

## Chemical Analysis Report

**SW-DIST-2018-10-25-01**

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

Event Description: **Wares, Wares, Mill, Gap, & Nonsense**  
Request ID: **RQ-2018-10-22-02**  
Customer: **SW-DIST**  
Project ID: **SMP**

Send Reports to:  
FL Dept. of Environmental Protection  
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13051 N. Telecom Parkway  
Temple Terrace, FL 33637-0926  
Attn: Ben Paswater

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 16-NOV-2018 16:28

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: Nutrients and Pesticides.

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

**Sample Location: GAP CREEK @ 45th ST**

**Collection Date/Time: 10/24/2018 12:00**

**Field ID: G2SW0030**

**Matrix: W-SURF-FRH**

| Sample ID | Ref. Method                  | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|--------|------|------------|----------|----------|
| 2036135   | EPA 180.1 Rev. 2.0           | Turbidity         | 4.5    |      | NTU        | P353684  |          |
|           | EPA 300.0 Rev. 2.1           | Chloride          | 50     |      | mg Cl/L    | P353979  |          |
|           |                              | Sulfate           | 95     |      | mg SO4/L   | P353981  |          |
|           |                              | Color (true)      | 54     |      | PCU        | P353678  |          |
|           | SM 2320 B-97                 | Total Alkalinity  | 190    |      | mg CaCO3/L | P353899  |          |
|           | SM 2540 C-97                 | TDS               | 433    |      | mg/L       | P354163  |          |
|           | SM 2540 D-97                 | TSS               | 3      | I    | mg/L       | P354032  |          |
|           | SM 4500 F-C-97               | Fluoride          | 0.68   |      | mg F/L     | P353904  |          |
| 2036137   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.039  |      | mg N/L     | P354194  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.91   |      | mg N/L     | P354147  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.21   |      | mg N/L     | P353967  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.47   |      | mg P/L     | P354028  |          |
|           | SM 5310 B-00                 | Organic Carbon    | 14     |      | mg C/L     | P354198  |          |
| 2036139   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.34   |      | mg P/L     | P353692  |          |

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

**Sample Location: WARES CRK @ 36th AVE**

**Collection Date/Time: 10/24/2018 11:17**

**Field ID: G2SW0031**

**Matrix: W-SURF-FRH**

| Sample ID | Ref. Method                  | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|--------|------|------------|----------|----------|
| 2036136   | EPA 180.1 Rev. 2.0           | Turbidity         | 3.0    |      | NTU        | P353684  |          |
|           | EPA 300.0 Rev. 2.1           | Chloride          | 52     |      | mg Cl/L    | P353979  |          |
|           |                              | Sulfate           | 110    |      | mg SO4/L   | P353981  |          |
|           | SM 2120 B                    | Color (true)      | 25     |      | PCU        | P353678  |          |
|           | SM 2320 B-97                 | Total Alkalinity  | 194    |      | mg CaCO3/L | P353899  |          |
|           | SM 2540 C-97                 | TDS               | 428    |      | mg/L       | P354163  |          |
|           | SM 2540 D-97                 | TSS               | 4      | I    | mg/L       | P354032  |          |
|           | SM 4500 F-C-97               | Fluoride          | 0.57   |      | mg F/L     | P353904  |          |
| 2036138   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.014  |      | mg N/L     | P354194  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.55   |      | mg N/L     | P354148  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.17   |      | mg N/L     | P353967  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.13   |      | mg P/L     | P354028  |          |
|           | SM 5310 B-00                 | Organic Carbon    | 7.5    |      | mg C/L     | P354198  |          |
| 2036140   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.10   |      | mg P/L     | P353695  |          |

