6 | 88.5          | 91.7 | 3.34  | 3.56      |
|             | Heptachlor          | 65.6           | 66.4 | 76.3          | 74.6 | 1.15  | 2.28      |
|             | Heptachlor Epoxide  | 93.1           | 87.3 | 89.9          | 92.1 | 6.42  | 2.37      |
|             | Hexazinone          | 103            | 96.7 | 105           | 103  | 6.75  | 2.50      |
|             | Malathion           | 101            | 98.9 | 97.8          | 98.5 | 1.70  | 0.716     |
|             | Metalaxyl           | 91.4           | 86.3 | 84.0          | 78.3 | 5.75  | 6.92      |
|             | Methoxychlor        | 106            | 102  | 114           | 109  | 3.80  | 4.17      |
|             | Metolachlor         | 96.9           | 90.6 | 83.4          | 76.2 | 6.69  | 8.38      |
|             | Metribuzin          | 149            | 156  | 191           | 182  | 4.62  | 4.71      |
|             | Mevinphos           | 67.2           | 75.4 | 74.8          | 72.4 | 11.5  | 3.28      |
|             | Mirex               | 68.1           | 68.9 | 86.9          | 86.5 | 1.17  | 0.516     |
|             | Molinate            | 39.1           | 53.9 | 44.5          | 37.2 | 31.7  | 18.0      |
|             | Norflurazon         | 95.1           | 89.5 | 81.0          | 83.3 | 6.11  | 2.83      |
|             | Parathion Ethyl     | 94.0           | 97.0 | 94.8          | 89.7 | 3.14  | 5.48      |
|             | Parathion Methyl    | 99.9           | 104  | 102           | 102  | 3.62  | 0.188     |
|             | Pendimethalin       | 102            | 103  | 112           | 103  | 1.06  | 8.53      |
|             | Permethrin          | 80.0           | 79.1 | 96.6          | 96.2 | 1.13  | 0.439     |
|             | Phorate             | 78.5           | 81.0 | 71.5          | 71.9 | 3.23  | 0.481     |
|             | Prometon            | 85.4           | 83.9 | 90.3          | 85.5 | 1.80  | 5.44      |
|             | Prometryn           | 81.8           | 82.8 | 83.7          | 74.8 | 1.20  | 11.3      |
|             | Simazine            | 94.8           | 97.8 |               |      | 3.09  | 8.20      |
|             | Terbufos            | 84.0           | 87.5 | 87.5          | 84.4 | 3.99  | 3.54      |
|             | Terbutylazine       | 96.2           | 92.3 | 89.7          | 86.4 | 4.17  | 3.72      |
|             | Trifluralin         | 77.8           | 75.7 | 83.7          | 83.9 | 2.67  | 0.260     |
| EPA 8276    | Chlordane           | 71.3           | 63.0 | 72.3          | 68.3 | 12.4  | 5.66      |
|             | Toxaphene           | 98.2           | 94.6 | 97.9          | 94.0 | 3.75  | 3.99      |
| EPA 8321B   | 2,4-D               | 74.3           |      | 66.8          | 74.0 |       | 8.80      |
|             | 3-Hydroxycarbofuran | 84.5           |      | 114           | 109  |       | 3.83      |
|             | Acetaminophen       | 102            |      | 127           | 122  |       | 3.77      |
|             | Aldicarb            | 74.7           |      | 98.1          | 87.7 |       | 11.2      |
|             | Aldicarb Sulfone    | 106            |      | 127           | 125  |       | 1.17      |
|             | Aldicarb Sulfoxide  | 117            |      | 92.4          | 85.5 |       | 7.68      |
|             | AMPA                | 97.7           |      | 95.4          | 99.6 |       | 4.36      |
|             | Bentazon            | 75.1           |      | 21.7          | 21.5 |       | 0.967     |

