

# Chemical Analysis Report

**NE-DIST-2019-10-15-02**

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

Event Description: **LSJR West**  
Request ID: **RQ-2019-10-14-14**  
Customer: **NE-DIST**  
Project ID: **SMP**

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 08-NOV-2019 14:46

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

## 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 by the Florida Department of Health Environmental Laboratory Certification Program 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: Yellow Water Cr at SR 228

Collection Date/Time: 10/14/2019 12:45

Field ID: 20030549

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                  | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|--------|------|------------|----------|----------|
| 2128009   | EPA 180.1 Rev. 2.0           | Turbidity         | 3.7    | A    | NTU        | P372506  |          |
|           | EPA 300.0 Rev. 2.1           | Chloride          | 13     |      | mg Cl/L    | P373245  |          |
|           |                              | Sulfate           | 5.2    |      | mg SO4/L   | P373560  |          |
|           | SM 2120 B                    | Color (true)      | 86     |      | PCU        | P372527  |          |
|           | SM 2320 B-97                 | Total Alkalinity  | 32     |      | mg CaCO3/L | P372877  |          |
|           | SM 2540 C-97                 | TDS               | 93     |      | mg/L       | P373302  |          |
|           | SM 2540 D-97                 | TSS               | 2      | U    | mg/L       | P373256  |          |
|           | SM 4500 F-C-97               | Fluoride          | 0.049  | I    | mg F/L     | P372881  |          |
| 2128011   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.014  |      | mg N/L     | P372883  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.32   |      | mg N/L     | P372619  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.024  |      | mg N/L     | P372734  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.027  |      | mg P/L     | P372741  |          |
|           | SM 5310 B-00                 | Organic Carbon    | 9.0    |      | mg C/L     | P372782  |          |
| 2128013   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.015  |      | mg P/L     | P372517  |          |
| 2128046   | EPA 200.7 Rev. 4.4           | Barium            | 24.9   |      | ug/L       | P372597  |          |
|           |                              | Calcium           | 12.9   |      | mg/L       | P372597  |          |
|           |                              | Iron              | 890    |      | ug/L       | P372597  |          |
|           |                              | Magnesium         | 2.67   |      | mg/L       | P372597  |          |
|           |                              | Potassium         | 1.1    | I    | mg/L       | P372597  |          |
|           |                              | Sodium            | 8.1    |      | mg/L       | P372597  |          |
|           |                              | Zinc              | 5.0    | U    | ug/L       | P372597  |          |
|           |                              | Aluminum          | 120    |      | ug/L       | P372597  |          |
|           |                              | Antimony          | 0.050  | U    | ug/L       | P372597  |          |
|           |                              | Arsenic           | 0.37   |      | ug/L       | P372597  |          |
|           | EPA 200.8 Rev. 5.4           | Boron**           | 17.5   |      | ug/L       | P372597  |          |
|           |                              | Cadmium           | 0.020  | U    | ug/L       | P372597  |          |
|           |                              | Chromium          | 0.42   | I    | ug/L       | P372597  |          |
|           |                              | Copper            | 0.88   |      | ug/L       | P372597  |          |
|           |                              | Lead              | 0.45   |      | ug/L       | P372597  |          |
|           |                              | Nickel            | 0.50   | U    | ug/L       | P373262  |          |
|           |                              | Selenium          | 0.20   | U    | ug/L       | P372597  |          |
|           |                              | Silver            | 0.010  | U    | ug/L       | P372597  |          |
|           |                              | Thallium          | 0.10   | U    | ug/L       | P372597  |          |

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: Williamson Cr 300m Below Jammes Rd

Collection Date/Time: 10/14/2019 13:45

Field ID: G2NE1165

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                  | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|--------|------|------------|----------|----------|
| 2128010   | EPA 180.1 Rev. 2.0           | Turbidity         | 1.9    |      | NTU        | P372506  |          |
|           | EPA 300.0 Rev. 2.1           | Chloride          | 16     |      | mg Cl/L    | P373245  |          |
|           |                              | Sulfate           | 18     |      | mg SO4/L   | P373560  |          |
|           |                              | Color (true)      | 31     |      | PCU        | P372527  |          |
|           | SM 2320 B-97                 | Total Alkalinity  | 76     |      | mg CaCO3/L | P372877  |          |
|           | SM 2540 C-97                 | TDS               | 131    |      | mg/L       | P373302  |          |
|           | SM 2540 D-97                 | TSS               | 2      | U    | mg/L       | P373256  |          |
|           | SM 4500 F-C-97               | Fluoride          | 0.077  | I    | mg F/L     | P372881  |          |
| 2128012   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.041  |      | mg N/L     | P372883  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.33   |      | mg N/L     | P372619  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.17   |      | mg N/L     | P372734  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.051  |      | mg P/L     | P372741  |          |
|           | SM 5310 B-00                 | Organic Carbon    | 5.9    |      | mg C/L     | P372782  |          |
| 2128014   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.030  |      | mg P/L     | P372517  |          |
| 2128047   | EPA 200.7 Rev. 4.4           | Barium            | 33.8   |      | ug/L       | P372597  |          |
|           |                              | Calcium           | 33.4   |      | mg/L       | P372597  |          |
|           |                              | Iron              | 600    |      | ug/L       | P372597  |          |
|           |                              | Magnesium         | 3.79   |      | mg/L       | P372597  |          |
|           |                              | Potassium         | 1.9    |      | mg/L       | P372597  |          |
|           |                              | Sodium            | 11.2   |      | mg/L       | P372597  |          |
|           |                              | Zinc              | 5.4    | I    | ug/L       | P372597  |          |
|           | EPA 200.8 Rev. 5.4           | Aluminum          | 29     |      | ug/L       | P372597  |          |
|           |                              | Antimony          | 0.15   | I    | ug/L       | P372597  |          |
|           |                              | Arsenic           | 0.79   |      | ug/L       | P372597  |          |
|           |                              | Boron**           | 32.0   |      | ug/L       | P372597  |          |
|           |                              | Cadmium           | 0.020  | U    | ug/L       | P372597  |          |
|           |                              | Chromium          | 0.40   | U    | ug/L       | P372597  |          |
|           |                              | Copper            | 0.88   |      | ug/L       | P372597  |          |
|           |                              | Lead              | 0.21   | I    | ug/L       | P372597  |          |
|           |                              | Nickel            | 0.50   | U    | ug/L       | P373262  |          |
|           |                              | Selenium          | 0.20   | U    | ug/L       | P372597  |          |
|           |                              | Silver            | 0.010  | U    | ug/L       | P372597  |          |
|           |                              | Thallium          | 0.10   | U    | ug/L       | P372597  |          |

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: Wills Br at Watergate Rd

Collection Date/Time: 10/14/2019 13:20

Field ID: G2NE1183

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                  | Component          | Result | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|--------------------|--------|------|------------|----------|----------|
| 2128006   | EPA 180.1 Rev. 2.0           | Turbidity          | 2.9    |      | NTU        | P372506  |          |
|           | EPA 300.0 Rev. 2.1           | Chloride           | 30     | A    | mg Cl/L    | P373245  |          |
|           |                              | Sulfate            | 23     | A    | mg SO4/L   | P373560  |          |
|           | SM 2120 B                    | Color (true)       | 48     |      | PCU        | P372527  |          |
|           | SM 2320 B-97                 | Total Alkalinity   | 85     |      | mg CaCO3/L | P372877  |          |
|           | SM 2540 C-97                 | TDS                | 188    | A    | mg/L       | P373302  |          |
|           | SM 2540 D-97                 | TSS                | 3      | IA   | mg/L       | P373256  |          |
|           | SM 4500 F-C-97               | Fluoride           | 0.10   |      | mg F/L     | P372881  |          |
| 2128007   | EPA 350.1 Rev. 2.0           | Ammonia-N          | 0.55   |      | mg N/L     | P372883  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen  | 1.1    |      | mg N/L     | P372619  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N           | 0.47   |      | mg N/L     | P373064  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P            | 0.16   |      | mg P/L     | P372741  |          |
|           | SM 5310 B-00                 | Organic Carbon     | 8.9    |      | mg C/L     | P372782  |          |
| 2128008   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P      | 0.10   |      | mg P/L     | P372517  |          |
| 2128032   | EPA 8321B                    | 2,4-D              | 0.016  |      | ug/L       | P372475  |          |
|           |                              | Acesulfame K**     | 0.18   | I    | ug/L       | P372361  |          |
|           |                              | AMPA**             | 0.37   | I    | ug/L       | P372361  |          |
|           |                              | Acetaminophen**    | 0.0080 | U    | ug/L       | P372475  |          |
|           |                              | Acetamiprid**      | 0.0099 |      | ug/L       | P372475  |          |
|           |                              | Endothall**        | 0.25   | U    | ug/L       | P372361  |          |
|           |                              | Glufosinate**      | 0.10   | U    | ug/L       | P372361  |          |
|           |                              | Glyphosate**       | 1.1    |      | ug/L       | P372361  |          |
|           |                              | Afidopyropen**     | 0.0020 | UJ   | ug/L       | P372475  |          |
|           |                              | Bentazon           | 0.018  |      | ug/L       | P372475  |          |
|           |                              | Sucralose**        | 3.1    |      | ug/L       | P372361  | MS       |
|           |                              | Benzovindiflupyr** | 0.0020 | UJ   | ug/L       | P372475  |          |
|           |                              | Carbamazepine**    | 0.0057 |      | ug/L       | P372475  |          |
|           |                              | Clothianidin**     | 0.0020 | U    | ug/L       | P372475  |          |
|           |                              | Dinotefuran**      | 0.0033 | I    | ug/L       | P372475  |          |
|           |                              | Diuron             | 0.053  |      | ug/L       | P372475  |          |
|           |                              | Fenuron            | 0.016  | U    | ug/L       | P372475  |          |
|           |                              | Fluridone**        | 0.029  |      | ug/L       | P372475  |          |
|           |                              | Imazapyr**         | 0.31   |      | ug/L       | P372475  |          |
|           |                              | Hydrocodone**      | 0.0020 | U    | ug/L       | P372475  |          |
|           |                              | Ibuprofen**        | 0.020  | U    | ug/L       | P372475  |          |
|           |                              | Imidacloprid       | 0.014  |      | ug/L       | P372475  | MS       |
|           |                              | Linuron            | 0.0040 | U    | ug/L       | P372475  |          |
|           |                              | Mandestrobin**     | 0.0020 | UJ   | ug/L       | P372475  |          |
|           |                              | MCP                | 0.0020 | U    | ug/L       | P372475  |          |
|           |                              | Naproxen**         | 0.0080 | U    | ug/L       | P372475  |          |
|           |                              | Primidone**        | 0.027  |      | ug/L       | P372475  |          |
|           |                              | Pyraclostrobin**   | 0.0020 | U    | ug/L       | P372475  |          |
|           |                              | Thiamethoxam**     | 0.0020 | U    | ug/L       | P372475  | MS       |

**Field ID: G2NE1183**

**Matrix: W-SURF-FRH**

| Sample ID | Ref. Method        | Component     | Result | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|---------------|--------|------|-------|----------|----------|
| 2128032   | EPA 8321B          | Tolfenpyrad** | 0.0020 | U    | ug/L  | P372475  |          |
|           |                    | Triclopyr**   | 0.0040 | U    | ug/L  | P372475  |          |
| 2128045   | EPA 200.7 Rev. 4.4 | Barium        | 31.9   |      | ug/L  | P372597  |          |
|           |                    | Calcium       | 36.6   |      | mg/L  | P372597  |          |
|           |                    | Iron          | 470    |      | ug/L  | P372597  |          |
|           |                    | Magnesium     | 5.71   |      | mg/L  | P372597  |          |
|           |                    | Potassium     | 3.1    |      | mg/L  | P372597  |          |
|           |                    | Sodium        | 20.2   |      | mg/L  | P372597  |          |
|           |                    | Zinc          | 5.0    | U    | ug/L  | P372597  |          |
|           | EPA 200.8 Rev. 5.4 | Aluminum      | 69     |      | ug/L  | P372597  |          |
|           |                    | Antimony      | 0.42   |      | ug/L  | P372597  |          |
|           |                    | Arsenic       | 1.16   |      | ug/L  | P372597  |          |
|           |                    | Boron**       | 50.6   |      | ug/L  | P372597  |          |
|           |                    | Cadmium       | 0.020  | U    | ug/L  | P372597  |          |
|           |                    | Chromium      | 0.40   | U    | ug/L  | P372597  |          |
|           |                    | Copper        | 1.13   |      | ug/L  | P372597  |          |
|           |                    | Lead          | 0.43   |      | ug/L  | P372597  |          |
|           |                    | Nickel        | 0.50   | U    | ug/L  | P373262  |          |
|           |                    | Selenium      | 0.20   | U    | ug/L  | P372597  |          |
|           |                    | Silver        | 0.010  | U    | ug/L  | P372597  |          |
|           |                    | Thallium      | 0.10   | U    | ug/L  | P372597  |          |

**Ref. Method and Comment:**

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

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon and imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Hogan Cr @ Washington St

Collection Date/Time: 10/14/2019 14:15

Field ID: 20030773

Matrix: W-SURF-SLT

| Sample ID | Ref. Method                  | Component           | Result   | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|---------------------|----------|------|------------|----------|----------|
| 2128003   | EPA 180.1 Rev. 2.0           | Turbidity           | 3.9      |      | NTU        | P372505  |          |
|           | EPA 300.0 Rev. 2.1           | Chloride            | 2.0E+03  |      | mg Cl/L    | P373245  |          |
|           |                              | Sulfate             | 330      |      | mg SO4/L   | P373560  |          |
|           | SM 2120 B                    | Color (true)        | 27       |      | PCU        | P372527  |          |
|           | SM 2320 B-97                 | Total Alkalinity    | 135      |      | mg CaCO3/L | P372877  |          |
|           | SM 2540 C-97                 | TDS                 | 3.76E+03 |      | mg/L       | P373302  |          |
|           | SM 2540 D-97                 | TSS                 | 4        | I    | mg/L       | P373256  |          |
|           | SM 4500 F-C-97               | Fluoride            | 0.40     |      | mg F/L     | P372881  |          |
| 2128004   | EPA 350.1 Rev. 2.0           | Ammonia-N           | 0.099    |      | mg N/L     | P372884  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen   | 0.51     |      | mg N/L     | P372652  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N            | 0.12     |      | mg N/L     | P372917  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P             | 0.091    |      | mg P/L     | P372744  |          |
|           | SM 5310 B-00                 | Organic Carbon      | 6.9      |      | mg C/L     | P372782  |          |
| 2128005   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P       | 0.048    |      | mg P/L     | P372515  |          |
| 2128030   | EPA 8321B                    | Aldicarb            | 0.020    | U    | ug/L       | P372335  |          |
|           |                              | Aldicarb Sulfone    | 0.0020   | U    | ug/L       | P372335  |          |
|           |                              | Aldicarb Sulfoxide  | 0.0020   | U    | ug/L       | P372335  | MS       |
|           |                              | Carbaryl            | 0.0020   | U    | ug/L       | P372335  |          |
|           |                              | Carbofuran          | 0.0020   | U    | ug/L       | P372335  |          |
|           |                              | 3-Hydroxycarbofuran | 0.0020   | U    | ug/L       | P372335  |          |
|           |                              | Methiocarb          | 0.0020   | U    | ug/L       | P372335  |          |
|           |                              | Methomyl            | 0.0020   | U    | ug/L       | P372335  |          |
|           |                              | Oxamyl              | 0.0020   | U    | ug/L       | P372335  |          |
|           |                              | Propoxur            | 0.0020   | U    | ug/L       | P372335  |          |
| 2128031   |                              | 2,4-D               | 0.0048   | I    | ug/L       | P372475  |          |
|           |                              | Acesulfame K**      | 0.10     | U    | ug/L       | P372361  |          |
|           |                              | AMPA**              | 1.0      | U    | ug/L       | P372361  |          |
|           |                              | Acetaminophen**     | 0.049    |      | ug/L       | P372475  |          |
|           |                              | Acetamiprid**       | 0.0020   | U    | ug/L       | P372475  |          |
|           |                              | Endothall**         | 0.25     | U    | ug/L       | P372361  |          |
|           |                              | Glufosinate**       | 1.0      | U    | ug/L       | P372361  |          |
|           |                              | Glyphosate**        | 1.0      | U    | ug/L       | P372361  |          |
|           |                              | Afidopyropen**      | 0.0020   | UJ   | ug/L       | P372475  |          |
|           |                              | Bentazon            | 0.022    |      | ug/L       | P372475  |          |
|           |                              | Sucralose**         | 0.26     |      | ug/L       | P372361  | MS       |
|           |                              | Benzovindiflupyr**  | 0.0020   | UJ   | ug/L       | P372475  |          |
|           |                              | Carbamazepine**     | 9.3E-04  | I    | ug/L       | P372475  |          |
|           |                              | Clothianidin**      | 0.0020   | U    | ug/L       | P372475  |          |
|           |                              | Dinotefuran**       | 0.0020   | U    | ug/L       | P372475  |          |
|           |                              | Diuron              | 0.020    |      | ug/L       | P372475  |          |
|           |                              | Fenuron             | 0.016    | U    | ug/L       | P372475  |          |
|           |                              | Fluridone**         | 0.0035   |      | ug/L       | P372475  |          |
|           |                              | Imazapyr**          | 0.099    |      | ug/L       | P372475  |          |