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

**Sample Location: WARES CRK @ 9th AVE**

**Collection Date/Time: 10/24/2018 10:20**

**Field ID: G2SW0029**

**Matrix: W-SURF-SLT**

| Sample ID | Ref. Method                     | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|---------------------------------|-------------------|--------|------|------------|----------|----------|
| 2036141   | EPA 180.1 Rev. 2.0              | Turbidity         | 3.9    |      | NTU        | P353684  |          |
|           | SM 2320 B-97                    | Total Alkalinity  | 148    |      | mg CaCO3/L | P354098  |          |
|           | SM 2540 D-97                    | TSS               | 6      | I    | mg/L       | P354035  |          |
|           | SM 4500 F-C-97                  | Fluoride          | 0.76   |      | mg F/L     | P354101  |          |
| 2036143   | EPA 350.1 Rev. 2.0              | Ammonia-N         | 0.088  |      | mg N/L     | P354270  |          |
|           | EPA 351.2 Rev. 2.0              | Kjeldahl Nitrogen | 0.93   |      | mg N/L     | P354058  |          |
|           | EPA 353.2 Rev. 2.0              | NO2NO3-N          | 0.048  |      | mg N/L     | P353830  |          |
|           | EPA 365.1 Rev. 2.0              | Total-P           | 0.21   |      | mg P/L     | P354027  |          |
|           | SM 5310 B-00                    | Organic Carbon    | 7.6    |      | mg C/L     | P354155  |          |
| 2036145   | EPA 365.1 Rev. 2.0<br>dissolved | O-Phosphate-P     | 0.12   |      | mg P/L     | P353694  |          |

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: MILL CREEK @ UPPER MANATEE RVR RD**

**Collection Date/Time: 10/24/2018 13:40**

**Field ID: G2SW0040**

**Matrix: W-SURF-SLT**

| Sample ID | Ref. Method                     | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|---------------------------------|-------------------|--------|------|------------|----------|----------|
| 2036142   | EPA 180.1 Rev. 2.0              | Turbidity         | 5.0    | A    | NTU        | P353684  |          |
|           | SM 2320 B-97                    | Total Alkalinity  | 67     |      | mg CaCO3/L | P353899  |          |
|           | SM 2540 D-97                    | TSS               | 7      | I    | mg/L       | P354034  |          |
|           | SM 4500 F-C-97                  | Fluoride          | 0.35   |      | mg F/L     | P353904  |          |
| 2036144   | EPA 350.1 Rev. 2.0              | Ammonia-N         | 0.008  |      | mg N/L     | P354270  |          |
|           | EPA 351.2 Rev. 2.0              | Kjeldahl Nitrogen | 0.97   |      | mg N/L     | P354146  |          |
|           | EPA 353.2 Rev. 2.0              | NO2NO3-N          | 0.004  | U    | mg N/L     | P353831  |          |
|           | EPA 365.1 Rev. 2.0              | Total-P           | 0.38   |      | mg P/L     | P354027  |          |
|           | SM 5310 B-00                    | Organic Carbon    | 15     |      | mg C/L     | P354198  |          |
| 2036146   | EPA 365.1 Rev. 2.0<br>dissolved | O-Phosphate-P     | 0.27   |      | mg P/L     | P353694  |          |

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: MILL CREEK @ UPPER MANATEE RVR RD

Collection Date/Time: 10/24/2018 13:40

Field ID: G2SW0040

Matrix: W-SURF-SLT

| Sample ID | Ref. Method | Component        | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|---------|------|-------|----------|----------|
| 2036168   | EPA 8321B   | 2,4-D            | 0.0084  |      | ug/L  | P353651  |          |
|           |             | Bentazon         | 0.026   |      | ug/L  | P353651  |          |
|           |             | MCP              | 0.0020  | U    | ug/L  | P353651  |          |
|           |             | Triclopyr**      | 0.0040  | U    | ug/L  | P353651  |          |
|           |             | Imidacloprid     | 0.023   |      | ug/L  | P353651  |          |
|           |             | Diuron           | 0.013   |      | ug/L  | P353651  |          |
|           |             | Pyraclostrobin** | 0.0020  | U    | ug/L  | P353651  |          |
|           |             | Primidone**      | 0.0040  | U    | ug/L  | P353651  |          |
|           |             | Linuron          | 0.0040  | U    | ug/L  | P353651  |          |
|           |             | Acetaminophen**  | 0.0080  | U    | ug/L  | P353651  |          |
|           |             | Fenuron          | 0.016   | U    | ug/L  | P353651  |          |
|           |             | Imazapyr**       | 0.16    |      | ug/L  | P353651  |          |
|           |             | Carbamazepine**  | 8.0E-04 | U    | ug/L  | P353651  |          |
|           |             | Fluridone**      | 0.027   |      | ug/L  | P353651  |          |
|           |             | Hydrocodone**    | 8.0E-04 | U    | ug/L  | P353651  |          |
|           |             | Naproxen**       | 0.0080  | U    | ug/L  | P353651  |          |
|           |             | Ibuprofen**      | 0.020   | U    | ug/L  | P353651  |          |
|           |             | Sucralose**      | 0.65    |      | ug/L  | P353656  |          |
|           |             | Acesulfame K**   | 0.11    | I    | ug/L  | P353656  |          |