## Quality Assurance Report Summary

| Ref. Method    | Analyte          | LCS % Recovery | MS % Recovery |      | Precision |        |
|----------------|------------------|----------------|---------------|------|-----------|--------|
|                |                  |                |               |      | LCS       | MS     |
| EPA 8321B      | Carbamazepine    | 63.9           | 76.4          | 71.8 |           | 6.26   |
|                | Carbaryl         | 59.6           | 56.4          | 52.6 |           | 6.95   |
|                | Carbofuran       | 56.4           | 56.3          | 53.5 |           | 5.14   |
|                | Diuron           | 62.3           | 69.4          | 72.3 |           | 4.12   |
|                | Fenuron          | 112            | 96.0          | 86.2 |           | 10.7   |
|                | Fluridone        | 56.9           | 58.0          | 59.2 |           | 2.03   |
|                | Glyphosate       | 101            | 102           | 88.8 |           | 13.4   |
|                | Imazapyr         | 73.3           | 46.7          | 57.6 |           | 15.2   |
|                | Imidacloprid     | 95.8           | 192           | 196  |           | 1.96   |
|                | Linuron          | 76.5           | 80.5          | 85.5 |           | 6.00   |
|                | MCPP             | 83.1           | 57.3          | 61.0 |           | 6.23   |
|                | Methiocarb       | 51.9           | 68.4          | 68.6 |           | 0.304  |
|                | Methomyl         | 99.2           | 85.2          | 82.3 |           | 3.41   |
|                | Oxamyl           | 103            | 103           | 94.6 |           | 8.18   |
|                | Primidone        | 107            | 115           | 111  |           | 3.27   |
|                | Propoxur         | 53.7           | 48.4          | 45.1 |           | 6.95   |
|                | Pyraclostrobin   | 67.4           | 70.9          | 70.0 |           | 1.21   |
|                | Sucralose        | 102            | 94.0          | 104  |           | 9.21   |
|                | Triclopyr        | 68.9           | 54.1          | 53.6 |           | 0.781  |
| SM 2120 B      | Color (true)     |                |               |      |           | 1.64   |
|                | Color (true)     |                |               |      |           | 2.33   |
|                | Color (true)     |                |               |      |           | 1.72   |
| SM 2320 B-97   | Total Alkalinity | 99.5           |               |      |           | 0.0630 |
| SM 2540 C-97   | TDS              |                |               |      |           | 1.05   |
| SM 4500 F-C-97 | Fluoride         | 97.9           | 95.2          | 94.7 |           | 0.467  |
| SM 5310 B-00   | Organic Carbon   | 98.9           | 102           | 103  |           | 0.655  |

## Reference Method Descriptions

| Method / DoH Cert #                   | Description                                                                                                               | Associated Samples                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| EPA 180.1 Rev. 2.0 / E31780           | Turbidity in aqueous matrices                                                                                             | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| EPA 200.7 Rev. 4.4 / E31780           | Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects | 1977013, 1977014                                     |
| EPA 200.8 Rev. 5.4 / E31780           | Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    | 1977013, 1977014                                     |
| EPA 300.0 Rev. 2.1 / E31780           | Chloride in aqueous matrices                                                                                              | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| EPA 300.0 Rev. 2.1 / E31780           | Sulfate in aqueous matrices                                                                                               | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| EPA 350.1 Rev. 2.0 / E31780           | Ammonia in aqueous matrices as mg N/L                                                                                     | 1976975, 1976976, 1976977, 1976978, 1976979, 1976980 |
| EPA 351.2 Rev. 2.0 / E31780           | Total Kjeldahl Nitrogen in aqueous matrices                                                                               | 1976975, 1976976, 1976977, 1976978, 1976979, 1976980 |
| EPA 353.2 Rev. 2.0 / E31780           | Nitrite/Nitrate in aqueous matrices as mg N/L                                                                             | 1976975, 1976976, 1976977, 1976978, 1976979, 1976980 |
| EPA 365.1 Rev. 2.0 / E31780           | Total Phosphorus in aqueous matrices as mg P/L                                                                            | 1976975, 1976976, 1976977, 1976978, 1976979, 1976980 |
| EPA 365.1 Rev. 2.0 dissolved / E31780 | Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                                                       | 1976981, 1976982, 1976983, 1976984, 1976985, 1976986 |
| EPA 8270D / E31780                    | Organochlorine pesticides in water matrices by GC/MS-SIM                                                                  | 1977011                                              |
| EPA 8270D / E31780                    | Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS                                | 1977012                                              |
| EPA 8276 / E31780                     | Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization                                    | 1977011                                              |