Field ID: 20030773

Matrix: W-SURF-SLT

| Sample ID | Ref. Method | Component          | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|--------------------|--------|------|-------|----------|----------|
| 2128031   | EPA 8321B   | Hydrocodone**      | 0.0020 | U    | ug/L  | P372475  |          |
|           |             | Ibuprofen**        | 0.020  | U    | ug/L  | P372475  |          |
|           |             | Imidacloprid       | 0.025  |      | ug/L  | P372475  | MS       |
|           |             | Linuron            | 0.0040 | U    | ug/L  | P372475  |          |
|           |             | Mandestrobin**     | 0.0020 | UJ   | ug/L  | P372475  |          |
|           |             | MCP                | 0.0020 | U    | ug/L  | P372475  |          |
|           |             | Naproxen**         | 0.015  | I    | ug/L  | P372475  |          |
|           |             | Primidone**        | 0.0040 | U    | ug/L  | P372475  |          |
|           |             | Pyraclostrobin**   | 0.0020 | U    | ug/L  | P372475  |          |
|           |             | Thiamethoxam**     | 0.0020 | U    | ug/L  | P372475  | MS       |
|           |             | Tolfenpyrad**      | 0.0020 | U    | ug/L  | P372475  |          |
|           |             | Triclopyr**        | 0.0040 | U    | ug/L  | P372475  |          |
| 2128042   | EPA 8270E   | Aldrin             | 4.1    | U    | ng/L  | P372719  |          |
|           |             | Alpha-BHC          | 2.1    | U    | ng/L  | P372719  |          |
|           |             | Alpha-Chlordane    | 1.0    | U    | ng/L  | P372719  |          |
|           |             | Beta-BHC           | 10     | U    | ng/L  | P372719  |          |
|           |             | Bifenthrin**       | 4.1    | U    | ng/L  | P372719  |          |
|           |             | Delta-BHC          | 8.3    | U    | ng/L  | P372719  |          |
|           |             | Gamma-BHC          | 8.3    | U    | ng/L  | P372719  |          |
|           |             | Carbophenothion    | 10     | U    | ng/L  | P372719  |          |
|           |             | Chlorothalonil     | 2.1    | U    | ng/L  | P372719  |          |
|           |             | Cis-Nonachlor**    | 1.0    | U    | ng/L  | P372719  |          |
|           |             | Cypermethrin       | 21     | U    | ng/L  | P372719  |          |
|           |             | DDD-p,p'           | 6.2    | U    | ng/L  | P372719  |          |
|           |             | DDE-p,p'           | 6.2    | U    | ng/L  | P372719  |          |
|           |             | DDT-p,p'           | 7.2    | U    | ng/L  | P372719  |          |
|           |             | Dicofol            | 31     | U    | ng/L  | P372719  |          |
|           |             | Dieldrin           | 4.1    | U    | ng/L  | P372719  |          |
|           |             | Endosulfan I       | 4.1    | U    | ng/L  | P372719  |          |
|           |             | Endosulfan II      | 4.1    | U    | ng/L  | P372719  |          |
|           |             | Endosulfan Sulfate | 2.1    | U    | ng/L  | P372719  |          |
|           |             | Endrin             | 2.1    | U    | ng/L  | P372719  |          |
|           |             | Endrin Aldehyde    | 2.1    | U    | ng/L  | P372719  |          |
|           |             | Endrin Ketone      | 2.1    | U    | ng/L  | P372719  |          |
|           |             | Ethalfuralin**     | 3.1    | U    | ng/L  | P372719  |          |
|           |             | Gamma-Chlordane    | 1.0    | U    | ng/L  | P372719  |          |
|           |             | Heptachlor         | 1.5    | U    | ng/L  | P372719  |          |
|           |             | Heptachlor Epoxide | 2.1    | U    | ng/L  | P372719  |          |
|           |             | Hexachlorobenzene  | 2.1    | U    | ng/L  | P372719  |          |
|           |             | Methoxychlor       | 4.1    | U    | ng/L  | P372719  |          |
|           |             | Mirex              | 2.1    | U    | ng/L  | P372719  |          |
|           |             | Permethrin         | 10     | U    | ng/L  | P372719  |          |
|           |             | Trans-Nonachlor**  | 1.0    | U    | ng/L  | P372719  |          |
|           |             | Trifluralin        | 2.6    | U    | ng/L  | P372719  |          |
|           | EPA 8276    | Chlordane          | 5.2    | U    | ng/L  | P372719  | RPD      |

Field ID: 20030773

Matrix: W-SURF-SLT

| Sample ID | Ref. Method | Component             | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|-----------------------|--------|------|-------|----------|----------|
| 2128042   | EPA 8276    | Toxaphene             | 31     | U    | ng/L  | P372719  |          |
| 2128043   | EPA 8270E   | Acetochlor            | 0.25   | U    | ng/L  | P372696  |          |
|           |             | Alachlor              | 0.25   | U    | ng/L  | P372696  |          |
|           |             | Ametryn               | 0.61   | U    | ng/L  | P372696  |          |
|           |             | Atrazine              | 6.9    |      | ng/L  | P372696  |          |
|           |             | Atrazine Desethyl     | 1.5    | U    | ng/L  | P372696  |          |
|           |             | Azinphos Methyl       | 5.1    | U    | ng/L  | P372696  |          |
|           |             | Bromacil              | 8.3    |      | ng/L  | P372696  |          |
|           |             | Butylate              | 0.40   | U    | ng/L  | P372696  |          |
|           |             | Chlorpyrifos Ethyl    | 0.25   | U    | ng/L  | P372696  |          |
|           |             | Chlorpyrifos Methyl   | 0.10   | U    | ng/L  | P372696  |          |
|           |             | Cyanazine             | 3.3    | U    | ng/L  | P372696  |          |
|           |             | Demeton               | 7.1    | UJ   | ng/L  | P372696  | LCS, MS  |
|           |             | Diazinon              | 0.13   | U    | ng/L  | P372696  |          |
|           |             | Dimethenamid**        | 0.10   | U    | ng/L  | P372696  |          |
|           |             | Disulfoton            | 0.51   | U    | ng/L  | P372696  |          |
|           |             | Dithiopyr**           | 0.10   | U    | ng/L  | P372696  |          |
|           |             | EPTC                  | 1.3    | U    | ng/L  | P372696  |          |
|           |             | Ethion                | 0.15   | U    | ng/L  | P372696  |          |
|           |             | Ethoprop              | 0.10   | U    | ng/L  | P372696  |          |
|           |             | Fenamiphos            | 0.51   | U    | ng/L  | P372696  |          |
|           |             | Fipronil              | 0.94   | I    | ng/L  | P372696  |          |
|           |             | Fipronil Desulfinyl** | 0.33   | I    | ng/L  | P372696  |          |
|           |             | Fipronil Sulfide      | 1.5    | J    | ng/L  | P372696  | CCV      |
|           |             | Fipronil Sulfone      | 3.7    |      | ng/L  | P372696  |          |
|           |             | Fonofos               | 0.20   | U    | ng/L  | P372696  |          |
|           |             | Hexazinone            | 3.0    |      | ng/L  | P372696  |          |
|           |             | Malathion             | 0.35   | U    | ng/L  | P372696  |          |
|           |             | Metalaxyl             | 0.30   | U    | ng/L  | P372696  |          |
|           |             | Metolachlor           | 3.0    |      | ng/L  | P372696  |          |
|           |             | Metribuzin            | 1.6    | IJ   | ng/L  | P372696  | CCV      |
|           |             | Mevinphos             | 0.51   | U    | ng/L  | P372696  |          |
|           |             | Molinate              | 0.30   | U    | ng/L  | P372696  |          |
|           |             | Norflurazon           | 0.51   | U    | ng/L  | P372696  |          |
|           |             | Oxadiazon**           | 0.58   |      | ng/L  | P372696  |          |
|           |             | Parathion Ethyl       | 0.25   | U    | ng/L  | P372696  | MS       |
|           |             | Parathion Methyl      | 0.56   | U    | ng/L  | P372696  |          |
|           |             | Pendimethalin         | 1.1    | I    | ng/L  | P372696  |          |
|           |             | Phorate               | 0.25   | U    | ng/L  | P372696  |          |
|           |             | Prodiamine**          | 0.19   | I    | ng/L  | P372696  |          |
|           |             | Prometon              | 0.91   | U    | ng/L  | P372696  |          |
|           |             | Prometryn             | 0.20   | U    | ng/L  | P372696  |          |
|           |             | Simazine              | 4.2    |      | ng/L  | P372696  |          |
|           |             | Tebuconazole**        | 1.5    | I    | ng/L  | P372696  |          |
|           |             | Terbufos              | 0.10   | U    | ng/L  | P372696  |          |

Field ID: 20030773

Matrix: W-SURF-SLT

| Sample ID | Ref. Method        | Component     | Result   | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|---------------|----------|------|-------|----------|----------|
| 2128043   | EPA 8270E          | Terbutylazine | 0.43     | U    | ng/L  | P372696  |          |
| 2128044   | EPA 200.7 Rev. 4.4 | Barium        | 44.9     |      | ug/L  | P372597  |          |
|           |                    | Calcium       | 95.2     |      | mg/L  | P372597  |          |
|           |                    | Iron          | 370      |      | ug/L  | P372597  |          |
|           |                    | Magnesium     | 143      |      | mg/L  | P372597  |          |
|           |                    | Potassium     | 42       |      | mg/L  | P372597  |          |
|           |                    | Sodium        | 1.10E+03 |      | mg/L  | P372597  |          |
|           |                    | Zinc          | 5.0      | U    | ug/L  | P372597  |          |
|           | EPA 200.8 Rev. 5.4 | Aluminum      | 47       |      | ug/L  | P372597  |          |
|           |                    | Antimony      | 0.34     |      | ug/L  | P372597  |          |
|           |                    | Arsenic       | 1.19     |      | ug/L  | P372597  |          |
|           |                    | Boron**       | 488      |      | ug/L  | P372597  |          |
|           |                    | Cadmium       | 0.020    | U    | ug/L  | P372597  |          |
|           |                    | Chromium      | 0.40     | U    | ug/L  | P372597  |          |
|           |                    | Copper        | 1.70     |      | ug/L  | P372597  |          |
|           |                    | Lead          | 1.54     |      | ug/L  | P372597  |          |
|           |                    | Nickel        | 0.50     | U    | ug/L  | P373262  |          |
|           |                    | Selenium      | 0.20     | U    | ug/L  | P372597  |          |
|           |                    | Silver        | 0.010    | U    | ug/L  | P372597  |          |
|           |                    | Thallium      | 0.10     | U    | ug/L  | P372597  |          |

Ref. Method and Comment:

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

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon and imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: MDL elevated for some parameters due to matrix interference.

EPA 8270E: MS accuracy for bromacil, metolachlor, fipronil sulfone, atrazine, metalaxyl, and metribuzin not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

## Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P372505

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

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P372506

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

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P372597

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Barium    | 1.0    | U    | ug/L  |
| Calcium   | 0.075  | U    | mg/L  |
| 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: P372597

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Aluminum  | 5.0    | U    | ug/L  |
| Antimony  | 0.050  | U    | ug/L  |
| Arsenic   | 0.050  | U    | ug/L  |
| Boron     | 2.0    | U    | ug/L  |
| Cadmium   | 0.020  | U    | ug/L  |
| Chromium  | 0.40   | U    | ug/L  |
| Copper    | 0.40   | U    | ug/L  |
| Lead      | 0.20   | U    | ug/L  |
| Selenium  | 0.20   | U    | ug/L  |
| Silver    | 0.010  | U    | ug/L  |
| Thallium  | 0.10   | U    | ug/L  |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P373262

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Nickel    | 0.50   | U    | ug/L  |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P373245

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

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P373560

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

## Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P373560

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

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P372883

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

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P372884

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

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P372619

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

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P372652

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P372734

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P372917

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P373064

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

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P372741

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

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0  
 Batch ID: P372744

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
 Batch ID: P372515

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
 Batch ID: P372517

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

Reference Method: EPA 8270E  
 Batch ID: P372696

| Component           | Result | Code | Units |
|---------------------|--------|------|-------|
| Acetochlor          | 0.25   | U    | ng/L  |
| Alachlor            | 0.25   | U    | ng/L  |
| Ametryn             | 0.60   | U    | ng/L  |
| Atrazine            | 0.25   | U    | ng/L  |
| Atrazine Desethyl   | 1.5    | U    | ng/L  |
| Azinphos Methyl     | 5.0    | 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           | 3.2    | U    | ng/L  |
| Demeton             | 7.0    | U    | ng/L  |
| Diazinon            | 0.12   | U    | ng/L  |
| Dimethenamid        | 0.10   | U    | ng/L  |
| Disulfoton          | 0.50   | U    | ng/L  |
| Dithiopyr           | 0.10   | U    | ng/L  |
| EPTC                | 1.2    | U    | ng/L  |
| Ethion              | 0.15   | U    | ng/L  |
| Ethoprop            | 0.10   | U    | ng/L  |
| Fenamiphos          | 0.50   | U    | ng/L  |
| Fipronil            | 0.25   | U    | ng/L  |
| Fipronil Desulfinyl | 0.12   | 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           | 0.30   | U    | ng/L  |
| Metolachlor         | 0.50   | U    | ng/L  |
| Metribuzin          | 0.75   | U    | ng/L  |
| Mevinphos           | 0.50   | U    | ng/L  |
| Molinate            | 0.30   | U    | ng/L  |
| Norflurazon         | 0.50   | U    | ng/L  |
| Oxadiazon           | 0.10   | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270E  
Batch ID: P372696

| Component        | Result | Code | Units |
|------------------|--------|------|-------|
| Parathion Ethyl  | 0.25   | U    | ng/L  |
| Parathion Methyl | 0.55   | U    | ng/L  |
| Pendimethalin    | 1.0    | U    | ng/L  |
| Phorate          | 0.25   | U    | ng/L  |
| Prodiamine       | 0.18   | U    | ng/L  |
| Prometon         | 0.90   | U    | ng/L  |
| Prometryn        | 0.20   | U    | ng/L  |
| Simazine         | 0.50   | U    | ng/L  |
| Tebuconazole     | 0.50   | U    | ng/L  |
| Terbufos         | 0.10   | U    | ng/L  |
| Terbutylazine    | 0.42   | U    | ng/L  |

Reference Method: EPA 8270E  
Batch ID: P372719

| 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           | 10     | U    | ng/L  |
| Bifenthrin         | 4.0    | U    | ng/L  |
| Carbophenothion    | 10     | U    | ng/L  |
| Chlorothalonil     | 2.0    | U    | ng/L  |
| Cis-Nonachlor      | 1.0    | U    | ng/L  |
| Cypermethrin       | 20     | U    | ng/L  |
| DDD-p,p'           | 6.0    | U    | ng/L  |
| DDE-p,p'           | 6.0    | U    | ng/L  |
| DDT-p,p'           | 7.0    | U    | ng/L  |
| Delta-BHC          | 8.0    | U    | ng/L  |
| Dicofol            | 30     | U    | ng/L  |
| 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  |
| Ethalfuralin       | 3.0    | U    | ng/L  |
| Gamma-BHC          | 8.0    | U    | ng/L  |
| Gamma-Chlordane    | 1.0    | U    | ng/L  |
| Heptachlor         | 1.5    | U    | ng/L  |
| Heptachlor Epoxide | 2.0    | U    | ng/L  |
| Hexachlorobenzene  | 2.0    | U    | ng/L  |
| Methoxychlor       | 4.0    | U    | ng/L  |
| Mirex              | 2.0    | U    | ng/L  |
| Permethrin         | 10     | U    | ng/L  |
| Trans-Nonachlor    | 1.0    | U    | ng/L  |
| Trifluralin        | 2.5    | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8276

Batch ID: P372719

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Chlordane | 5.0    | U    | ng/L  |
| Toxaphene | 30     | U    | ng/L  |

Reference Method: EPA 8321B

Batch ID: P372335

| Component           | Result | Code | Units |
|---------------------|--------|------|-------|
| 3-Hydroxycarbofuran | 0.0020 | U    | ug/L  |
| Aldicarb            | 0.020  | U    | ug/L  |
| Aldicarb Sulfone    | 0.0020 | U    | ug/L  |
| Aldicarb Sulfoxide  | 0.0020 | U    | ug/L  |
| Carbaryl            | 0.0020 | U    | ug/L  |
| Carbofuran          | 0.0020 | U    | ug/L  |
| Methiocarb          | 0.0020 | U    | ug/L  |
| Methomyl            | 0.0020 | U    | ug/L  |
| Oxamyl              | 0.0020 | U    | ug/L  |
| Propoxur            | 0.0020 | U    | ug/L  |

Reference Method: EPA 8321B

Batch ID: P372361

| Component    | Result | Code | Units |
|--------------|--------|------|-------|
| Acesulfame K | 0.10   | U    | ug/L  |
| AMPA         | 0.10   | U    | ug/L  |
| Endothall    | 0.25   | U    | ug/L  |
| Glufosinate  | 0.10   | U    | ug/L  |
| Glyphosate   | 0.10   | U    | ug/L  |
| Sucralose    | 0.010  | U    | ug/L  |