Sample Location: NONSENSE @ TARA PRESERVE

Collection Date/Time: 10/24/2018 13:10

Field ID: G2SW0015

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|---------|------|-------|----------|----------|
| 2036169   | EPA 8321B   | 2,4-D            | 0.0020  | U    | ug/L  | P353651  |          |
|           |             | Bentazon         | 0.0094  |      | ug/L  | P353651  |          |
|           |             | MCP              | 0.0020  | U    | ug/L  | P353651  |          |
|           |             | Triclopyr**      | 0.0040  | U    | ug/L  | P353651  |          |
|           |             | Imidacloprid     | 0.013   |      | ug/L  | P353651  |          |
|           |             | Diuron           | 0.019   |      | ug/L  | P353651  |          |
|           |             | Pyraclostrobin** | 0.0020  | U    | ug/L  | P353651  |          |
|           |             | Primidone**      | 0.0040  | U    | ug/L  | P353651  |          |
|           |             | Linuron          | 0.0040  | U    | ug/L  | P353651  |          |
|           |             | Acetaminophen**  | 0.0080  | U    | ug/L  | P353651  |          |
|           |             | Fenuron          | 0.016   | U    | ug/L  | P353651  |          |
|           |             | Imazapyr**       | 0.32    |      | ug/L  | P353651  |          |
|           |             | Carbamazepine**  | 8.0E-04 | U    | ug/L  | P353651  |          |
|           |             | Fluridone**      | 0.039   |      | ug/L  | P353651  |          |
|           |             | Hydrocodone**    | 8.0E-04 | U    | ug/L  | P353651  |          |
|           |             | Naproxen**       | 0.0080  | U    | ug/L  | P353651  |          |
|           |             | Ibuprofen**      | 0.020   | U    | ug/L  | P353651  |          |
|           |             | Sucralose**      | 0.080   |      | ug/L  | P353656  |          |
|           |             | Acesulfame K**   | 0.31    | I    | ug/L  | P353656  |          |

Sample Location: NONSENSE CR @ LINGERLODGE RD

Collection Date/Time: 10/24/2018 12:50

Field ID: G2SW0041

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|---------|------|-------|----------|----------|
| 2036170   | EPA 8321B   | 2,4-D            | 0.0020  | U    | ug/L  | P353651  |          |
|           |             | Bentazon         | 0.026   |      | ug/L  | P353651  |          |
|           |             | MCP              | 0.0020  | U    | ug/L  | P353651  |          |
|           |             | Triclopyr**      | 0.0040  | U    | ug/L  | P353651  |          |
|           |             | Imidacloprid     | 0.016   |      | ug/L  | P353651  |          |
|           |             | Diuron           | 0.016   |      | ug/L  | P353651  |          |
|           |             | Pyraclostrobin** | 0.0020  | U    | ug/L  | P353651  |          |
|           |             | Primidone**      | 0.0040  | U    | ug/L  | P353651  |          |
|           |             | Linuron          | 0.0040  | U    | ug/L  | P353651  |          |
|           |             | Acetaminophen**  | 0.0080  | U    | ug/L  | P353651  |          |
|           |             | Fenuron          | 0.016   | U    | ug/L  | P353651  |          |
|           |             | Imazapyr**       | 0.96    |      | ug/L  | P353651  |          |
|           |             | Carbamazepine**  | 8.0E-04 | U    | ug/L  | P353651  |          |
|           |             | Fluridone**      | 0.071   |      | ug/L  | P353651  |          |
|           |             | Hydrocodone**    | 8.0E-04 | U    | ug/L  | P353651  |          |
|           |             | Naproxen**       | 0.0080  | U    | ug/L  | P353651  |          |
|           |             | Ibuprofen**      | 0.020   | U    | ug/L  | P353651  |          |
|           |             | Sucralose**      | 0.072   |      | ug/L  | P353656  |          |
|           |             | Acesulfame K**   | 0.21    | I    | ug/L  | P353656  |          |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P353684