## Reference Method Descriptions

| Method / DoH Cert #     | Description                                                                         | Associated Samples                                   |
|-------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------|
| EPA 8321B / E31780      | Carbamates in water matrices by HPLC/MS/MS                                          | 1977009                                              |
| EPA 8321B / E31780      | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS         | 1977005, 1977006, 1977007, 1977008, 1977010          |
| EPA 8321B / E31780      | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS         | 1977010                                              |
| EPA 8321B / E31780      | Water soluble organic compounds by HPLC/MS/MS                                       | 1977005, 1977006, 1977007, 1977008, 1977010          |
| SM 2120 B / E31780      | True Color measured at 450 nm                                                       | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| SM 2320 B-97 / E31780   | Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                           | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| SM 2540 C-97 / E31780   | Total Dissolved Solids in aqueous matrices                                          | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| SM 2540 D-97 / E31780   | Total Suspended Solids in aqueous matrices                                          | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| SM 4500 F-C-97 / E31780 | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| SM 5310 B-00 / E31780   | Nonpurgeable Organic Carbon in aqueous matrices                                     | 1976975, 1976976, 1976977, 1976978, 1976979, 1976980 |

## Preparation and Analysis Log

| Ref. Method                  | Received Date | Prep Date/Time   | Prepared By      | Analysis Date/Time | Analyzed By        | Associated Samples                                   |
|------------------------------|---------------|------------------|------------------|--------------------|--------------------|------------------------------------------------------|
| EPA 180.1 Rev. 2.0           | 03/22/2018    |                  |                  | 03/22/2018 16:28   | DeAsia Armster     | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| EPA 200.7 Rev. 4.4           | 03/22/2018    | 03/26/2018 12:20 | Elliott D. Healy | 03/27/2018 16:51   | Betina Topolski    | 1977013                                              |
|                              | 03/22/2018    | 03/26/2018 12:20 | Elliott D. Healy | 03/27/2018 16:57   | Betina Topolski    | 1977014                                              |
| EPA 200.8 Rev. 5.4           | 03/22/2018    | 03/26/2018 12:20 | Elliott D. Healy | 03/27/2018 19:34   | Nadine Brooks      | 1977014                                              |
|                              | 03/22/2018    | 05/02/2018 17:25 | Elliott D. Healy | 05/03/2018 17:35   | Robert K Palmer    | 1977013                                              |
| EPA 300.0 Rev. 2.1           | 03/22/2018    |                  |                  | 03/26/2018 23:07   | Lipi Saha          | 1976969                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 00:18   | Lipi Saha          | 1976970                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 01:06   | Lipi Saha          | 1976971                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 01:18   | Lipi Saha          | 1976972                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 01:30   | Lipi Saha          | 1976973                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 01:42   | Lipi Saha          | 1976974                                              |
| EPA 350.1 Rev. 2.0           | 03/22/2018    |                  |                  | 03/27/2018 14:25   | Ping Hua           | 1976975                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 14:30   | Ping Hua           | 1976976                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 14:31   | Ping Hua           | 1976977                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 14:40   | Ping Hua           | 1976978                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 14:42   | Ping Hua           | 1976979                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 14:43   | Ping Hua           | 1976980                                              |
| EPA 351.2 Rev. 2.0           | 03/22/2018    | 03/26/2018 11:30 | Adrian Shelby    | 03/27/2018 14:28   | Joseph Suarez      | 1976975                                              |
|                              | 03/22/2018    | 03/26/2018 11:30 | Adrian Shelby    | 03/27/2018 14:29   | Joseph Suarez      | 1976976                                              |
|                              | 03/22/2018    | 03/26/2018 11:30 | Adrian Shelby    | 03/27/2018 14:31   | Joseph Suarez      | 1976977                                              |
|                              | 03/22/2018    | 03/26/2018 11:30 | Adrian Shelby    | 03/27/2018 14:32   | Joseph Suarez      | 1976978                                              |
|                              | 03/22/2018    | 03/26/2018 11:30 | Adrian Shelby    | 03/27/2018 14:34   | Joseph Suarez      | 1976979                                              |
|                              | 03/22/2018    | 03/26/2018 11:30 | Adrian Shelby    | 03/27/2018 14:39   | Joseph Suarez      | 1976980                                              |
| EPA 353.2 Rev. 2.0           | 03/22/2018    |                  |                  | 03/27/2018 11:37   | Lauren Bottorf     | 1976975                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 11:45   | Lauren Bottorf     | 1976977                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 11:46   | Lauren Bottorf     | 1976978                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 11:48   | Lauren Bottorf     | 1976979                                              |
|                              | 03/22/2018    |                  |                  | 03/27/2018 11:49   | Lauren Bottorf     | 1976980                                              |
|                              | 03/22/2018    |                  |                  | 03/28/2018 12:50   | Lauren Bottorf     | 1976976                                              |
| EPA 365.1 Rev. 2.0           | 03/22/2018    | 03/26/2018 11:40 | Sima Feizi       | 03/27/2018 08:48   | Beverly Y. Sanders | 1976979                                              |
|                              | 03/22/2018    | 03/26/2018 11:40 | Sima Feizi       | 03/27/2018 08:58   | Beverly Y. Sanders | 1976976                                              |
|                              | 03/22/2018    | 03/26/2018 11:40 | Sima Feizi       | 03/27/2018 08:59   | Beverly Y. Sanders | 1976977                                              |
|                              | 03/22/2018    | 03/26/2018 11:40 | Sima Feizi       | 03/27/2018 09:00   | Beverly Y. Sanders | 1976978                                              |
|                              | 03/22/2018    | 03/26/2018 11:40 | Sima Feizi       | 03/27/2018 09:01   | Beverly Y. Sanders | 1976980                                              |
|                              | 03/22/2018    | 03/26/2018 11:40 | Sima Feizi       | 03/29/2018 11:40   | Beverly Y. Sanders | 1976975                                              |
| EPA 365.1 Rev. 2.0 dissolved | 03/22/2018    |                  |                  | 03/22/2018 15:55   | Megan Treadwell    | 1976981                                              |
|                              | 03/22/2018    |                  |                  | 03/22/2018 15:56   | Megan Treadwell    | 1976982                                              |
|                              | 03/22/2018    |                  |                  | 03/22/2018 15:57   | Megan Treadwell    | 1976983                                              |
|                              | 03/22/2018    |                  |                  | 03/22/2018 16:11   | Megan Treadwell    | 1976984                                              |