Reference Method: EPA 8321B

Batch ID: P372475

| Component        | Result  | Code | Units |
|------------------|---------|------|-------|
| 2,4-D            | 0.0020  | U    | ug/L  |
| Acetaminophen    | 0.0080  | U    | ug/L  |
| Acetamiprid      | 0.0020  | U    | ug/L  |
| Afidopyropen     | 0.0020  | U    | ug/L  |
| Bentazon         | 8.0E-04 | U    | ug/L  |
| Benzovindiflupyr | 0.0020  | U    | ug/L  |
| Carbamazepine    | 8.0E-04 | U    | ug/L  |
| Clothianidin     | 0.0020  | U    | ug/L  |
| Dinotefuran      | 0.0020  | U    | ug/L  |
| Diuron           | 0.0020  | U    | ug/L  |
| Fenuron          | 0.016   | U    | ug/L  |
| Fluridone        | 8.0E-04 | U    | ug/L  |
| Hydrocodone      | 0.0020  | U    | ug/L  |
| Ibuprofen        | 0.020   | U    | ug/L  |
| Imazapyr         | 0.0040  | U    | ug/L  |
| Imidacloprid     | 0.0020  | U    | ug/L  |
| Linuron          | 0.0040  | U    | ug/L  |
| Mandestrobin     | 0.0020  | U    | ug/L  |
| MCPP             | 0.0020  | U    | ug/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8321B  
Batch ID: P372475

| Component      | Result | Code | Units |
|----------------|--------|------|-------|
| Naproxen       | 0.0080 | U    | ug/L  |
| Primidone      | 0.0040 | U    | ug/L  |
| Pyraclostrobin | 0.0020 | U    | ug/L  |
| Thiamethoxam   | 0.0020 | U    | ug/L  |
| Tolfenpyrad    | 0.0020 | U    | ug/L  |
| Triclopyr      | 0.0040 | U    | ug/L  |

Reference Method: SM 2120 B  
Batch ID: P372527

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

Reference Method: SM 2320 B-97  
Batch ID: P372877

| Component        | Result | Code | Units      |
|------------------|--------|------|------------|
| Total Alkalinity | 0.65   | U    | mg CaCO3/L |

Reference Method: SM 2540 C-97  
Batch ID: P373302

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

Reference Method: SM 2540 D-97  
Batch ID: P373256

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

Reference Method: SM 4500 F-C-97  
Batch ID: P372881

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

Reference Method: SM 5310 B-00  
Batch ID: P372782

| 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: P372597

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Barium    | 100     |         | P         | 85 - 115       |
| Calcium   | 103     |         | P         | 85 - 115       |
| Iron      | 102     |         | P         | 85 - 115       |
| Magnesium | 114     |         | P         | 85 - 115       |
| Potassium | 102     |         | P         | 85 - 115       |
| Sodium    | 108     |         | P         | 85 - 115       |
| Zinc      | 98.5    |         | P         | 85 - 115       |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P372597

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Aluminum  | 98.3    |         | P         | 85 - 115       |
| Antimony  | 103     |         | P         | 85 - 115       |
| Arsenic   | 103     |         | P         | 85 - 115       |
| Boron     | 97.1    |         | P         | 85 - 115       |
| Cadmium   | 97.9    |         | P         | 85 - 115       |
| Chromium  | 98.2    |         | P         | 85 - 115       |
| Copper    | 91.6    |         | P         | 85 - 115       |
| Lead      | 99.8    |         | P         | 85 - 115       |
| Selenium  | 97.1    |         | P         | 85 - 115       |
| Silver    | 100     |         | P         | 85 - 115       |
| Thallium  | 103     |         | P         | 85 - 115       |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P373262

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Nickel    | 91.3    |         | P         | 85 - 115       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P373245

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

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P373560

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Sulfate   | 98.2    |         | P         | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P372883

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Ammonia-N | 99.0    |         | P         | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P372884

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
|-----------|---------|---------|-----------|----------------|

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P372884

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Ammonia-N | 99.9    |         | P         | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P372619

| Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 94.2    |         | P         | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P372652

| Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 96.2    |         | P         | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P372734

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P372917

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P373064

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| NO2NO3-N  | 98.5    |         | P         | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P372741

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Total-P   | 95.0    |         | P         | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P372744

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Total-P   | 96.2    |         | P         | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P372515

| Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------|---------|-----------|----------------|
| O-Phosphate-P | 99.2    |         | P         | 90 - 110       |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
 Batch ID: P372517

| Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------|---------|-----------|----------------|
| O-Phosphate-P | 99.6    |         | P         | 90 - 110       |

Reference Method: EPA 8270E  
 Batch ID: P372696

| Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| Acetochlor          | 103     | 93.9    | P/P       | 69 - 122       |
| Alachlor            | 104     | 99.1    | P/P       | 71 - 120       |
| Ametryn             | 82.1    | 80.9    | P/P       | 47 - 138       |
| Atrazine            | 93.0    | 95.1    | P/P       | 74 - 124       |
| Atrazine Desethyl   | 87.0    | 78.1    | P/P       | 38 - 138       |
| Azinphos Methyl     | 109     | 89.1    | P/P       | 69 - 154       |
| Bromacil            | 87.8    | 80.2    | P/P       | 39 - 121       |
| Butylate            | 69.6    | 62.9    | P/P       | 27 - 87.0      |
| Chlorpyrifos Ethyl  | 106     | 97.5    | P/P       | 69 - 118       |
| Chlorpyrifos Methyl | 97.1    | 90.4    | P/P       | 70 - 120       |
| Cyanazine           | 139     | 123     | P/P       | 20 - 250       |
| Demeton             | 174     | 159     | F/F       | 39 - 118       |
| Diazinon            | 97.6    | 84.9    | P/P       | 68 - 127       |
| Dimethenamid        | 89.4    | 83.0    | P/P       | 66 - 125       |
| Disulfoton          | 94.3    | 85.2    | P/P       | 52 - 126       |
| Dithiopyr           | 93.0    | 87.2    | P/P       | 67 - 127       |
| EPTC                | 63.4    | 59.7    | P/P       | 24 - 88.0      |
| Ethion              | 56.5    | 53.4    | P/P       | 51 - 132       |
| Ethoprop            | 94.5    | 87.1    | P/P       | 58 - 117       |
| Fenamiphos          | 86.5    | 87.9    | P/P       | 38 - 139       |
| Fipronil            | 91.5    | 84.7    | P/P       | 61 - 124       |
| Fipronil Desulfinyl | 68.1    | 60.4    | P/P       | 47 - 120       |
| Fipronil Sulfide    | 105     | 85.0    | P/P       | 56 - 119       |
| Fipronil Sulfone    | 90.1    | 82.8    | P/P       | 50 - 117       |
| Fonofos             | 95.7    | 90.0    | P/P       | 60 - 121       |
| Hexazinone          | 111     | 102     | P/P       | 55 - 137       |
| Malathion           | 92.6    | 87.1    | P/P       | 66 - 126       |
| Metalaxyl           | 105     | 96.8    | P/P       | 33 - 140       |
| Metolachlor         | 107     | 94.4    | P/P       | 69 - 119       |
| Metribuzin          | 177     | 149     | P/P       | 31 - 238       |
| Mevinphos           | 96.5    | 90.7    | P/P       | 42 - 113       |
| Molinate            | 70.8    | 65.9    | P/P       | 32 - 96.0      |
| Norflurazon         | 107     | 103     | P/P       | 54 - 123       |
| Oxadiazon           | 84.1    | 76.2    | P/P       | 63 - 128       |
| Parathion Ethyl     | 106     | 89.3    | P/P       | 72 - 111       |
| Parathion Methyl    | 110     | 90.7    | P/P       | 74 - 126       |
| Pendimethalin       | 98.3    | 86.1    | P/P       | 61 - 131       |
| Phorate             | 67.4    | 82.7    | P/P       | 51 - 115       |
| Prodiamine          | 61.4    | 55.5    | P/P       | 38 - 144       |
| Prometon            | 92.3    | 80.5    | P/P       | 54 - 119       |
| Prometryn           | 93.8    | 83.5    | P/P       | 63 - 120       |
| Simazine            | 104     | 96.7    | P/P       | 75 - 126       |
| Tebuconazole        | 52.3    | 52.8    | P/P       | 20 - 119       |
| Terbufos            | 102     | 96.3    | P/P       | 64 - 116       |
| Terbutylazine       | 88.4    | 80.1    | P/P       | 73 - 117       |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E  
Batch ID: P372719

| Component          | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------------|---------|---------|-----------|----------------|
| Aldrin             | 65.6    | 60.7    | P/P       | 20 - 93.0      |
| Alpha-BHC          | 101     | 105     | P/P       | 55 - 133       |
| Alpha-Chlordane    | 93.0    | 93.7    | P/P       | 58 - 112       |
| Beta-BHC           | 105     | 109     | P/P       | 54 - 168       |
| Bifenthrin         | 115     | 123     | P/P       | 30 - 134       |
| Carbophenothion    | 107     | 102     | P/P       | 26 - 147       |
| Chlorothalonil     | 97.2    | 84.7    | P/P       | 20 - 155       |
| Cis-Nonachlor      | 97.3    | 97.7    | P/P       | 54 - 115       |
| Cypermethrin       | 104     | 110     | P/P       | 40 - 137       |
| DDD-p,p'           | 101     | 99.1    | P/P       | 65 - 129       |
| DDE-p,p'           | 92.2    | 93.7    | P/P       | 57 - 116       |
| DDT-p,p'           | 91.7    | 95.9    | P/P       | 53 - 133       |
| Delta-BHC          | 111     | 108     | P/P       | 59 - 178       |
| Dicofol            | 104     | 114     | P/P       | 24 - 138       |
| Dieldrin           | 98.1    | 98.7    | P/P       | 60 - 120       |
| Endosulfan I       | 99.5    | 99.7    | P/P       | 64 - 118       |
| Endosulfan II      | 110     | 112     | P/P       | 58 - 142       |
| Endosulfan Sulfate | 103     | 103     | P/P       | 60 - 127       |
| Endrin             | 103     | 106     | P/P       | 59 - 122       |
| Endrin Aldehyde    | 96.7    | 95.6    | P/P       | 49 - 132       |
| Endrin Ketone      | 105     | 104     | P/P       | 64 - 121       |
| Ethalfuralin       | 98.2    | 99.8    | P/P       | 60 - 126       |
| Gamma-BHC          | 111     | 112     | P/P       | 57 - 154       |
| Gamma-Chlordane    | 90.1    | 92.4    | P/P       | 56 - 110       |
| Heptachlor         | 90.5    | 91.3    | P/P       | 46 - 96.0      |
| Heptachlor Epoxide | 96.6    | 96.5    | P/P       | 61 - 112       |
| Hexachlorobenzene  | 88.7    | 93.5    | P/P       | 44 - 98.0      |
| Methoxychlor       | 108     | 111     | P/P       | 63 - 134       |
| Mirex              | 85.0    | 85.0    | P/P       | 45 - 100       |
| Permethrin         | 100     | 106     | P/P       | 53 - 115       |
| Trans-Nonachlor    | 92.7    | 94.6    | P/P       | 47 - 110       |
| Trifluralin        | 97.7    | 102     | P/P       | 39 - 142       |

Reference Method: EPA 8276  
Batch ID: P372719

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Chlordane | 91.1    | 94.1    | P/P       | 43 - 128       |
| Toxaphene | 67.5    | 61.4    | P/P       | 38 - 140       |

Reference Method: EPA 8321B  
Batch ID: P372335

| Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| 3-Hydroxycarbofuran | 92.9    |         | P         | 40 - 160       |
| Aldicarb            | 86.3    |         | P         | 30 - 160       |
| Aldicarb Sulfone    | 92.4    |         | P         | 40 - 160       |
| Aldicarb Sulfoxide  | 82.2    |         | P         | 40 - 160       |
| Carbaryl            | 71.9    |         | P         | 40 - 160       |
| Carbofuran          | 85.0    |         | P         | 40 - 160       |
| Methiocarb          | 82.8    |         | P         | 40 - 160       |
| Methomyl            | 79.3    |         | P         | 40 - 160       |

## Quality Assurance Report

### Laboratory Control Sample Accuracy

**Reference Method: EPA 8321B**  
**Batch ID: P372335**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Oxamyl    | 97.0    |         | P         | 40 - 160       |
| Propoxur  | 83.3    |         | P         | 40 - 160       |

**Reference Method: EPA 8321B**  
**Batch ID: P372361**

| Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Acesulfame K | 64.0    |         | P         | 40 - 150       |
| AMPA         | 116     |         | P         | 40 - 150       |
| Endothall    | 86.6    |         | P         | 40 - 150       |
| Glufosinate  | 88.6    |         | P         | 40 - 150       |
| Glyphosate   | 86.3    |         | P         | 40 - 140       |
| Sucralose    | 112     |         | P         | 40 - 150       |

**Reference Method: EPA 8321B**  
**Batch ID: P372475**

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| 2,4-D            | 147     |         | P         | 40 - 160       |
| Acetaminophen    | 94.0    |         | P         | 30 - 160       |
| Acetamiprid      | 98.8    |         | P         | 40 - 160       |
| Afidopyropen     | 101     |         | P         | 40 - 160       |
| Bentazon         | 127     |         | P         | 30 - 160       |
| Benzovindiflupyr | 99.4    |         | P         | 40 - 160       |
| Carbamazepine    | 114     |         | P         | 40 - 160       |
| Clothianidin     | 102     |         | P         | 40 - 160       |
| Dinotefuran      | 91.2    |         | P         | 40 - 160       |
| Diuron           | 107     |         | P         | 40 - 160       |
| Fenuron          | 106     |         | P         | 40 - 160       |
| Fluridone        | 103     |         | P         | 40 - 160       |
| Hydrocodone      | 99.1    |         | P         | 40 - 160       |
| Ibuprofen        | 92.7    |         | P         | 30 - 160       |
| Imazapyr         | 101     |         | P         | 40 - 160       |
| Imidacloprid     | 108     |         | P         | 40 - 160       |
| Linuron          | 89.0    |         | P         | 40 - 160       |
| Mandestrobin     | 111     |         | P         | 40 - 160       |
| MCPP             | 159     |         | P         | 40 - 160       |
| Naproxen         | 114     |         | P         | 40 - 160       |
| Primidone        | 102     |         | P         | 40 - 160       |
| Pyraclostrobin   | 95.2    |         | P         | 30 - 160       |
| Thiamethoxam     | 105     |         | P         | 40 - 160       |
| Tolfenpyrad      | 58.7    |         | P         | 40 - 160       |
| Triclopyr        | 139     |         | P         | 30 - 160       |

**Reference Method: SM 2120 B**  
**Batch ID: P372527**

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

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97  
Batch ID: P372877

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| Total Alkalinity | 105     |         | P         | 98 - 106       |

Reference Method: SM 4500 F-C-97  
Batch ID: P372881

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Fluoride  | 94.8    |         | P         | 92 - 103       |

Reference Method: SM 5310 B-00  
Batch ID: P372782

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Organic Carbon | 99.1    |         | P         | 85 - 115       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P372597

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2127981       | Barium    | 99.0    | 99.6    | P/P       | 80 - 120       |
| 2127981       | Calcium   | 102     |         | P         | 80 - 120       |
| 2127981       | Iron      | 99.8    |         | P         | 80 - 120       |
| 2127981       | Magnesium | 111     | 109     | P/P       | 80 - 120       |
| 2127981       | Potassium | 113     | 112     | P/P       | 80 - 120       |
| 2127981       | Sodium    | 109     | 107     | P/P       | 80 - 120       |
| 2127981       | Zinc      | 98.3    | 98.6    | P/P       | 80 - 120       |
| 2127995       | Barium    | 101     |         | P         | 80 - 120       |
| 2127995       | Calcium   | 107     |         | P         | 80 - 120       |
| 2127995       | Iron      | 106     |         | P         | 80 - 120       |
| 2127995       | Magnesium | 111     |         | P         | 80 - 120       |
| 2127995       | Potassium | 102     |         | P         | 80 - 120       |
| 2127995       | Sodium    | 102     |         | P         | 80 - 120       |
| 2127995       | Zinc      | 100     |         | P         | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P372597

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2127981       | Aluminum  | 97.0    | 95.9    | P/P       | 80 - 120       |
| 2127981       | Antimony  | 103     | 104     | P/P       | 80 - 120       |
| 2127981       | Arsenic   | 98.9    | 102     | P/P       | 80 - 120       |
| 2127981       | Boron     | 96.1    | 95.1    | P/P       | 80 - 120       |
| 2127981       | Cadmium   | 98.3    | 99.6    | P/P       | 80 - 120       |
| 2127981       | Chromium  | 98.9    | 94.6    | P/P       | 80 - 120       |
| 2127981       | Copper    | 97.4    | 92.8    | P/P       | 80 - 120       |
| 2127981       | Lead      | 101     | 101     | P/P       | 80 - 120       |
| 2127981       | Selenium  | 90.5    | 94.9    | P/P       | 80 - 120       |
| 2127981       | Silver    | 101     | 101     | P/P       | 80 - 120       |
| 2127981       | Thallium  | 105     | 104     | P/P       | 80 - 120       |
| 2127995       | Aluminum  | 97.5    |         | P         | 80 - 120       |
| 2127995       | Antimony  | 102     |         | P         | 80 - 120       |
| 2127995       | Arsenic   | 100     |         | P         | 80 - 120       |
| 2127995       | Boron     | 98.3    |         | P         | 80 - 120       |
| 2127995       | Cadmium   | 99.3    |         | P         | 80 - 120       |
| 2127995       | Chromium  | 91.3    |         | P         | 80 - 120       |
| 2127995       | Copper    | 89.6    |         | P         | 80 - 120       |
| 2127995       | Lead      | 98.9    |         | P         | 80 - 120       |
| 2127995       | Selenium  | 94.6    |         | P         | 80 - 120       |
| 2127995       | Silver    | 101     |         | P         | 80 - 120       |
| 2127995       | Thallium  | 102     |         | P         | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P373262