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

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P353979

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

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P353981

| Component | Result | Code | Units                 |
|-----------|--------|------|-----------------------|
| Sulfate   | 0.20   | U    | mg SO <sub>4</sub> /L |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P354194

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

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P354270

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

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354058

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

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354146

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

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354147

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

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354148

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

## Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353830

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353831

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353967

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

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P354027

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

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P354028

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P353692

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P353694

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P353695

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

Reference Method: EPA 8321B  
Batch ID: P353651

| Component     | Result  | Code | Units |
|---------------|---------|------|-------|
| 2,4-D         | 0.0020  | U    | ug/L  |
| Acetaminophen | 0.0080  | U    | ug/L  |
| Bentazon      | 8.0E-04 | U    | ug/L  |
| Carbamazepine | 8.0E-04 | U    | ug/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8321B  
Batch ID: P353651

| Component      | Result  | Code | Units |
|----------------|---------|------|-------|
| Diuron         | 0.0020  | U    | ug/L  |
| Fenuron        | 0.016   | U    | ug/L  |
| Fluridone      | 4.0E-04 | U    | ug/L  |
| Hydrocodone    | 8.0E-04 | 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  |
| MCPP           | 0.0020  | U    | ug/L  |
| Naproxen       | 0.0080  | U    | ug/L  |
| Primidone      | 0.0040  | U    | ug/L  |
| Pyraclostrobin | 0.0020  | U    | ug/L  |
| Triclopyr      | 0.0040  | U    | ug/L  |

Reference Method: EPA 8321B  
Batch ID: P353656

| Component    | Result | Code | Units |
|--------------|--------|------|-------|
| Acesulfame K | 0.10   | U    | ug/L  |
| Sucralose    | 0.010  | U    | ug/L  |

Reference Method: SM 2120 B  
Batch ID: P353678

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

Reference Method: SM 2320 B-97  
Batch ID: P353899

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

Reference Method: SM 2320 B-97  
Batch ID: P354098

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

Reference Method: SM 2540 C-97  
Batch ID: P354163

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

Reference Method: SM 2540 D-97  
Batch ID: P354032

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

## Quality Assurance Report

### Method Blank Results

Reference Method: SM 2540 D-97  
Batch ID: P354034

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

Reference Method: SM 2540 D-97  
Batch ID: P354035

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TSS       | 3      | U    | mg/L  |

Reference Method: SM 4500 F-C-97  
Batch ID: P353904

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

Reference Method: SM 4500 F-C-97  
Batch ID: P354101

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

Reference Method: SM 5310 B-00  
Batch ID: P354155

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

Reference Method: SM 5310 B-00  
Batch ID: P354198

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

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P353979

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

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P353981

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Sulfate   | 98.7    |         | P         | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P354194

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

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P354270

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

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354058

| Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 99.8    |         | P         | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354146

| Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 107     |         | P         | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354147