## Preparation and Analysis Log

| Ref. Method                  | Received Date | Prep Date/Time   | Prepared By          | Analysis Date/Time | Analyzed By          | Associated Samples                                   |
|------------------------------|---------------|------------------|----------------------|--------------------|----------------------|------------------------------------------------------|
| EPA 365.1 Rev. 2.0 dissolved | 03/22/2018    |                  |                      | 03/22/2018 16:23   | Megan Treadwell      | 1976985, 1976986                                     |
| EPA 8270D                    | 03/22/2018    | 03/27/2018 09:00 | Rasheda Ghaffari     | 03/29/2018 18:42   | Vandana T. Nagar     | 1977011                                              |
|                              | 03/22/2018    | 03/28/2018 10:12 | John Kaba            | 04/03/2018 18:54   | Vandana T. Nagar     | 1977012                                              |
|                              | 03/22/2018    | 03/28/2018 10:12 | John Kaba            | 04/09/2018 19:07   | Vandana T. Nagar     | 1977012                                              |
| EPA 8276                     | 03/22/2018    | 03/27/2018 09:00 | Rasheda Ghaffari     | 03/29/2018 18:01   | John P. Burgos       | 1977011                                              |
| EPA 8321B                    | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/24/2018 11:01   | Julie Michelle Frank | 1977005                                              |
|                              | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/24/2018 11:35   | Julie Michelle Frank | 1977006                                              |
|                              | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/24/2018 12:10   | Julie Michelle Frank | 1977007                                              |
|                              | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/24/2018 12:45   | Julie Michelle Frank | 1977008                                              |
|                              | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/24/2018 13:54   | Julie Michelle Frank | 1977010                                              |
|                              | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/24/2018 23:07   | Julie Michelle Frank | 1977005                                              |
|                              | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/24/2018 23:42   | Julie Michelle Frank | 1977006                                              |
|                              | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/25/2018 00:16   | Julie Michelle Frank | 1977007                                              |
|                              | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/25/2018 00:51   | Julie Michelle Frank | 1977008                                              |
|                              | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/25/2018 01:26   | Julie Michelle Frank | 1977009                                              |
|                              | 03/22/2018    | 03/23/2018 11:00 | Hoor Shaik           | 03/25/2018 02:35   | Julie Michelle Frank | 1977010                                              |
|                              | 03/22/2018    | 03/26/2018 09:00 | Julie Michelle Frank | 03/26/2018 13:08   | Julie Michelle Frank | 1977010                                              |
|                              | 03/22/2018    | 03/26/2018 14:00 | Julie Michelle Frank | 03/27/2018 08:00   | Juyoung Kim          | 1977005                                              |
|                              | 03/22/2018    | 03/26/2018 14:00 | Julie Michelle Frank | 03/27/2018 08:16   | Juyoung Kim          | 1977006                                              |
|                              | 03/22/2018    | 03/26/2018 14:00 | Julie Michelle Frank | 03/27/2018 08:31   | Juyoung Kim          | 1977007                                              |
|                              | 03/22/2018    | 03/26/2018 14:00 | Julie Michelle Frank | 03/27/2018 09:03   | Juyoung Kim          | 1977008                                              |
|                              | 03/22/2018    | 03/26/2018 14:00 | Julie Michelle Frank | 03/27/2018 09:19   | Juyoung Kim          | 1977010                                              |