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2127969       | Nickel    | 89.4    |         | P         | 80 - 120       |
| 2127982       | Nickel    | 87.8    | 88.6    | P/P       | 80 - 120       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P373245

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2128006       | Chloride  | 103     |         | P         | 90 - 110       |
| 2128482       | Chloride  | 105     |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P373560

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2128006       | Sulfate   | 97.6    |         | P         | 90 - 110       |
| 2128482       | Sulfate   | 98.7    |         | P         | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P372883

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2128067       | Ammonia-N | 97.8    | 100     | P/P       | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P372884

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2128267       | Ammonia-N | 104     | 106     | P/P       | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P372619

| Spiked Sample | Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 2128068       | Kjeldahl Nitrogen | 90.3    | 96.0    | P/P       | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P372652

| Spiked Sample | Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 2128071       | Kjeldahl Nitrogen | 94.2    | 93.7    | P/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P372734

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2128011       | NO2NO3-N  | 98.8    | 97.8    | P/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P372917

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2127847       | NO2NO3-N  | 100     | 100     | P/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P373064

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2129444       | NO2NO3-N  | 103     | 104     | P/P       | 90 - 110       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P372741

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2127988       | Total-P   | 100     | 97.5    | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P372744

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2128004       | Total-P   | 102     | 98.4    | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P372515

| Spiked Sample | Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------|---------|---------|-----------|----------------|
| 2127715       | O-Phosphate-P | 97.6    | 98.0    | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P372517

| Spiked Sample | Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------|---------|---------|-----------|----------------|
| 2127935       | O-Phosphate-P | 102     | 102     | P/P       | 90 - 110       |

Reference Method: EPA 8270E  
Batch ID: P372696

| Spiked Sample | Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------------|---------|---------|-----------|----------------|
| 2129047       | Acetochlor          | 97.1    | 97.0    | P/P       | 63 - 129       |
| 2129047       | Alachlor            | 104     | 102     | P/P       | 65 - 127       |
| 2129047       | Ametryn             | 83.2    | 86.7    | P/P       | 40 - 164       |
| 2129047       | Atrazine Desethyl   | 72.0    | 98.2    | P/P       | 14 - 157       |
| 2129047       | Azinphos Methyl     | 99.6    | 91.3    | P/P       | 49 - 180       |
| 2129047       | Butylate            | 58.3    | 49.9    | P/P       | 10 - 94.0      |
| 2129047       | Chlorpyrifos Ethyl  | 118     | 117     | P/P       | 58 - 123       |
| 2129047       | Chlorpyrifos Methyl | 98.5    | 98.0    | P/P       | 58 - 125       |
| 2129047       | Cyanazine           | 171     | 170     | P/P       | 24 - 253       |
| 2129047       | Demeton             | 188     | 180     | F/F       | 25 - 149       |
| 2129047       | Diazinon            | 96.0    | 99.0    | P/P       | 59 - 144       |
| 2129047       | Dimethenamid        | 95.2    | 89.9    | P/P       | 46 - 139       |
| 2129047       | Disulfoton          | 97.5    | 93.7    | P/P       | 54 - 132       |
| 2129047       | Dithiopyr           | 91.1    | 91.0    | P/P       | 64 - 130       |
| 2129047       | EPTC                | 53.0    | 47.9    | P/P       | 10 - 92.0      |
| 2129047       | Ethion              | 90.0    | 73.4    | P/P       | 30 - 148       |
| 2129047       | Ethoprop            | 102     | 96.8    | P/P       | 50 - 130       |
| 2129047       | Fenamiphos          | 85.9    | 89.4    | P/P       | 49 - 142       |
| 2129047       | Fipronil            | 101     | 98.7    | P/P       | 46 - 140       |
| 2129047       | Fipronil Desulfinyl | 70.0    | 68.4    | P/P       | 30 - 121       |
| 2129047       | Fipronil Sulfide    | 101     | 100     | P/P       | 31 - 136       |
| 2129047       | Fonofos             | 105     | 102     | P/P       | 55 - 129       |
| 2129047       | Hexazinone          | 121     | 121     | P/P       | 56 - 141       |
| 2129047       | Malathion           | 103     | 101     | P/P       | 56 - 135       |
| 2129047       | Mevinphos           | 104     | 93.1    | P/P       | 33 - 131       |
| 2129047       | Molinate            | 70.3    | 63.2    | P/P       | 14 - 98.0      |
| 2129047       | Norflurazon         | 111     | 99.6    | P/P       | 34 - 136       |
| 2129047       | Oxadiazon           | 88.7    | 88.0    | P/P       | 67 - 116       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E  
 Batch ID: P372696

| Spiked Sample | Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------------|---------|---------|-----------|----------------|
| 2129047       | Parathion Ethyl  | 131     | 128     | F/F       | 66 - 118       |
| 2129047       | Parathion Methyl | 121     | 124     | P/P       | 64 - 136       |
| 2129047       | Pendimethalin    | 123     | 129     | P/P       | 59 - 144       |
| 2129047       | Phorate          | 81.8    | 82.7    | P/P       | 42 - 130       |
| 2129047       | Prodiamine       | 62.2    | 61.6    | P/P       | 42 - 148       |
| 2129047       | Prometon         | 106     | 127     | P/P       | 59 - 134       |
| 2129047       | Prometryn        | 92.4    | 94.9    | P/P       | 54 - 135       |
| 2129047       | Simazine         | 129     | 133     | P/P       | 53 - 156       |
| 2129047       | Tebuconazole     | 76.6    | 61.8    | P/P       | 10 - 131       |
| 2129047       | Terbufos         | 104     | 109     | P/P       | 57 - 131       |
| 2129047       | Terbutylazine    | 91.5    | 89.9    | P/P       | 68 - 125       |

Reference Method: EPA 8270E  
 Batch ID: P372719

| Spiked Sample | Component          | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------------|---------|---------|-----------|----------------|
| 2128694       | Aldrin             | 67.8    | 54.8    | P/P       | 25 - 92.0      |
| 2128694       | Alpha-BHC          | 103     | 97.9    | P/P       | 48 - 150       |
| 2128694       | Alpha-Chlordane    | 90.9    | 78.6    | P/P       | 50 - 115       |
| 2128694       | Beta-BHC           | 117     | 99.5    | P/P       | 39 - 184       |
| 2128694       | Bifenthrin         | 114     | 101     | P/P       | 46 - 116       |
| 2128694       | Carbophenothion    | 113     | 98.8    | P/P       | 27 - 180       |
| 2128694       | Chlorothalonil     | 116     | 101     | P/P       | 10 - 216       |
| 2128694       | Cis-Nonachlor      | 92.1    | 79.3    | P/P       | 55 - 112       |
| 2128694       | Cypermethrin       | 117     | 102     | P/P       | 40 - 153       |
| 2128694       | DDD-p,p'           | 96.3    | 85.0    | P/P       | 53 - 128       |
| 2128694       | DDE-p,p'           | 93.3    | 79.0    | P/P       | 48 - 116       |
| 2128694       | DDT-p,p'           | 91.3    | 88.1    | P/P       | 47 - 128       |
| 2128694       | Delta-BHC          | 127     | 110     | P/P       | 48 - 221       |
| 2128694       | Dicofol            | 109     | 93.5    | P/P       | 10 - 147       |
| 2128694       | Dieldrin           | 91.7    | 71.3    | P/P       | 48 - 128       |
| 2128694       | Endosulfan I       | 100     | 86.9    | P/P       | 58 - 126       |
| 2128694       | Endosulfan II      | 103     | 93.0    | P/P       | 50 - 150       |
| 2128694       | Endosulfan Sulfate | 92.8    | 84.6    | P/P       | 56 - 130       |
| 2128694       | Endrin             | 105     | 90.1    | P/P       | 50 - 126       |
| 2128694       | Endrin Aldehyde    | 85.8    | 76.4    | P/P       | 12 - 145       |
| 2128694       | Endrin Ketone      | 95.3    | 87.0    | P/P       | 59 - 132       |
| 2128694       | Ethalfuralin       | 99.2    | 82.4    | P/P       | 65 - 122       |
| 2128694       | Gamma-BHC          | 114     | 99.3    | P/P       | 40 - 190       |
| 2128694       | Gamma-Chlordane    | 89.1    | 76.6    | P/P       | 50 - 112       |
| 2128694       | Heptachlor         | 84.1    | 73.8    | P/P       | 41 - 98.0      |
| 2128694       | Heptachlor Epoxide | 94.2    | 82.3    | P/P       | 55 - 117       |
| 2128694       | Hexachlorobenzene  | 90.9    | 79.6    | P/P       | 47 - 91.0      |
| 2128694       | Methoxychlor       | 115     | 101     | P/P       | 55 - 133       |
| 2128694       | Mirex              | 85.4    | 74.6    | P/P       | 44 - 101       |
| 2128694       | Permethrin         | 104     | 92.4    | P/P       | 52 - 124       |
| 2128694       | Trans-Nonachlor    | 89.9    | 77.4    | P/P       | 53 - 99.0      |
| 2128694       | Trifluralin        | 99.6    | 85.4    | P/P       | 10 - 201       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276  
Batch ID: P372719

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2128764       | Chlordane | 127     | 73.4    | P/P       | 34 - 136       |
| 2128764       | Toxaphene | 68.0    | 66.4    | P/P       | 22 - 152       |

Reference Method: EPA 8321B  
Batch ID: P372335

| Spiked Sample | Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------------|---------|---------|-----------|----------------|
| 2127367       | 3-Hydroxycarbofuran | 89.8    | 99.4    | P/P       | 40 - 160       |
| 2127367       | Aldicarb            | 59.7    | 73.4    | P/P       | 30 - 160       |
| 2127367       | Aldicarb Sulfone    | 96.7    | 116     | P/P       | 40 - 160       |
| 2127367       | Aldicarb Sulfoxide  | 37.9    | 40.5    | F/P       | 40 - 160       |
| 2127367       | Carbaryl            | 73.8    | 77.9    | P/P       | 40 - 160       |
| 2127367       | Carbofuran          | 69.0    | 73.4    | P/P       | 40 - 160       |
| 2127367       | Methiocarb          | 74.3    | 80.2    | P/P       | 40 - 160       |
| 2127367       | Methomyl            | 64.5    | 77.7    | P/P       | 40 - 160       |
| 2127367       | Oxamyl              | 86.9    | 91.3    | P/P       | 40 - 160       |
| 2127367       | Propoxur            | 69.7    | 72.7    | P/P       | 40 - 160       |

Reference Method: EPA 8321B  
Batch ID: P372361

| Spiked Sample | Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------|---------|---------|-----------|----------------|
| 2127774       | Acesulfame K | 86.6    | 82.5    | P/P       | 40 - 150       |
| 2127774       | AMPA         | 82.9    | 80.2    | P/P       | 40 - 150       |
| 2127774       | Endothall    | 115     | 101     | P/P       | 40 - 150       |
| 2127774       | Glufosinate  | 80.0    | 75.5    | P/P       | 40 - 150       |
| 2127774       | Glyphosate   | 84.8    | 85.0    | P/P       | 40 - 140       |
| 2127774       | Sucralose    | 30.6    | 26.5    | F/F       | 40 - 150       |

Reference Method: EPA 8321B  
Batch ID: P372475

| Spiked Sample | Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------------|---------|---------|-----------|----------------|
| 2127757       | 2,4-D            | 141     | 152     | P/P       | 40 - 160       |
| 2127757       | Acetaminophen    | 95.1    | 85.5    | P/P       | 30 - 160       |
| 2127757       | Acetamiprid      | 110     | 120     | P/P       | 40 - 160       |
| 2127757       | Afidopyropen     | 116     | 122     | P/P       | 40 - 160       |
| 2127757       | Benzovindiflupyr | 111     | 114     | P/P       | 40 - 160       |
| 2127757       | Carbamazepine    | 121     | 117     | P/P       | 40 - 160       |
| 2127757       | Clothianidin     | 111     | 111     | P/P       | 40 - 160       |
| 2127757       | Dinotefuran      | 109     | 115     | P/P       | 40 - 160       |
| 2127757       | Diuron           | 113     | 110     | P/P       | 40 - 160       |
| 2127757       | Fenuron          | 116     | 101     | P/P       | 40 - 160       |
| 2127757       | Fluridone        | 104     | 94.7    | P/P       | 40 - 160       |
| 2127757       | Hydrocodone      | 110     | 111     | P/P       | 40 - 160       |
| 2127757       | Ibuprofen        | 98.4    | 92.6    | P/P       | 30 - 160       |
| 2127757       | Imidacloprid     | 171     | 158     | F/P       | 40 - 160       |
| 2127757       | Linuron          | 79.3    | 77.8    | P/P       | 40 - 160       |
| 2127757       | Mandestrobin     | 124     | 117     | P/P       | 40 - 160       |
| 2127757       | MCP              | 149     | 153     | P/P       | 40 - 160       |
| 2127757       | Naproxen         | 91.5    | 91.2    | P/P       | 40 - 160       |
| 2127757       | Primidone        | 98.5    | 116     | P/P       | 40 - 160       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B  
Batch ID: P372475

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2127757       | Pyraclostrobin | 107     | 112     | P/P       | 30 - 160       |
| 2127757       | Thiamethoxam   | 158     | 162     | P/F       | 40 - 160       |
| 2127757       | Tolfenpyrad    | 74.6    | 83.6    | P/P       | 40 - 160       |
| 2127757       | Triclopyr      | 111     | 118     | P/P       | 30 - 160       |

Reference Method: SM 4500 F-C-97  
Batch ID: P372881

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2128000       | Fluoride  | 95.3    | 94.8    | P/P       | 89 - 106       |

Reference Method: SM 5310 B-00  
Batch ID: P372782

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2127988       | Organic Carbon | 100     | 98.1    | P/P       | 85 - 115       |

## Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P372505

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2127985                  | Turbidity | 5.28      | Sample            | P         | 0 - 20         |

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P372506

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2128009                  | Turbidity | 5.61      | Sample            | P         | 0 - 20         |

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P372597

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2127981                  | Barium    | 0.528     | Spike             | P         | 0 - 20         |
| 2127981                  | Calcium   | 1.53      | Spike             | P         | 0 - 20         |
| 2127981                  | Iron      | 1.69      | Spike             | P         | 0 - 20         |
| 2127981                  | Magnesium | 1.69      | Spike             | P         | 0 - 20         |
| 2127981                  | Potassium | 1.49      | Spike             | P         | 0 - 20         |
| 2127981                  | Sodium    | 1.22      | Spike             | P         | 0 - 20         |
| 2127981                  | Zinc      | 0.303     | Spike             | P         | 0 - 20         |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P372597

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2127981                  | Aluminum  | 1.18      | Spike             | P         | 0 - 20         |
| 2127981                  | Antimony  | 1.30      | Spike             | P         | 0 - 20         |
| 2127981                  | Arsenic   | 3.14      | Spike             | P         | 0 - 20         |
| 2127981                  | Boron     | 1.01      | Spike             | P         | 0 - 20         |
| 2127981                  | Cadmium   | 1.24      | Spike             | P         | 0 - 20         |
| 2127981                  | Chromium  | 4.43      | Spike             | P         | 0 - 20         |
| 2127981                  | Copper    | 4.51      | Spike             | P         | 0 - 20         |
| 2127981                  | Lead      | 0.369     | Spike             | P         | 0 - 20         |
| 2127981                  | Selenium  | 4.81      | Spike             | P         | 0 - 20         |
| 2127981                  | Silver    | 0.321     | Spike             | P         | 0 - 20         |
| 2127981                  | Thallium  | 1.05      | Spike             | P         | 0 - 20         |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P373262

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2127982                  | Nickel    | 0.953     | Spike             | P         | 0 - 20         |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P373245

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
|--------------------------|-----------|-----------|-------------------|-----------|----------------|

## Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P373245

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2128006                  | Chloride  | 0.272     | Sample            | P         | 0 - 20         |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P373560

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2128006                  | Sulfate   | 0.228     | Sample            | P         | 0 - 20         |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P372883

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2128067                  | Ammonia-N | 1.35      | Spike             | P         | 0 - 20         |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P372884

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2128267                  | Ammonia-N | 1.39      | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P372619

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2128068                  | Kjeldahl Nitrogen | 4.81      | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P372652

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2128071                  | Kjeldahl Nitrogen | 0.409     | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P372734

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2128011                  | NO2NO3-N  | 0.905     | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P372917

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2127847                  | NO2NO3-N  | 0.499     | Spike             | P         | 0 - 20         |

## Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0  
 Batch ID: P373064

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2129444                  | NO2NO3-N  | 0.766     | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0  
 Batch ID: P372741

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2127988                  | Total-P   | 2.35      | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0  
 Batch ID: P372744

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2128004                  | Total-P   | 3.55      | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
 Batch ID: P372515

| Replicated<br>Lab Sample | Component     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------|-----------|-------------------|-----------|----------------|
| 2127715                  | O-Phosphate-P | 0.409     | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
 Batch ID: P372517

| Replicated<br>Lab Sample | Component     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------|-----------|-------------------|-----------|----------------|
| 2127935                  | O-Phosphate-P | 0.196     | Spike             | P         | 0 - 20         |