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

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354148

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353830

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

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353831

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353967

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

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P354027

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

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P354028

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P353692

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P353694

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P353695

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

Reference Method: EPA 8321B  
Batch ID: P353651

| Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------|---------|-----------|----------------|
| 2,4-D         | 84.4    |         | P         | 40 - 150       |
| Acetaminophen | 135     |         | P         | 30 - 150       |
| Bentazon      | 91.0    |         | P         | 30 - 150       |
| Carbamazepine | 103     |         | P         | 40 - 150       |
| Diuron        | 99.3    |         | P         | 40 - 150       |
| Fenuron       | 137     |         | P         | 40 - 150       |
| Fluridone     | 115     |         | P         | 40 - 150       |
| Hydrocodone   | 104     |         | P         | 40 - 150       |
| Ibuprofen     | 96.2    |         | P         | 40 - 150       |
| Imazapyr      | 101     |         | P         | 40 - 150       |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B  
Batch ID: P353651

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Imidacloprid   | 124     |         | P         | 40 - 160       |
| Linuron        | 83.5    |         | P         | 40 - 150       |
| MCPP           | 111     |         | P         | 40 - 150       |
| Naproxen       | 95.7    |         | P         | 40 - 150       |
| Primidone      | 124     |         | P         | 40 - 150       |
| Pyraclostrobin | 77.2    |         | P         | 40 - 150       |
| Triclopyr      | 115     |         | P         | 40 - 150       |

Reference Method: EPA 8321B  
Batch ID: P353656

| Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Acesulfame K | 75.7    |         | P         | 40 - 150       |
| Sucralose    | 81.2    |         | P         | 40 - 150       |

Reference Method: SM 2120 B  
Batch ID: P353678

| Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Color (true) | 102     |         | P         | 85 - 115       |

Reference Method: SM 2320 B-97  
Batch ID: P353899

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| Total Alkalinity | 103     |         | P         | 98 - 107       |

Reference Method: SM 2320 B-97  
Batch ID: P354098

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| Total Alkalinity | 102     |         | P         | 98 - 107       |

Reference Method: SM 4500 F-C-97  
Batch ID: P353904

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Fluoride  | 101     |         | P         | 91 - 105       |

Reference Method: SM 4500 F-C-97  
Batch ID: P354101

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Fluoride  | 98.0    |         | P         | 91 - 105       |

Reference Method: SM 5310 B-00  
Batch ID: P354155

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Organic Carbon | 95.9    |         | P         | 85 - 115       |

## Quality Assurance Report

### Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00  
Batch ID: P354198

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Organic Carbon | 98.8    |         | P         | 85 - 115       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P353979

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2036179       | Chloride  | 98.4    |         | P         | 90 - 110       |
| 2036282       | Chloride  | 99.1    |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P353981

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2036179       | Sulfate   | 98.0    |         | P         | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P354194

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2036105       | Ammonia-N | 97.8    | 100     | P/P       | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P354270

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2036206       | Ammonia-N | 98.7    | 102     | P/P       | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354058

| Spiked Sample | Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 2036143       | Kjeldahl Nitrogen | 97.0    | 97.1    | P/P       | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354146

| Spiked Sample | Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 2036241       | Kjeldahl Nitrogen | 102     | 107     | P/P       | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354147

| Spiked Sample | Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 2036032       | Kjeldahl Nitrogen | 91.2    | 91.6    | P/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353830

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2035964       | NO2NO3-N  | 101     | 101     | P/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353831

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2036144       | NO2NO3-N  | 95.7    | 96.2    | P/P       | 90 - 110       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0  
 Batch ID: P353967

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2036105       | NO2NO3-N  | 105     | 104     | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
 Batch ID: P354027

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2036241       | Total-P   | 93.2    | 93.1    | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
 Batch ID: P354028

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2036181       | Total-P   | 97.7    | 99.2    | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
 Batch ID: P353692

| Spiked Sample | Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------|---------|---------|-----------|----------------|
| 2036038       | O-Phosphate-P | 97.0    | 98.5    | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
 Batch ID: P353694

| Spiked Sample | Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------|---------|---------|-----------|----------------|
| 2036052       | O-Phosphate-P | 98.7    | 98.8    | P/P       | 90 - 110       |