| SM 2120 B                    | 03/22/2018    |                  |                      | 03/22/2018 16:57   | Tanya Welborn        | 1976969                                              |
|                              | 03/22/2018    |                  |                      | 03/22/2018 17:22   | Tanya Welborn        | 1976970                                              |
|                              | 03/22/2018    |                  |                      | 03/22/2018 17:25   | Tanya Welborn        | 1976973, 1976974                                     |
|                              | 03/22/2018    |                  |                      | 03/22/2018 17:40   | Tanya Welborn        | 1976972                                              |
|                              | 03/22/2018    |                  |                      | 03/22/2018 17:43   | Tanya Welborn        | 1976971                                              |
| SM 2320 B-97                 | 03/22/2018    |                  |                      | 03/29/2018 19:17   | Dale L. Simmons      | 1976973                                              |
|                              | 03/22/2018    |                  |                      | 03/29/2018 20:30   | Dale L. Simmons      | 1976969                                              |
|                              | 03/22/2018    |                  |                      | 03/29/2018 20:40   | Dale L. Simmons      | 1976970                                              |
|                              | 03/22/2018    |                  |                      | 03/29/2018 20:50   | Dale L. Simmons      | 1976971                                              |
|                              | 03/22/2018    |                  |                      | 03/29/2018 21:00   | Dale L. Simmons      | 1976972                                              |
|                              | 03/22/2018    |                  |                      | 03/29/2018 21:35   | Dale L. Simmons      | 1976974                                              |
| SM 2540 C-97                 | 03/22/2018    |                  |                      | 03/23/2018 15:30   | DeAsia Armster       | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| SM 2540 D-97                 | 03/22/2018    |                  |                      | 03/23/2018 15:30   | DeAsia Armster       | 1976969, 1976970, 1976971, 1976972, 1976973, 1976974 |
| SM 4500 F-C-97               | 03/22/2018    |                  |                      | 03/31/2018 08:25   | Lauren Bottorf       | 1976973                                              |
|                              | 03/22/2018    |                  |                      | 03/31/2018 09:24   | Lauren Bottorf       | 1976969                                              |
|                              | 03/22/2018    |                  |                      | 03/31/2018 09:27   | Lauren Bottorf       | 1976970                                              |

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## Preparation and Analysis Log

| Ref. Method    | Received Date | Prep Date/Time | Prepared By | Analysis Date/Time | Analyzed By     | Associated Samples |
|----------------|---------------|----------------|-------------|--------------------|-----------------|--------------------|
| SM 4500 F-C-97 | 03/22/2018    |                |             | 03/31/2018 09:31   | Lauren Bottorf  | 1976971            |
|                | 03/22/2018    |                |             | 03/31/2018 09:34   | Lauren Bottorf  | 1976972            |
|                | 03/22/2018    |                |             | 03/31/2018 09:38   | Lauren Bottorf  | 1976974            |
| SM 5310 B-00   | 03/22/2018    |                |             | 04/03/2018 21:49   | Megan Treadwell | 1976975            |
|                | 03/22/2018    |                |             | 04/03/2018 22:35   | Megan Treadwell | 1976976            |
|                | 03/22/2018    |                |             | 04/03/2018 22:50   | Megan Treadwell | 1976977            |
|                | 03/22/2018    |                |             | 04/03/2018 23:04   | Megan Treadwell | 1976978            |
|                | 03/22/2018    |                |             | 04/03/2018 23:18   | Megan Treadwell | 1976979            |
|                | 03/22/2018    |                |             | 04/03/2018 23:33   | Megan Treadwell | 1976980            |