Reference Method: EPA 8270E  
 Batch ID: P372696

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 2129047                  | Acetochlor          | 0.0689    | Spike             | P         | 0 - 30         |
| 2129047                  | Alachlor            | 1.27      | Spike             | P         | 0 - 30         |
| 2129047                  | Ametryn             | 4.12      | Spike             | P         | 0 - 30         |
| 2129047                  | Atrazine            | 2.72      | Spike             | P         | 0 - 30         |
| 2129047                  | Atrazine Desethyl   | 16.7      | Spike             | P         | 0 - 30         |
| 2129047                  | Azinphos Methyl     | 8.78      | Spike             | P         | 0 - 30         |
| 2129047                  | Bromacil            | 3.98      | Spike             | P         | 0 - 30         |
| 2129047                  | Butylate            | 15.5      | Spike             | P         | 0 - 30         |
| 2129047                  | Chlorpyrifos Ethyl  | 0.263     | Spike             | P         | 0 - 30         |
| 2129047                  | Chlorpyrifos Methyl | 0.585     | Spike             | P         | 0 - 30         |
| 2129047                  | Cyanazine           | 0.951     | Spike             | P         | 0 - 30         |
| 2129047                  | Demeton             | 4.68      | Spike             | P         | 0 - 30         |
| 2129047                  | Diazinon            | 3.12      | Spike             | P         | 0 - 30         |
| 2129047                  | Dimethenamid        | 5.64      | Spike             | P         | 0 - 30         |
| 2129047                  | Disulfoton          | 3.99      | Spike             | P         | 0 - 30         |
| 2129047                  | Dithiopyr           | 0.118     | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8270E  
Batch ID: P372696

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 2129047                  | EPTC                | 10.1      | Spike             | P         | 0 - 30         |
| 2129047                  | Ethion              | 20.3      | Spike             | P         | 0 - 30         |
| 2129047                  | Ethoprop            | 5.62      | Spike             | P         | 0 - 30         |
| 2129047                  | Fenamiphos          | 3.96      | Spike             | P         | 0 - 30         |
| 2129047                  | Fipronil            | 1.87      | Spike             | P         | 0 - 30         |
| 2129047                  | Fipronil Desulfinyl | 2.36      | Spike             | P         | 0 - 30         |
| 2129047                  | Fipronil Sulfide    | 0.444     | Spike             | P         | 0 - 30         |
| 2129047                  | Fipronil Sulfone    | 4.88      | Spike             | P         | 0 - 30         |
| 2129047                  | Fonofos             | 2.53      | Spike             | P         | 0 - 30         |
| 2129047                  | Hexazinone          | 0.412     | Spike             | P         | 0 - 30         |
| 2129047                  | Malathion           | 2.13      | Spike             | P         | 0 - 30         |
| 2129047                  | Metaxyl             | 1.54      | Spike             | P         | 0 - 30         |
| 2129047                  | Metolachlor         | 2.24      | Spike             | P         | 0 - 30         |
| 2129047                  | Metribuzin          | 20.4      | Spike             | P         | 0 - 30         |
| 2129047                  | Mevinphos           | 11.5      | Spike             | P         | 0 - 30         |
| 2129047                  | Molinate            | 10.7      | Spike             | P         | 0 - 30         |
| 2129047                  | Norflurazon         | 9.03      | Spike             | P         | 0 - 30         |
| 2129047                  | Oxadiazon           | 0.791     | Spike             | P         | 0 - 30         |
| 2129047                  | Parathion Ethyl     | 2.35      | Spike             | P         | 0 - 30         |
| 2129047                  | Parathion Methyl    | 2.24      | Spike             | P         | 0 - 30         |
| 2129047                  | Pendimethalin       | 4.42      | Spike             | P         | 0 - 30         |
| 2129047                  | Phorate             | 1.11      | Spike             | P         | 0 - 30         |
| 2129047                  | Prodiamine          | 0.883     | Spike             | P         | 0 - 30         |
| 2129047                  | Prometon            | 17.7      | Spike             | P         | 0 - 30         |
| 2129047                  | Prometryn           | 2.67      | Spike             | P         | 0 - 30         |
| 2129047                  | Simazine            | 3.49      | Spike             | P         | 0 - 30         |
| 2129047                  | Tebuconazole        | 17.8      | Spike             | P         | 0 - 30         |
| 2129047                  | Terbufos            | 4.13      | Spike             | P         | 0 - 30         |
| 2129047                  | Terbutylazine       | 1.69      | Spike             | P         | 0 - 30         |
| LFB                      | Acetochlor          | 9.33      | LCS               | P         | 0 - 30         |
| LFB                      | Alachlor            | 4.76      | LCS               | P         | 0 - 30         |
| LFB                      | Ametryn             | 1.52      | LCS               | P         | 0 - 30         |
| LFB                      | Atrazine            | 2.14      | LCS               | P         | 0 - 30         |
| LFB                      | Atrazine Desethyl   | 10.8      | LCS               | P         | 0 - 30         |
| LFB                      | Azinphos Methyl     | 19.8      | LCS               | P         | 0 - 30         |
| LFB                      | Bromacil            | 9.06      | LCS               | P         | 0 - 30         |
| LFB                      | Butylate            | 10.1      | LCS               | P         | 0 - 30         |
| LFB                      | Chlorpyrifos Ethyl  | 8.08      | LCS               | P         | 0 - 30         |
| LFB                      | Chlorpyrifos Methyl | 7.12      | LCS               | P         | 0 - 30         |
| LFB                      | Cyanazine           | 12.4      | LCS               | P         | 0 - 30         |
| LFB                      | Demeton             | 9.41      | LCS               | P         | 0 - 30         |
| LFB                      | Diazinon            | 13.9      | LCS               | P         | 0 - 30         |
| LFB                      | Dimethenamid        | 7.45      | LCS               | P         | 0 - 30         |
| LFB                      | Disulfoton          | 10.2      | LCS               | P         | 0 - 30         |
| LFB                      | Dithiopyr           | 6.47      | LCS               | P         | 0 - 30         |
| LFB                      | EPTC                | 5.91      | LCS               | P         | 0 - 30         |
| LFB                      | Ethion              | 5.73      | LCS               | P         | 0 - 30         |
| LFB                      | Ethoprop            | 8.11      | LCS               | P         | 0 - 30         |
| LFB                      | Fenamiphos          | 1.60      | LCS               | P         | 0 - 30         |
| LFB                      | Fipronil            | 7.80      | LCS               | P         | 0 - 30         |
| LFB                      | Fipronil Desulfinyl | 12.0      | LCS               | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8270E  
Batch ID: P372696

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| LFB                      | Fipronil Sulfide | 21.0      | LCS               | P         | 0 - 30         |
| LFB                      | Fipronil Sulfone | 8.52      | LCS               | P         | 0 - 30         |
| LFB                      | Fonofos          | 6.13      | LCS               | P         | 0 - 30         |
| LFB                      | Hexazinone       | 8.33      | LCS               | P         | 0 - 30         |
| LFB                      | Malathion        | 6.14      | LCS               | P         | 0 - 30         |
| LFB                      | Metalaxyl        | 7.79      | LCS               | P         | 0 - 30         |
| LFB                      | Metolachlor      | 12.5      | LCS               | P         | 0 - 30         |
| LFB                      | Metribuzin       | 17.0      | LCS               | P         | 0 - 30         |
| LFB                      | Mevinphos        | 6.19      | LCS               | P         | 0 - 30         |
| LFB                      | Molinate         | 7.20      | LCS               | P         | 0 - 30         |
| LFB                      | Norflurazon      | 3.98      | LCS               | P         | 0 - 30         |
| LFB                      | Oxadiazon        | 9.83      | LCS               | P         | 0 - 30         |
| LFB                      | Parathion Ethyl  | 17.3      | LCS               | P         | 0 - 30         |
| LFB                      | Parathion Methyl | 19.0      | LCS               | P         | 0 - 30         |
| LFB                      | Pendimethalin    | 13.2      | LCS               | P         | 0 - 30         |
| LFB                      | Phorate          | 20.3      | LCS               | P         | 0 - 30         |
| LFB                      | Prodiamine       | 10.2      | LCS               | P         | 0 - 30         |
| LFB                      | Prometon         | 13.7      | LCS               | P         | 0 - 30         |
| LFB                      | Prometryn        | 11.6      | LCS               | P         | 0 - 30         |
| LFB                      | Simazine         | 6.87      | LCS               | P         | 0 - 30         |
| LFB                      | Tebuconazole     | 0.945     | LCS               | P         | 0 - 30         |
| LFB                      | Terbufos         | 5.58      | LCS               | P         | 0 - 30         |
| LFB                      | Terbuthylazine   | 9.78      | LCS               | P         | 0 - 30         |

Reference Method: EPA 8270E  
Batch ID: P372719

| Replicated<br>Lab Sample | Component          | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------------|-----------|-------------------|-----------|----------------|
| 2128694                  | Aldrin             | 21.2      | Spike             | P         | 0 - 30         |
| 2128694                  | Alpha-BHC          | 5.24      | Spike             | P         | 0 - 30         |
| 2128694                  | Alpha-Chlordane    | 14.5      | Spike             | P         | 0 - 30         |
| 2128694                  | Beta-BHC           | 16.2      | Spike             | P         | 0 - 30         |
| 2128694                  | Bifenthrin         | 11.8      | Spike             | P         | 0 - 30         |
| 2128694                  | Carbophenothion    | 13.1      | Spike             | P         | 0 - 30         |
| 2128694                  | Chlorothalonil     | 14.2      | Spike             | P         | 0 - 30         |
| 2128694                  | Cis-Nonachlor      | 15.0      | Spike             | P         | 0 - 30         |
| 2128694                  | Cypermethrin       | 14.0      | Spike             | P         | 0 - 30         |
| 2128694                  | DDD-p,p'           | 12.4      | Spike             | P         | 0 - 30         |
| 2128694                  | DDE-p,p'           | 16.6      | Spike             | P         | 0 - 30         |
| 2128694                  | DDT-p,p'           | 3.58      | Spike             | P         | 0 - 30         |
| 2128694                  | Delta-BHC          | 14.8      | Spike             | P         | 0 - 30         |
| 2128694                  | Dicofol            | 15.6      | Spike             | P         | 0 - 30         |
| 2128694                  | Dieldrin           | 16.6      | Spike             | P         | 0 - 30         |
| 2128694                  | Endosulfan I       | 14.1      | Spike             | P         | 0 - 30         |
| 2128694                  | Endosulfan II      | 10.6      | Spike             | P         | 0 - 30         |
| 2128694                  | Endosulfan Sulfate | 9.21      | Spike             | P         | 0 - 30         |
| 2128694                  | Endrin             | 15.0      | Spike             | P         | 0 - 30         |
| 2128694                  | Endrin Aldehyde    | 11.6      | Spike             | P         | 0 - 30         |
| 2128694                  | Endrin Ketone      | 9.04      | Spike             | P         | 0 - 30         |
| 2128694                  | Ethalfuralin       | 18.5      | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8270E  
Batch ID: P372719

| Replicated<br>Lab Sample | Component          | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------------|-----------|-------------------|-----------|----------------|
| 2128694                  | Gamma-BHC          | 14.2      | Spike             | P         | 0 - 30         |
| 2128694                  | Gamma-Chlordane    | 15.1      | Spike             | P         | 0 - 30         |
| 2128694                  | Heptachlor         | 13.0      | Spike             | P         | 0 - 30         |
| 2128694                  | Heptachlor Epoxide | 13.4      | Spike             | P         | 0 - 30         |
| 2128694                  | Hexachlorobenzene  | 13.2      | Spike             | P         | 0 - 30         |
| 2128694                  | Methoxychlor       | 12.9      | Spike             | P         | 0 - 30         |
| 2128694                  | Mirex              | 13.5      | Spike             | P         | 0 - 30         |
| 2128694                  | Permethrin         | 11.5      | Spike             | P         | 0 - 30         |
| 2128694                  | Trans-Nonachlor    | 14.8      | Spike             | P         | 0 - 30         |
| 2128694                  | Trifluralin        | 15.3      | Spike             | P         | 0 - 30         |
| LFB                      | Aldrin             | 7.74      | LCS               | P         | 0 - 30         |
| LFB                      | Alpha-BHC          | 3.83      | LCS               | P         | 0 - 30         |
| LFB                      | Alpha-Chlordane    | 0.701     | LCS               | P         | 0 - 30         |
| LFB                      | Beta-BHC           | 3.25      | LCS               | P         | 0 - 30         |
| LFB                      | Bifenthrin         | 6.18      | LCS               | P         | 0 - 30         |
| LFB                      | Carbophenothion    | 5.04      | LCS               | P         | 0 - 30         |
| LFB                      | Chlorothalonil     | 13.7      | LCS               | P         | 0 - 30         |
| LFB                      | Cis-Nonachlor      | 0.367     | LCS               | P         | 0 - 30         |
| LFB                      | Cypermethrin       | 5.31      | LCS               | P         | 0 - 30         |
| LFB                      | DDD-p,p'           | 2.07      | LCS               | P         | 0 - 30         |
| LFB                      | DDE-p,p'           | 1.60      | LCS               | P         | 0 - 30         |
| LFB                      | DDT-p,p'           | 4.41      | LCS               | P         | 0 - 30         |
| LFB                      | Delta-BHC          | 1.92      | LCS               | P         | 0 - 30         |
| LFB                      | Dicofol            | 9.19      | LCS               | P         | 0 - 30         |
| LFB                      | Dieldrin           | 0.614     | LCS               | P         | 0 - 30         |
| LFB                      | Endosulfan I       | 0.160     | LCS               | P         | 0 - 30         |
| LFB                      | Endosulfan II      | 1.55      | LCS               | P         | 0 - 30         |
| LFB                      | Endosulfan Sulfate | 0.236     | LCS               | P         | 0 - 30         |
| LFB                      | Endrin             | 2.61      | LCS               | P         | 0 - 30         |
| LFB                      | Endrin Aldehyde    | 1.09      | LCS               | P         | 0 - 30         |
| LFB                      | Endrin Ketone      | 0.286     | LCS               | P         | 0 - 30         |
| LFB                      | Ethalfuralin       | 1.60      | LCS               | P         | 0 - 30         |
| LFB                      | Gamma-BHC          | 1.45      | LCS               | P         | 0 - 30         |
| LFB                      | Gamma-Chlordane    | 2.48      | LCS               | P         | 0 - 30         |
| LFB                      | Heptachlor         | 0.954     | LCS               | P         | 0 - 30         |
| LFB                      | Heptachlor Epoxide | 0.154     | LCS               | P         | 0 - 30         |
| LFB                      | Hexachlorobenzene  | 5.24      | LCS               | P         | 0 - 30         |
| LFB                      | Methoxychlor       | 3.34      | LCS               | P         | 0 - 30         |
| LFB                      | Mirex              | 0.0463    | LCS               | P         | 0 - 30         |
| LFB                      | Permethrin         | 5.16      | LCS               | P         | 0 - 30         |
| LFB                      | Trans-Nonachlor    | 1.96      | LCS               | P         | 0 - 30         |
| LFB                      | Trifluralin        | 3.84      | LCS               | P         | 0 - 30         |

Reference Method: EPA 8276  
Batch ID: P372719

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2128764                  | Chlordane | 53.6      | Spike             | F         | 0 - 30         |
| 2128764                  | Toxaphene | 2.40      | Spike             | P         | 0 - 30         |
| LFB                      | Chlordane | 3.15      | LCS               | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8276  
Batch ID: P372719

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| LFB                      | Toxaphene | 9.53      | LCS               | P         | 0 - 30         |

Reference Method: EPA 8321B  
Batch ID: P372335

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 2127367                  | 3-Hydroxycarbofuran | 10.1      | Spike             | P         | 0 - 30         |
| 2127367                  | Aldicarb            | 20.5      | Spike             | P         | 0 - 30         |
| 2127367                  | Aldicarb Sulfone    | 18.1      | Spike             | P         | 0 - 30         |
| 2127367                  | Aldicarb Sulfoxide  | 6.79      | Spike             | P         | 0 - 30         |
| 2127367                  | Carbaryl            | 5.36      | Spike             | P         | 0 - 30         |
| 2127367                  | Carbofuran          | 6.17      | Spike             | P         | 0 - 30         |
| 2127367                  | Methiocarb          | 7.71      | Spike             | P         | 0 - 30         |
| 2127367                  | Methomyl            | 18.5      | Spike             | P         | 0 - 30         |
| 2127367                  | Oxamyl              | 4.96      | Spike             | P         | 0 - 30         |
| 2127367                  | Propoxur            | 4.18      | Spike             | P         | 0 - 30         |

Reference Method: EPA 8321B  
Batch ID: P372361

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2127774                  | Acesulfame K | 4.81      | Spike             | P         | 0 - 30         |
| 2127774                  | AMPA         | 3.39      | Spike             | P         | 0 - 30         |
| 2127774                  | Endothall    | 12.9      | Spike             | P         | 0 - 30         |
| 2127774                  | Glufosinate  | 5.79      | Spike             | P         | 0 - 30         |
| 2127774                  | Glyphosate   | 0.133     | Spike             | P         | 0 - 30         |
| 2127774                  | Sucralose    | 14.5      | Spike             | P         | 0 - 30         |

Reference Method: EPA 8321B  
Batch ID: P372475

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 2127757                  | 2,4-D            | 6.65      | Spike             | P         | 0 - 30         |
| 2127757                  | Acetaminophen    | 10.6      | Spike             | P         | 0 - 30         |
| 2127757                  | Acetamiprid      | 8.74      | Spike             | P         | 0 - 30         |
| 2127757                  | Afidopyropen     | 4.64      | Spike             | P         | 0 - 30         |
| 2127757                  | Bentazon         | 1.47      | Spike             | P         | 0 - 30         |
| 2127757                  | Benzovindiflupyr | 2.69      | Spike             | P         | 0 - 30         |
| 2127757                  | Carbamazepine    | 3.36      | Spike             | P         | 0 - 30         |
| 2127757                  | Clothianidin     | 0.124     | Spike             | P         | 0 - 30         |
| 2127757                  | Dinotefuran      | 5.29      | Spike             | P         | 0 - 30         |
| 2127757                  | Diuron           | 1.68      | Spike             | P         | 0 - 30         |
| 2127757                  | Fenuron          | 14.6      | Spike             | P         | 0 - 30         |
| 2127757                  | Fluridone        | 5.60      | Spike             | P         | 0 - 30         |
| 2127757                  | Hydrocodone      | 1.23      | Spike             | P         | 0 - 30         |
| 2127757                  | Ibuprofen        | 6.09      | Spike             | P         | 0 - 30         |
| 2127757                  | Imazapyr         | 1.59      | Spike             | P         | 0 - 30         |
| 2127757                  | Imidacloprid     | 6.50      | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8321B  
Batch ID: P372475

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2127757                  | Linuron        | 2.00      | Spike             | P         | 0 - 30         |
| 2127757                  | Mandestrobin   | 5.93      | Spike             | P         | 0 - 30         |
| 2127757                  | MCP            | 2.87      | Spike             | P         | 0 - 30         |
| 2127757                  | Naproxen       | 0.384     | Spike             | P         | 0 - 30         |
| 2127757                  | Primidone      | 15.9      | Spike             | P         | 0 - 30         |
| 2127757                  | Pyraclostrobin | 5.10      | Spike             | P         | 0 - 30         |
| 2127757                  | Thiamethoxam   | 2.15      | Spike             | P         | 0 - 30         |
| 2127757                  | Tolfenpyrad    | 11.4      | Spike             | P         | 0 - 30         |
| 2127757                  | Triclopyr      | 6.09      | Spike             | P         | 0 - 30         |

Reference Method: SM 2120 B  
Batch ID: P372527

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2128000                  | Color (true) | 10.7      | Sample            | P         | 0 - 20         |

Reference Method: SM 2320 B-97  
Batch ID: P372877

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 2128000                  | Total Alkalinity | 0.360     | Sample            | P         | 0 - 2.8        |

Reference Method: SM 2540 C-97  
Batch ID: P373302

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2128006                  | TDS       | 8.00      | Sample            | P         | 0 - 10         |

Reference Method: SM 4500 F-C-97  
Batch ID: P372881

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2128000                  | Fluoride  | 0.477     | Spike             | P         | 0 - 2.5        |

Reference Method: SM 5310 B-00  
Batch ID: P372782

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2127988                  | Organic Carbon | 1.97      | Spike             | P         | 0 - 20         |

\* Sample, spike and/or laboratory control sample precision (LCS) is reported.

## Quality Assurance Report Surrogates

Lab Sample ID: 2128030  
Field Sample ID: 20030773

| Reference Method | Surrogate   | % Rec. | Pass/Fail | Control Limits |
|------------------|-------------|--------|-----------|----------------|
| EPA 8321B        | Carbaryl-d7 | 90.7   | P         | 30 - 160       |

Lab Sample ID: 2128031  
Field Sample ID: 20030773

| Reference Method | Surrogate          | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3           | 158    | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 71.7   | P         | 30 - 160       |
| EPA 8321B        | Bentazon-d7        | 81.7   | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 101    | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 81.1   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6       | 128    | P         | 30 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 93.9   | P         | 30 - 160       |
| EPA 8321B        | Ibuprofen-d3       | 98.0   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5       | 90.0   | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6       | 73.3   | P         | 30 - 160       |

Lab Sample ID: 2128032  
Field Sample ID: G2NE1183

| Reference Method | Surrogate          | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3           | 140    | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 67.3   | P         | 30 - 160       |
| EPA 8321B        | Bentazon-d7        | 62.4   | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 92.3   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 73.1   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6       | 120    | P         | 30 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 86.6   | P         | 30 - 160       |
| EPA 8321B        | Ibuprofen-d3       | 89.3   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5       | 85.4   | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6       | 106    | P         | 30 - 160       |

Lab Sample ID: 2128042  
Field Sample ID: 20030773

| Reference Method | Surrogate            | % Rec. | Pass/Fail | Control Limits |
|------------------|----------------------|--------|-----------|----------------|
| EPA 8270E        | Decachlorobiphenyl   | 101    | P         | 39 - 109       |
| EPA 8270E        | Tetrachloro-m-xylene | 73.6   | P         | 28 - 96.0      |
| EPA 8276         | Decachlorobiphenyl   | 57.8   | P         | 30 - 103       |
| EPA 8276         | PCNB                 | 130    | P         | 37 - 143       |

Lab Sample ID: 2128043  
Field Sample ID: 20030773

| Reference Method | Surrogate    | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------|--------|-----------|----------------|
| EPA 8270E        | Simazine-d10 | 104    | P         | 68 - 130       |
| EPA 8270E        | Terbufos-d10 | 106    | P         | 61 - 136       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A94965

Included Lab Sample IDs: 2128003, 2128006, 2128009, 2128010

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Turbidity | 99.0    | 99.0    | P/P        | 95 - 105       |
| Turbidity | 99.5    | 99.0    | P/P        | 95 - 105       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A94971

Included Lab Sample IDs: 2128005, 2128008, 2128013, 2128014

| Component     | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------|---------|---------|------------|----------------|
| O-Phosphate-P | 100     | 98.3    | P/P        | 90 - 110       |
| O-Phosphate-P | 97.9    | 98.9    | P/P        | 90 - 110       |
| O-Phosphate-P | 98.9    | 98.0    | P/P        | 90 - 110       |

Reference Method: SM 2120 B

Run ID: A94979

Included Lab Sample IDs: 2128003, 2128006, 2128009, 2128010

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Color (true) | 98.4    | 99.8    | P/P        | 90 - 115       |

Reference Method: EPA 8321B

Run ID: A94981

Included Lab Sample IDs: 2128031, 2128032

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Sucralose | 121     | 114     | P/P        | 60 - 160       |

Reference Method: EPA 8321B

Run ID: A94986

Included Lab Sample IDs: 2128031, 2128032

| Component   | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------|---------|---------|------------|----------------|
| AMPA        | 92.0    | 87.8    | P/P        | 60 - 160       |
| AMPA        | 97.2    | 92.0    | P/P        | 60 - 160       |
| Glufosinate | 94.5    | 97.4    | P/P        | 60 - 160       |
| Glufosinate | 97.4    | 101     | P/P        | 60 - 160       |
| Glyphosate  | 109     | 118     | P/P        | 60 - 160       |
| Glyphosate  | 115     | 109     | P/P        | 60 - 160       |

Reference Method: EPA 8321B

Run ID: A95006

Included Lab Sample IDs: 2128031, 2128032

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Acesulfame K | 70.7    | 65.6    | P/P        | 60 - 160       |
| Endothall    | 105     | 107     | P/P        | 60 - 160       |

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A95043

Included Lab Sample IDs: 2128044, 2128045, 2128046, 2128047

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
|-----------|---------|---------|------------|----------------|

## Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A95043

Included Lab Sample IDs: 2128044, 2128045, 2128046, 2128047

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Barium    | 101     | 101     | P/P        | 90 - 110       |
| Barium    | 101     | 101     | P/P        | 90 - 110       |
| Calcium   | 102     | 101     | P/P        | 90 - 110       |
| Calcium   | 103     | 102     | P/P        | 90 - 110       |
| Iron      | 101     | 101     | P/P        | 90 - 110       |
| Iron      | 101     | 101     | P/P        | 90 - 110       |
| Magnesium | 102     | 102     | P/P        | 90 - 110       |
| Magnesium | 102     | 102     | P/P        | 90 - 110       |
| Potassium | 100     | 101     | P/P        | 90 - 110       |
| Potassium | 101     | 101     | P/P        | 90 - 110       |
| Sodium    | 100     | 101     | P/P        | 90 - 110       |
| Sodium    | 101     | 98.8    | P/P        | 90 - 110       |
| Zinc      | 99.1    | 99.6    | P/P        | 90 - 110       |
| Zinc      | 99.3    | 99.1    | P/P        | 90 - 110       |

Reference Method: EPA 8321B

Run ID: A95046

Included Lab Sample IDs: 2128031, 2128032

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| 2,4-D               | 107     | 116     | P/P        | 50 - 150       |
| 3-Hydroxycarbofuran | 105     | 100     | P/P        | 60 - 150       |
| Acetaminophen       | 106     | 104     | P/P        | 60 - 160       |
| Acetamiprid         | 106     | 106     | P/P        | 50 - 150       |
| Afidopyropen        | 123     | 119     | P/P        | 50 - 150       |
| Aldicarb            | 101     | 91.5    | P/P        | 60 - 150       |
| Aldicarb Sulfone    | 87.1    | 103     | P/P        | 50 - 150       |
| Aldicarb Sulfoxide  | 95.7    | 97.1    | P/P        | 50 - 150       |
| Bentazon            | 126     | 128     | P/P        | 50 - 160       |
| Benzovindiflupyr    | 113     | 126     | P/P        | 50 - 150       |
| Carbamazepine       | 111     | 114     | P/P        | 60 - 150       |
| Carbaryl            | 121     | 123     | P/P        | 60 - 150       |
| Carbofuran          | 103     | 107     | P/P        | 50 - 150       |
| Clothianidin        | 100     | 109     | P/P        | 60 - 150       |
| Dinotefuran         | 100     | 105     | P/P        | 50 - 150       |
| Diuron              | 117     | 114     | P/P        | 60 - 150       |
| Fenuron             | 106     | 107     | P/P        | 60 - 150       |
| Fluridone           | 112     | 105     | P/P        | 60 - 160       |
| Hydrocodone         | 101     | 97.5    | P/P        | 60 - 150       |
| Ibuprofen           | 118     | 119     | P/P        | 50 - 160       |
| Imazapyr            | 103     | 87.4    | P/P        | 50 - 150       |
| Imidacloprid        | 110     | 108     | P/P        | 60 - 150       |
| Linuron             | 101     | 103     | P/P        | 60 - 150       |
| Mandestrobin        | 125     | 124     | P/P        | 50 - 150       |
| MCPP                | 135     | 107     | P/P        | 50 - 150       |
| Methiocarb          | 104     | 111     | P/P        | 50 - 150       |
| Methomyl            | 95.4    | 99.0    | P/P        | 50 - 150       |
| Naproxen            | 97.7    | 144     | P/P        | 50 - 160       |
| Oxamyl              | 96.8    | 98.0    | P/P        | 50 - 150       |
| Primidone           | 102     | 91.6    | P/P        | 60 - 150       |
| Propoxur            | 104     | 106     | P/P        | 50 - 150       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A95046

Included Lab Sample IDs: 2128031, 2128032

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Pyraclostrobin | 113     | 117     | P/P        | 60 - 150       |
| Thiamethoxam   | 101     | 107     | P/P        | 50 - 150       |
| Tolfenpyrad    | 113     | 114     | P/P        | 60 - 150       |
| Triclopyr      | 127     | 115     | P/P        | 50 - 150       |

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A95064

Included Lab Sample IDs: 2128011, 2128012

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

Reference Method: SM 5310 B-00

Run ID: A95085

Included Lab Sample IDs: 2128004, 2128007, 2128011, 2128012

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Organic Carbon | 103     | 97.6    | P/P        | 90 - 110       |
| Organic Carbon | 108     | 103     | P/P        | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A95099

Included Lab Sample IDs: 2128007, 2128012

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Total-P   | 101     | 98.8    | P/P        | 90 - 110       |

Reference Method: SM 2320 B-97

Run ID: A95130

Included Lab Sample IDs: 2128003, 2128006, 2128009, 2128010

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| Total Alkalinity | 102     | 104     | P/P        | 90 - 110       |

Reference Method: SM 4500 F-C-97

Run ID: A95130

Included Lab Sample IDs: 2128003, 2128006, 2128009, 2128010

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Fluoride  | 99.0    | 98.5    | P/P        | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A95132

Included Lab Sample IDs: 2128004, 2128007, 2128011, 2128012

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Ammonia-N | 101     | 102     | P/P        | 90 - 110       |
| Ammonia-N | 101     | 99.7    | P/P        | 90 - 110       |
| Ammonia-N | 102     | 102     | P/P        | 90 - 110       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A95141

Included Lab Sample IDs: 2128004

| 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: A95144

Included Lab Sample IDs: 2128004, 2128007, 2128011, 2128012

| Component         | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Kjeldahl Nitrogen | 93.5    | 93.0    | P/P        | 90 - 110       |
| Kjeldahl Nitrogen | 98.1    | 91.9    | P/P        | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A95146

Included Lab Sample IDs: 2128004, 2128011

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Total-P   | 101     | 100     | P/P        | 90 - 110       |
| Total-P   | 99.0    | 98.5    | P/P        | 90 - 110       |

Reference Method: EPA 8270E

Run ID: A95166

Included Lab Sample IDs: 2128042

| Component          | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------------|---------|---------|------------|----------------|
| Aldrin             | 106     |         | P          | 80 - 120       |
| Alpha-BHC          | 115     |         | P          | 80 - 120       |
| Alpha-Chlordane    | 107     |         | P          | 80 - 120       |
| Beta-BHC           | 103     |         | P          | 80 - 120       |
| Bifenthrin         | 112     |         | P          | 80 - 120       |
| Carbophenothion    | 102     |         | P          | 80 - 120       |
| Chlorothalonil     | 95.2    |         | P          | 80 - 120       |
| Cis-Nonachlor      | 105     |         | P          | 80 - 120       |
| Cypermethrin       | 114     |         | P          | 80 - 120       |
| DDD-p,p'           | 111     |         | P          | 80 - 120       |
| DDE-p,p'           | 109     |         | P          | 80 - 120       |
| DDT-p,p'           | 109     |         | P          | 80 - 120       |
| Delta-BHC          | 106     |         | P          | 80 - 120       |
| Dicofol            | 110     |         | P          | 80 - 120       |
| Dieldrin           | 110     |         | P          | 80 - 120       |
| Endosulfan I       | 105     |         | P          | 80 - 120       |
| Endosulfan II      | 112     |         | P          | 80 - 120       |
| Endosulfan Sulfate | 109     |         | P          | 80 - 120       |
| Endrin             | 107     |         | P          | 80 - 120       |
| Endrin Aldehyde    | 105     |         | P          | 80 - 120       |
| Endrin Ketone      | 113     |         | P          | 80 - 120       |
| Ethalfuralin       | 114     |         | P          | 80 - 120       |
| Gamma-BHC          | 111     |         | P          | 80 - 120       |
| Gamma-Chlordane    | 108     |         | P          | 80 - 120       |
| Heptachlor         | 110     |         | P          | 80 - 120       |
| Heptachlor Epoxide | 107     |         | P          | 80 - 120       |
| Hexachlorobenzene  | 111     |         | P          | 80 - 120       |
| Methoxychlor       | 110     |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A95166

Included Lab Sample IDs: 2128042

| Component       | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------------|---------|---------|------------|----------------|
| Mirex           | 111     |         | P          | 80 - 120       |
| Permethrin      | 107     |         | P          | 80 - 120       |
| Trans-Nonachlor | 106     |         | P          | 80 - 120       |
| Trifluralin     | 115     |         | P          | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A95182

Included Lab Sample IDs: 2128044, 2128045, 2128046, 2128047

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Aluminum  | 95.8    | 101     | P/P        | 90 - 110       |
| Antimony  | 102     | 104     | P/P        | 90 - 110       |
| Arsenic   | 105     | 106     | P/P        | 90 - 110       |
| Boron     | 95.6    | 98.0    | P/P        | 90 - 110       |
| Cadmium   | 103     | 103     | P/P        | 90 - 110       |
| Lead      | 101     | 102     | P/P        | 90 - 110       |
| Selenium  | 102     | 106     | P/P        | 90 - 110       |
| Silver    | 101     | 101     | P/P        | 90 - 110       |
| Thallium  | 98.2    | 98.9    | P/P        | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A95211

Included Lab Sample IDs: 2128007

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A95228

Included Lab Sample IDs: 2128044, 2128045, 2128046, 2128047

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Chromium  | 92.6    | 90.6    | P/P        | 90 - 110       |
| Copper    | 90.9    | 92.9    | P/P        | 90 - 110       |

Reference Method: EPA 8276

Run ID: A95238

Included Lab Sample IDs: 2128042

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Chlordane | 96.5    |         | P          | 80 - 120       |
| Toxaphene | 104     |         | P          | 80 - 120       |

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A95282

Included Lab Sample IDs: 2128003, 2128006, 2128009, 2128010

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

## Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A95307

Included Lab Sample IDs: 2128003, 2128006, 2128009, 2128010

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Sulfate   | 99.7    | 100     | P/P        | 90 - 110       |
| Sulfate   | 100     | 100     | P/P        | 90 - 110       |

Reference Method: EPA 8270E

Run ID: A95396

Included Lab Sample IDs: 2128043

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Acetochlor          | 104     |         | P          | 80 - 120       |
| Alachlor            | 103     |         | P          | 80 - 120       |
| Ametryn             | 99.6    |         | P          | 80 - 120       |
| Atrazine            | 102     |         | P          | 80 - 120       |
| Atrazine Desethyl   | 90.3    |         | P          | 80 - 120       |
| Azinphos Methyl     | 96.2    |         | P          | 80 - 120       |
| Bromacil            | 106     |         | P          | 80 - 120       |
| Butylate            | 96.9    |         | P          | 80 - 120       |
| Chlorpyrifos Ethyl  | 103     |         | P          | 80 - 120       |
| Chlorpyrifos Methyl | 97.5    |         | P          | 80 - 120       |
| Cyanazine           | 81.9    |         | P          | 80 - 120       |
| Demeton             | 101     |         | P          | 80 - 120       |
| Diazinon            | 103     |         | P          | 80 - 120       |
| Dimethenamid        | 105     |         | P          | 80 - 120       |
| Disulfoton          | 99.5    |         | P          | 80 - 120       |
| Dithiopyr           | 103     |         | P          | 80 - 120       |
| EPTC                | 101     |         | P          | 80 - 120       |
| Ethion              | 101     |         | P          | 80 - 120       |
| Ethoprop            | 100     |         | P          | 80 - 120       |
| Fenamiphos          | 96.8    |         | P          | 80 - 120       |
| Fipronil            | 105     |         | P          | 80 - 120       |
| Fipronil Desulfinyl | 103     |         | P          | 80 - 120       |
| Fipronil Sulfide    | 122*    |         | F          | 80 - 120       |
| Fipronil Sulfone    | 97.9    |         | P          | 80 - 120       |
| Fonofos             | 98.7    |         | P          | 80 - 120       |
| Hexazinone          | 98.3    |         | P          | 80 - 120       |
| Malathion           | 93.9    |         | P          | 80 - 120       |
| Metaxyl             | 106     |         | P          | 80 - 120       |
| Metolachlor         | 111     |         | P          | 80 - 120       |
| Metribuzin          | 72.3*   |         | F          | 80 - 120       |
| Mevinphos           | 103     |         | P          | 80 - 120       |
| Molinate            | 98.7    |         | P          | 80 - 120       |
| Norflurazon         | 105     |         | P          | 80 - 120       |
| Oxadiazon           | 106     |         | P          | 80 - 120       |
| Parathion Ethyl     | 100     |         | P          | 80 - 120       |
| Parathion Methyl    | 96.3    |         | P          | 80 - 120       |
| Pendimethalin       | 98.1    |         | P          | 80 - 120       |
| Phorate             | 105     |         | P          | 80 - 120       |
| Prodiamine          | 97.2    |         | P          | 80 - 120       |
| Prometon            | 101     |         | P          | 80 - 120       |
| Prometryn           | 95.7    |         | P          | 80 - 120       |
| Simazine            | 98.0    |         | P          | 80 - 120       |
| Tebuconazole        | 101     |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A95396

Included Lab Sample IDs: 2128043

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Terbufos       | 100     |         | P          | 80 - 120       |
| Terbuthylazine | 104     |         | P          | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A95467

Included Lab Sample IDs: 2128044

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Boron     | 97.1    | 97.9    | P/P        | 90 - 110       |

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A95490

Included Lab Sample IDs: 2128044, 2128045, 2128046, 2128047

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Nickel    | 95.8    | 98.4    | 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 | MS     |
|------------------------------|------------------------------------|----------------|------|---------------|------|-------|-----|-----------|--------|
|                              |                                    |                |      |               |      |       |     | SMP       |        |
| EPA 180.1 Rev. 2.0           | Turbidity                          |                |      |               |      |       |     | 5.28      |        |
|                              | Turbidity                          |                |      |               |      |       |     | 5.61      |        |
| EPA 200.7 Rev. 4.4           | Barium                             | 100            |      | 99.0          | 99.6 | 101   |     |           | 0.528  |
|                              | Calcium                            | 103            |      | 102           | 107  |       |     |           | 1.53   |
|                              | Iron                               | 102            |      | 99.8          | 106  |       |     |           | 1.69   |
|                              | Magnesium                          | 114            |      | 111           | 109  | 111   |     |           | 1.69   |
|                              | Potassium                          | 102            |      | 113           | 112  | 102   |     |           | 1.49   |
|                              | Sodium                             | 108            |      | 109           | 107  | 102   |     |           | 1.22   |
|                              | Zinc                               | 98.5           |      | 98.3          | 98.6 | 100   |     |           | 0.303  |
| EPA 200.8 Rev. 5.4           | Aluminum                           | 98.3           |      | 97.0          | 95.9 | 97.5  |     |           | 1.18   |
|                              | Antimony                           | 103            |      | 103           | 104  | 102   |     |           | 1.30   |
|                              | Arsenic                            | 103            |      | 98.9          | 102  | 100   |     |           | 3.14   |
|                              | Boron                              | 97.1           |      | 96.1          | 95.1 | 98.3  |     |           | 1.01   |
|                              | Cadmium                            | 97.9           |      | 98.3          | 99.6 | 99.3  |     |           | 1.24   |
|                              | Chromium                           | 98.2           |      | 98.9          | 94.6 | 91.3  |     |           | 4.43   |
|                              | Copper                             | 91.6           |      | 97.4          | 92.8 | 89.6  |     |           | 4.51   |
|                              | Lead                               | 99.8           |      | 101           | 101  | 98.9  |     |           | 0.369  |
|                              | Nickel                             | 91.3           |      | 89.4          | 87.8 | 88.6  |     |           | 0.953  |
|                              | Selenium                           | 97.1           |      | 90.5          | 94.9 | 94.6  |     |           | 4.81   |
|                              | Silver                             | 100            |      | 101           | 101  | 101   |     |           | 0.321  |
|                              | Thallium                           | 103            |      | 105           | 104  | 102   |     |           | 1.05   |
| EPA 300.0 Rev. 2.1           | Chloride                           | 105            |      | 103           | 105  |       |     | 0.272     |        |
|                              | Sulfate                            | 98.2           |      | 97.6          | 98.7 |       |     | 0.228     |        |
| EPA 350.1 Rev. 2.0           | Ammonia-N                          | 99.0           |      | 97.8          | 100  |       |     |           | 1.35   |
|                              | Ammonia-N                          | 99.9           |      | 104           | 106  |       |     |           | 1.39   |
| EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen                  | 94.2           |      | 90.3          | 96.0 |       |     |           | 4.81   |
|                              | Kjeldahl Nitrogen                  | 96.2           |      | 94.2          | 93.7 |       |     |           | 0.409  |
| EPA 353.2 Rev. 2.0           | NO <sub>2</sub> NO <sub>3</sub> -N | 100            |      | 98.8          | 97.8 |       |     |           | 0.905  |
|                              | NO <sub>2</sub> NO <sub>3</sub> -N | 100            |      | 100           | 100  |       |     |           | 0.499  |
|                              | NO <sub>2</sub> NO <sub>3</sub> -N | 98.5           |      | 103           | 104  |       |     |           | 0.766  |
| EPA 365.1 Rev. 2.0           | Total-P                            | 95.0           |      | 100           | 97.5 |       |     |           | 2.35   |
|                              | Total-P                            | 96.2           |      | 102           | 98.4 |       |     |           | 3.55   |
| EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P                      | 99.2           |      | 97.6          | 98.0 |       |     |           | 0.409  |
|                              | O-Phosphate-P                      | 99.6           |      | 102           | 102  |       |     |           | 0.196  |
| EPA 8270E                    | Acetochlor                         | 103            | 93.9 | 97.1          | 97.0 | 9.33  |     |           | 0.0689 |
|                              | Alachlor                           | 104            | 99.1 | 104           | 102  | 4.76  |     |           | 1.27   |
|                              | Aldrin                             | 65.6           | 60.7 | 67.8          | 54.8 | 7.74  |     |           | 21.2   |
|                              | Alpha-BHC                          | 101            | 105  | 103           | 97.9 | 3.83  |     |           | 5.24   |
|                              | Alpha-Chlordane                    | 93.0           | 93.7 | 90.9          | 78.6 | 0.701 |     |           | 14.5   |
|                              | Ametryn                            | 82.1           | 80.9 | 83.2          | 86.7 | 1.52  |     |           | 4.12   |
|                              | Atrazine                           | 95.1           | 93.0 |               |      | 2.14  |     |           | 2.72   |
|                              | Atrazine Desethyl                  | 87.0           | 78.1 | 72.0          | 98.2 | 10.8  |     |           | 16.7   |
|                              | Azinphos Methyl                    | 89.1           | 109  | 99.6          | 91.3 | 19.8  |     |           | 8.78   |
|                              | Beta-BHC                           | 105            | 109  | 117           | 99.5 | 3.25  |     |           | 16.2   |
|                              | Bifenthrin                         | 115            | 123  | 114           | 101  | 6.18  |     |           | 11.8   |
|                              | Bromacil                           | 80.2           | 87.8 |               |      | 9.06  |     |           | 3.98   |
|                              | Butylate                           | 62.9           | 69.6 | 58.3          | 49.9 | 10.1  |     |           | 15.5   |
|                              | Carbophenothion                    | 107            | 102  | 113           | 98.8 | 5.04  |     |           | 13.1   |
|                              | Chlorothalonil                     | 97.2           | 84.7 | 116           | 101  | 13.7  |     |           | 14.2   |
|                              | Chlorpyrifos Ethyl                 | 97.5           | 106  | 118           | 117  | 8.08  |     |           | 0.263  |
|                              | Chlorpyrifos Methyl                | 97.1           | 90.4 | 98.5          | 98.0 | 7.12  |     |           | 0.585  |
|                              | Cis-Nonachlor                      | 97.3           | 97.7 | 92.1          | 79.3 | 0.367 |     |           | 15.0   |
|                              | Cyanazine                          | 139            | 123  | 171           | 170  | 12.4  |     |           | 0.951  |
|                              | Cypermethrin                       | 104            | 110  | 117           | 102  | 5.31  |     |           | 14.0   |

## Quality Assurance Report Summary

| Ref. Method | Analyte             | LCS % Recovery |      | MS % Recovery |      | LCS    | Precision<br>SMP | MS    |
|-------------|---------------------|----------------|------|---------------|------|--------|------------------|-------|
|             |                     |                |      |               |      |        |                  |       |
| EPA 8270E   | DDD-p,p'            | 101            | 99.1 | 96.3          | 85.0 | 2.07   |                  | 12.4  |
|             | DDE-p,p'            | 92.2           | 93.7 | 93.3          | 79.0 | 1.60   |                  | 16.6  |
|             | DDT-p,p'            | 91.7           | 95.9 | 91.3          | 88.1 | 4.41   |                  | 3.58  |
|             | Delta-BHC           | 111            | 108  | 127           | 110  | 1.92   |                  | 14.8  |
|             | Demeton             | 174            | 159  | 188           | 180  | 9.41   |                  | 4.68  |
|             | Diazinon            | 97.6           | 84.9 | 96.0          | 99.0 | 13.9   |                  | 3.12  |
|             | Dicofol             | 104            | 114  | 109           | 93.5 | 9.19   |                  | 15.6  |
|             | Dieldrin            | 98.1           | 98.7 | 91.7          | 71.3 | 0.614  |                  | 16.6  |
|             | Dimethenamid        | 89.4           | 83.0 | 95.2          | 89.9 | 7.45   |                  | 5.64  |
|             | Disulfoton          | 94.3           | 85.2 | 97.5          | 93.7 | 10.2   |                  | 3.99  |
|             | Dithiopyr           | 93.0           | 87.2 | 91.1          | 91.0 | 6.47   |                  | 0.118 |
|             | Endosulfan I        | 99.5           | 99.7 | 100           | 86.9 | 0.160  |                  | 14.1  |
|             | Endosulfan II       | 110            | 112  | 103           | 93.0 | 1.55   |                  | 10.6  |
|             | Endosulfan Sulfate  | 103            | 103  | 92.8          | 84.6 | 0.236  |                  | 9.21  |
|             | Endrin              | 103            | 106  | 105           | 90.1 | 2.61   |                  | 15.0  |
|             | Endrin Aldehyde     | 96.7           | 95.6 | 85.8          | 76.4 | 1.09   |                  | 11.6  |
|             | Endrin Ketone       | 105            | 104  | 95.3          | 87.0 | 0.286  |                  | 9.04  |
|             | EPTC                | 63.4           | 59.7 | 53.0          | 47.9 | 5.91   |                  | 10.1  |
|             | Ethalfuralin        | 98.2           | 99.8 | 99.2          | 82.4 | 1.60   |                  | 18.5  |
|             | Ethion              | 56.5           | 53.4 | 90.0          | 73.4 | 5.73   |                  | 20.3  |
|             | Ethoprop            | 94.5           | 87.1 | 102           | 96.8 | 8.11   |                  | 5.62  |
|             | Fenamiphos          | 86.5           | 87.9 | 85.9          | 89.4 | 1.60   |                  | 3.96  |
|             | Fipronil            | 91.5           | 84.7 | 101           | 98.7 | 7.80   |                  | 1.87  |
|             | Fipronil Desulfinyl | 68.1           | 60.4 | 70.0          | 68.4 | 12.0   |                  | 2.36  |
|             | Fipronil Sulfide    | 105            | 85.0 | 101           | 100  | 21.0   |                  | 0.444 |
|             | Fipronil Sulfone    | 90.1           | 82.8 |               |      | 8.52   |                  | 4.88  |
|             | Fonofos             | 95.7           | 90.0 | 105           | 102  | 6.13   |                  | 2.53  |
|             | Gamma-BHC           | 111            | 112  | 114           | 99.3 | 1.45   |                  | 14.2  |
|             | Gamma-Chlordane     | 90.1           | 92.4 | 89.1          | 76.6 | 2.48   |                  | 15.1  |
|             | Heptachlor          | 90.5           | 91.3 | 84.1          | 73.8 | 0.954  |                  | 13.0  |
|             | Heptachlor Epoxide  | 96.6           | 96.5 | 94.2          | 82.3 | 0.154  |                  | 13.4  |
|             | Hexachlorobenzene   | 88.7           | 93.5 | 90.9          | 79.6 | 5.24   |                  | 13.2  |
|             | Hexazinone          | 111            | 102  | 121           | 121  | 8.33   |                  | 0.412 |
|             | Malathion           | 92.6           | 87.1 | 103           | 101  | 6.14   |                  | 2.13  |
|             | Metalaxyl           | 105            | 96.8 |               |      | 7.79   |                  | 1.54  |
|             | Methoxychlor        | 108            | 111  | 115           | 101  | 3.34   |                  | 12.9  |
|             | Metolachlor         | 107            | 94.4 |               |      | 12.5   |                  | 2.24  |
|             | Metribuzin          | 177            | 149  |               |      | 17.0   |                  | 20.4  |
|             | Mevinphos           | 90.7           | 96.5 | 104           | 93.1 | 6.19   |                  | 11.5  |
|             | Mirex               | 85.0           | 85.0 | 85.4          | 74.6 | 0.0463 |                  | 13.5  |
|             | Molinate            | 65.9           | 70.8 | 70.3          | 63.2 | 7.20   |                  | 10.7  |
|             | Norflurazon         | 103            | 107  | 111           | 99.6 | 3.98   |                  | 9.03  |
|             | Oxadiazon           | 76.2           | 84.1 | 88.7          | 88.0 | 9.83   |                  | 0.791 |
|             | Parathion Ethyl     | 89.3           | 106  | 131           | 128  | 17.3   |                  | 2.35  |
|             | Parathion Methyl    | 90.7           | 110  | 121           | 124  | 19.0   |                  | 2.24  |
|             | Pendimethalin       | 86.1           | 98.3 | 123           | 129  | 13.2   |                  | 4.42  |
|             | Permethrin          | 100            | 106  | 104           | 92.4 | 5.16   |                  | 11.5  |
|             | Phorate             | 82.7           | 67.4 | 81.8          | 82.7 | 20.3   |                  | 1.11  |
|             | Prodiamine          | 55.5           | 61.4 | 62.2          | 61.6 | 10.2   |                  | 0.883 |
|             | Prometon            | 80.5           | 92.3 | 106           | 127  | 13.7   |                  | 17.7  |
|             | Prometryn           | 83.5           | 93.8 | 92.4          | 94.9 | 11.6   |                  | 2.67  |
|             | Simazine            | 96.7           | 104  | 129           | 133  | 6.87   |                  | 3.49  |
|             | Tebuconazole        | 52.8           | 52.3 | 76.6          | 61.8 | 0.945  |                  | 17.8  |
|             | Terbufos            | 96.3           | 102  | 104           | 109  | 5.58   |                  | 4.13  |

## Quality Assurance Report Summary

| Ref. Method    | Analyte             | LCS % Recovery |      | MS % Recovery |      | LCS  | Precision<br>SMP | MS    |
|----------------|---------------------|----------------|------|---------------|------|------|------------------|-------|
|                |                     |                |      |               |      |      |                  |       |
| EPA 8270E      | Terbutylazine       | 80.1           | 88.4 | 91.5          | 89.9 | 9.78 |                  | 1.69  |
|                | Trans-Nonachlor     | 92.7           | 94.6 | 89.9          | 77.4 | 1.96 |                  | 14.8  |
|                | Trifluralin         | 97.7           | 102  | 99.6          | 85.4 | 3.84 |                  | 15.3  |
| EPA 8276       | Chlordane           | 91.1           | 94.1 | 127           | 73.4 | 3.15 |                  | 53.6  |
|                | Toxaphene           | 67.5           | 61.4 | 68.0          | 66.4 | 9.53 |                  | 2.40  |
| EPA 8321B      | 2,4-D               | 147            |      | 141           | 152  |      |                  | 6.65  |
|                | 3-Hydroxycarbofuran | 92.9           |      | 89.8          | 99.4 |      |                  | 10.1  |
|                | Acesulfame K        | 64.0           |      | 86.6          | 82.5 |      |                  | 4.81  |
|                | Acetaminophen       | 94.0           |      | 95.1          | 85.5 |      |                  | 10.6  |
|                | Acetamiprid         | 98.8           |      | 110           | 120  |      |                  | 8.74  |
|                | Afidopyropen        | 101            |      | 116           | 122  |      |                  | 4.64  |
|                | Aldicarb            | 86.3           |      | 59.7          | 73.4 |      |                  | 20.5  |
|                | Aldicarb Sulfone    | 92.4           |      | 96.7          | 116  |      |                  | 18.1  |
|                | Aldicarb Sulfoxide  | 82.2           |      | 37.9          | 40.5 |      |                  | 6.79  |
|                | AMPA                | 116            |      | 82.9          | 80.2 |      |                  | 3.39  |
|                | Bentazon            | 127            |      |               |      |      |                  | 1.47  |
|                | Benzovindiflupyr    | 99.4           |      | 111           | 114  |      |                  | 2.69  |
|                | Carbamazepine       | 114            |      | 121           | 117  |      |                  | 3.36  |
|                | Carbaryl            | 71.9           |      | 77.9          | 73.8 |      |                  | 5.36  |
|                | Carbofuran          | 85.0           |      | 73.4          | 69.0 |      |                  | 6.17  |
|                | Clothianidin        | 102            |      | 111           | 111  |      |                  | 0.124 |
|                | Dinotefuran         | 91.2           |      | 109           | 115  |      |                  | 5.29  |
|                | Diuron              | 107            |      | 113           | 110  |      |                  | 1.68  |
|                | Endothall           | 86.6           |      | 115           | 101  |      |                  | 12.9  |
|                | Fenuron             | 106            |      | 116           | 101  |      |                  | 14.6  |
|                | Fluridone           | 103            |      | 104           | 94.7 |      |                  | 5.60  |
|                | Glufosinate         | 88.6           |      | 80.0          | 75.5 |      |                  | 5.79  |
|                | Glyphosate          | 86.3           |      | 84.8          | 85.0 |      |                  | 0.133 |
|                | Hydrocodone         | 99.1           |      | 110           | 111  |      |                  | 1.23  |
|                | Ibuprofen           | 92.7           |      | 98.4          | 92.6 |      |                  | 6.09  |
|                | Imazapyr            | 101            |      |               |      |      |                  | 1.59  |
|                | Imidacloprid        | 108            |      | 171           | 158  |      |                  | 6.50  |
|                | Linuron             | 89.0           |      | 79.3          | 77.8 |      |                  | 2.00  |
|                | Mandestrobin        | 111            |      | 124           | 117  |      |                  | 5.93  |
|                | MCPP                | 159            |      | 149           | 153  |      |                  | 2.87  |
|                | Methiocarb          | 82.8           |      | 80.2          | 74.3 |      |                  | 7.71  |
|                | Methomyl            | 79.3           |      | 64.5          | 77.7 |      |                  | 18.5  |
|                | Naproxen            | 114            |      | 91.5          | 91.2 |      |                  | 0.384 |
|                | Oxamyl              | 97.0           |      | 86.9          | 91.3 |      |                  | 4.96  |
|                | Primidone           | 102            |      | 98.5          | 116  |      |                  | 15.9  |
|                | Propoxur            | 83.3           |      | 69.7          | 72.7 |      |                  | 4.18  |
|                | Pyraclostrobin      | 95.2           |      | 107           | 112  |      |                  | 5.10  |
|                | Sucralose           | 112            |      | 30.6          | 26.5 |      |                  | 14.5  |
|                | Thiamethoxam        | 105            |      | 158           | 162  |      |                  | 2.15  |
|                | Tolfenpyrad         | 58.7           |      | 74.6          | 83.6 |      |                  | 11.4  |
|                | Triclopyr           | 139            |      | 111           | 118  |      |                  | 6.09  |
| SM 2120 B      | Color (true)        | 101            |      |               |      |      | 10.7             |       |
| SM 2320 B-97   | Total Alkalinity    | 105            |      |               |      |      | 0.360            |       |
| SM 2540 C-97   | TDS                 |                |      |               |      |      | 8.00             |       |
| SM 4500 F-C-97 | Fluoride            | 94.8           |      | 95.3          | 94.8 |      |                  | 0.477 |
| SM 5310 B-00   | Organic Carbon      | 99.1           |      | 100           | 98.1 |      |                  | 1.97  |

## Reference Method Descriptions

| Method / DoH Cert #                   | Description                                                                                                               | Associated Samples                 |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| EPA 180.1 Rev. 2.0 / E31780           | Turbidity in aqueous matrices                                                                                             | 2128003, 2128006, 2128009, 2128010 |
| EPA 200.7 Rev. 4.4 / E31780           | Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects | 2128044, 2128045, 2128046, 2128047 |
| EPA 200.8 Rev. 5.4 / E31780           | Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    | 2128044, 2128045, 2128046, 2128047 |
| EPA 300.0 Rev. 2.1 / E31780           | Chloride in aqueous matrices                                                                                              | 2128003, 2128006, 2128009, 2128010 |
| EPA 300.0 Rev. 2.1 / E31780           | Sulfate in aqueous matrices                                                                                               | 2128003, 2128006, 2128009, 2128010 |
| EPA 350.1 Rev. 2.0 / E31780           | Ammonia in aqueous matrices as mg N/L                                                                                     | 2128004, 2128007, 2128011, 2128012 |
| EPA 351.2 Rev. 2.0 / E31780           | Total Kjeldahl Nitrogen in aqueous matrices                                                                               | 2128004, 2128007, 2128011, 2128012 |
| EPA 353.2 Rev. 2.0 / E31780           | Nitrite/Nitrate in aqueous matrices as mg N/L                                                                             | 2128004, 2128007, 2128011, 2128012 |
| EPA 365.1 Rev. 2.0 / E31780           | Total Phosphorus in aqueous matrices as mg P/L                                                                            | 2128004, 2128007, 2128011, 2128012 |
| EPA 365.1 Rev. 2.0 dissolved / E31780 | Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                                                       | 2128005, 2128008, 2128013, 2128014 |
| EPA 8270E / E31780                    | Organochlorine pesticides in water matrices by GC/MS-SIM                                                                  | 2128042                            |
| EPA 8270E / E31780                    | Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS                                                    | 2128043                            |
| EPA 8276 / E31780                     | Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization                                    | 2128042                            |
| EPA 8321B / E31780                    | Carbamates in water matrices by HPLC/MS/MS                                                                                | 2128030                            |
| EPA 8321B / E31780                    | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                               | 2128031, 2128032                   |
| SM 2120 B / E31780                    | True Color measured at 450 nm                                                                                             | 2128003, 2128006, 2128009, 2128010 |
| SM 2320 B-97 / E31780                 | Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                                                                 | 2128003, 2128006, 2128009, 2128010 |
| SM 2540 C-97 / E31780                 | Total Dissolved Solids in aqueous matrices                                                                                | 2128003, 2128006, 2128009, 2128010 |
| SM 2540 D-97 / E31780                 | Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                                            | 2128003, 2128006, 2128009, 2128010 |
| SM 4500 F-C-97 / E31780               | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                       | 2128003, 2128006, 2128009, 2128010 |
| SM 5310 B-00 / E31780                 | Nonpurgeable Organic Carbon in aqueous matrices                                                                           | 2128004, 2128007, 2128011, 2128012 |

## 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 | 10/15/2019    |                  |                  | 10/15/2019 16:32   | Samantha Davila       | 2128003, 2128006, 2128009, 2128010 |
| EPA 200.7 Rev. 4.4 | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/17/2019 16:15   | Alexander Thompson    | 2128044                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/17/2019 16:23   | Alexander Thompson    | 2128044                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/17/2019 16:29   | Alexander Thompson    | 2128045                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/17/2019 16:53   | Alexander Thompson    | 2128046                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/17/2019 16:59   | Alexander Thompson    | 2128047                            |
| EPA 200.8 Rev. 5.4 | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/23/2019 07:34   | Robert K Palmer       | 2128044                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/23/2019 07:43   | Robert K Palmer       | 2128045                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/23/2019 07:53   | Robert K Palmer       | 2128046                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/23/2019 08:03   | Robert K Palmer       | 2128047                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/24/2019 22:40   | Robert K Palmer       | 2128044                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/24/2019 22:46   | Robert K Palmer       | 2128045                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/24/2019 22:51   | Robert K Palmer       | 2128046                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 10/24/2019 22:57   | Robert K Palmer       | 2128047                            |
|                    | 10/15/2019    | 10/16/2019 16:55 | Elliott D. Healy | 11/04/2019 17:16   | Robert K Palmer       | 2128044                            |
|                    | 10/15/2019    | 10/28/2019 17:00 | Elliott D. Healy | 11/04/2019 21:24   | Justin Cutchin        | 2128044                            |
|                    | 10/15/2019    | 10/28/2019 17:00 | Elliott D. Healy | 11/04/2019 21:33   | Justin Cutchin        | 2128045                            |
|                    | 10/15/2019    | 10/28/2019 17:00 | Elliott D. Healy | 11/04/2019 21:43   | Justin Cutchin        | 2128046                            |
|                    | 10/15/2019    | 10/28/2019 17:00 | Elliott D. Healy | 11/04/2019 21:52   | Justin Cutchin        | 2128047                            |
| EPA 300.0 Rev. 2.1 | 10/15/2019    |                  |                  | 10/26/2019 08:16   | Julia Storbeck        | 2128006                            |
|                    | 10/15/2019    |                  |                  | 10/26/2019 10:29   | Julia Storbeck        | 2128003                            |
|                    | 10/15/2019    |                  |                  | 10/26/2019 10:42   | Julia Storbeck        | 2128009                            |
|                    | 10/15/2019    |                  |                  | 10/26/2019 10:54   | Julia Storbeck        | 2128010                            |
|                    | 10/15/2019    |                  |                  | 10/30/2019 17:17   | Julia Storbeck        | 2128006                            |
|                    | 10/15/2019    |                  |                  | 10/30/2019 19:18   | Julia Storbeck        | 2128003                            |
|                    | 10/15/2019    |                  |                  | 10/30/2019 19:30   | Julia Storbeck        | 2128009                            |
|                    | 10/15/2019    |                  |                  | 10/30/2019 19:42   | Julia Storbeck        | 2128010                            |
| EPA 350.1 Rev. 2.0 | 10/15/2019    |                  |                  | 10/21/2019 12:14   | Ping Hua              | 2128012                            |
|                    | 10/15/2019    |                  |                  | 10/21/2019 12:33   | Ping Hua              | 2128004                            |
|                    | 10/15/2019    |                  |                  | 10/21/2019 14:25   | Ping Hua              | 2128007                            |
|                    | 10/15/2019    |                  |                  | 10/21/2019 14:27   | Ping Hua              | 2128011                            |
| EPA 351.2 Rev. 2.0 | 10/15/2019    | 10/17/2019 11:10 | Sima Feizi       | 10/18/2019 16:41   | Jhamieka S. Greenwood | 2128004                            |
|                    | 10/15/2019    | 10/17/2019 12:22 | Sima Feizi       | 10/18/2019 17:59   | Jhamieka S. Greenwood | 2128007                            |
|                    | 10/15/2019    | 10/17/2019 12:22 | Sima Feizi       | 10/18/2019 18:01   | Jhamieka S. Greenwood | 2128011                            |
|                    | 10/15/2019    | 10/17/2019 12:22 | Sima Feizi       | 10/18/2019 18:02   | Jhamieka S. Greenwood | 2128012                            |
| EPA 353.2 Rev. 2.0 | 10/15/2019    |                  |                  | 10/18/2019 11:15   | Beverly Y. Sanders    | 2128011                            |
|                    | 10/15/2019    |                  |                  | 10/18/2019 11:25   | Beverly Y. Sanders    | 2128012                            |
|                    | 10/15/2019    |                  |                  | 10/22/2019 13:30   | Lauren Lees           | 2128004                            |
|                    | 10/15/2019    |                  |                  | 10/24/2019 10:24   | Beverly Y. Sanders    | 2128007                            |
| EPA 365.1 Rev. 2.0 | 10/15/2019    | 10/18/2019 15:10 | Lipi Saha        | 10/21/2019 11:53   | Beverly Y. Sanders    | 2128007                            |

## 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           | 10/15/2019    | 10/18/2019 15:10 | Lipi Saha         | 10/21/2019 11:55   | Beverly Y. Sanders | 2128012                            |
|                              | 10/15/2019    | 10/18/2019 15:10 | Lipi Saha         | 10/22/2019 13:13   | Beverly Y. Sanders | 2128011                            |
|                              | 10/15/2019    | 10/18/2019 15:10 | Lipi Saha         | 10/22/2019 13:41   | Beverly Y. Sanders | 2128004                            |
| EPA 365.1 Rev. 2.0 dissolved | 10/15/2019    |                  |                   | 10/15/2019 15:43   | Virginia P. Brown  | 2128005                            |
|                              | 10/15/2019    |                  |                   | 10/15/2019 16:05   | Virginia P. Brown  | 2128013                            |
|                              | 10/15/2019    |                  |                   | 10/15/2019 16:06   | Virginia P. Brown  | 2128014                            |
|                              | 10/15/2019    |                  |                   | 10/15/2019 16:17   | Virginia P. Brown  | 2128008                            |
|                              | 10/15/2019    | 10/18/2019 09:00 | Julie Wi          | 10/23/2019 01:16   | Vandana T. Nagar   | 2128043                            |
| EPA 8270E                    | 10/15/2019    | 10/18/2019 10:00 | Fe-Val Siddell    | 10/23/2019 03:20   | Arthur Maknenko    | 2128042                            |
| EPA 8276                     | 10/15/2019    | 10/18/2019 10:00 | Fe-Val Siddell    | 10/22/2019 09:42   | Michael Poppell    | 2128042                            |
| EPA 8321B                    | 10/15/2019    | 10/15/2019 14:15 | Hoor Shaik        | 10/17/2019 19:33   | Juyoung Kim        | 2128030                            |
|                              | 10/15/2019    | 10/15/2019 16:00 | Mohammad Ghaffari | 10/15/2019 20:17   | Mohammad Ghaffari  | 2128031                            |
|                              | 10/15/2019    | 10/15/2019 16:00 | Mohammad Ghaffari | 10/15/2019 20:31   | Mohammad Ghaffari  | 2128032                            |
|                              | 10/15/2019    | 10/15/2019 16:00 | Mohammad Ghaffari | 10/16/2019 00:42   | Mohammad Ghaffari  | 2128032                            |
|                              | 10/15/2019    | 10/15/2019 16:00 | Mohammad Ghaffari | 10/16/2019 11:41   | Mohammad Ghaffari  | 2128031                            |
|                              | 10/15/2019    | 10/15/2019 16:00 | Mohammad Ghaffari | 10/16/2019 15:21   | Mohammad Ghaffari  | 2128031                            |
|                              | 10/15/2019    | 10/15/2019 16:00 | Mohammad Ghaffari | 10/16/2019 15:34   | Mohammad Ghaffari  | 2128032                            |
|                              | 10/15/2019    | 10/17/2019 10:00 | Hoor Shaik        | 10/18/2019 11:07   | Juyoung Kim        | 2128031                            |
|                              | 10/15/2019    | 10/17/2019 10:00 | Hoor Shaik        | 10/18/2019 11:42   | Juyoung Kim        | 2128032                            |
| SM 2120 B                    | 10/15/2019    |                  |                   | 10/15/2019 18:09   | Madeline Funaro    | 2128003, 2128006                   |
|                              | 10/15/2019    |                  |                   | 10/15/2019 18:10   | Madeline Funaro    | 2128009                            |
|                              | 10/15/2019    |                  |                   | 10/15/2019 18:11   | Madeline Funaro    | 2128010                            |
| SM 2320 B-97                 | 10/15/2019    |                  |                   | 10/19/2019 09:57   | Dale L. Simmons    | 2128006                            |
|                              | 10/15/2019    |                  |                   | 10/19/2019 10:09   | Dale L. Simmons    | 2128009                            |
|                              | 10/15/2019    |                  |                   | 10/19/2019 10:21   | Dale L. Simmons    | 2128010                            |
|                              | 10/15/2019    |                  |                   | 10/19/2019 11:40   | Dale L. Simmons    | 2128003                            |
| SM 2540 C-97                 | 10/15/2019    |                  |                   | 10/18/2019 15:45   | Yijie Li           | 2128003, 2128006, 2128009, 2128010 |
| SM 2540 D-97                 | 10/15/2019    |                  |                   | 10/18/2019 15:45   | Yijie Li           | 2128003, 2128006, 2128009, 2128010 |
| SM 4500 F-C-97               | 10/15/2019    |                  |                   | 10/19/2019 09:57   | Dale L. Simmons    | 2128006                            |
|                              | 10/15/2019    |                  |                   | 10/19/2019 10:09   | Dale L. Simmons    | 2128009                            |
|                              | 10/15/2019    |                  |                   | 10/19/2019 10:21   | Dale L. Simmons    | 2128010                            |
|                              | 10/15/2019    |                  |                   | 10/19/2019 11:40   | Dale L. Simmons    | 2128003                            |
| SM 5310 B-00                 | 10/15/2019    |                  |                   | 10/18/2019 21:09   | Madeline Funaro    | 2128007                            |
|                              | 10/15/2019    |                  |                   | 10/18/2019 23:43   | Madeline Funaro    | 2128004                            |
|                              | 10/15/2019    |                  |                   | 10/18/2019 23:55   | Madeline Funaro    | 2128011                            |
|                              | 10/15/2019    |                  |                   | 10/19/2019 00:08   | Madeline Funaro    | 2128012                            |