Reference Method: EPA 8321B  
 Batch ID: P353651

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2035844       | 2,4-D          | 126     | 127     | P/P       | 40 - 150       |
| 2035844       | Acetaminophen  | 103     | 107     | P/P       | 30 - 150       |
| 2035844       | Bentazon       | 43.9    | 41.0    | P/P       | 30 - 150       |
| 2035844       | Carbamazepine  | 60.8    | 63.2    | P/P       | 40 - 150       |
| 2035844       | Diuron         | 55.5    | 54.5    | P/P       | 40 - 150       |
| 2035844       | Fenuron        | 79.7    | 86.2    | P/P       | 40 - 150       |
| 2035844       | Fluridone      | 102     | 105     | P/P       | 40 - 150       |
| 2035844       | Hydrocodone    | 88.8    | 88.9    | P/P       | 40 - 150       |
| 2035844       | Ibuprofen      | 70.3    | 74.4    | P/P       | 40 - 150       |
| 2035844       | Imazapyr       | 80.0    | 87.4    | P/P       | 40 - 150       |
| 2035844       | Imidacloprid   | 142     | 145     | P/P       | 40 - 160       |
| 2035844       | Linuron        | 60.3    | 60.5    | P/P       | 40 - 150       |
| 2035844       | MCP            | 134     | 138     | P/P       | 40 - 150       |
| 2035844       | Naproxen       | 81.4    | 82.1    | P/P       | 40 - 150       |
| 2035844       | Primidone      | 91.6    | 93.6    | P/P       | 40 - 150       |
| 2035844       | Pyraclostrobin | 84.9    | 88.9    | P/P       | 40 - 150       |
| 2035844       | Triclopyr      | 136     | 130     | P/P       | 40 - 150       |

Reference Method: EPA 8321B  
 Batch ID: P353656

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

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B  
Batch ID: P353656

| Spiked Sample | Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------|---------|---------|-----------|----------------|
| 2036071       | Acesulfame K | 59.3    | 63.4    | P/P       | 40 - 150       |
| 2036071       | Sucralose    | 67.0    | 73.3    | P/P       | 40 - 150       |

Reference Method: SM 4500 F-C-97  
Batch ID: P353904

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2036282       | Fluoride  | 99.5    | 100     | P/P       | 91 - 105       |

Reference Method: SM 4500 F-C-97  
Batch ID: P354101

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2036115       | Fluoride  | 94.0    | 94.7    | P/P       | 91 - 105       |

Reference Method: SM 5310 B-00  
Batch ID: P354155

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2036116       | Organic Carbon | 95.9    | 96.5    | P/P       | 85 - 115       |

Reference Method: SM 5310 B-00  
Batch ID: P354198

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2036111       | Organic Carbon | 102     | 98.8    | P/P       | 85 - 115       |

## Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P353684

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036142                  | Turbidity | 3.23      | Sample            | P         | 0 - 20         |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P353979

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036179                  | Chloride  | 1.93      | Sample            | P         | 0 - 20         |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P353981

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036179                  | Sulfate   | 0.644     | Sample            | P         | 0 - 20         |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P354194

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036105                  | Ammonia-N | 1.92      | Spike             | P         | 0 - 20         |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P354270

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036206                  | Ammonia-N | 2.18      | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354058

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2036143                  | Kjeldahl Nitrogen | 0.0860    | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354146

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2036241                  | Kjeldahl Nitrogen | 4.34      | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354147

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2036032                  | Kjeldahl Nitrogen | 0.220     | Spike             | P         | 0 - 20         |

## Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P354148

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2036181                  | Kjeldahl Nitrogen | 2.31      | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353830

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2035964                  | NO2NO3-N  | 0.464     | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353831

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036144                  | NO2NO3-N  | 0.521     | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P353967

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036105                  | NO2NO3-N  | 0.322     | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P354027

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036241                  | Total-P   | 0.180     | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P354028

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036181                  | Total-P   | 1.39      | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P353692

| Replicated<br>Lab Sample | Component     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------|-----------|-------------------|-----------|----------------|
| 2036038                  | O-Phosphate-P | 0.885     | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P353694

| Replicated<br>Lab Sample | Component     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------|-----------|-------------------|-----------|----------------|
| 2036052                  | O-Phosphate-P | 0.0722    | Spike             | P         | 0 - 20         |

## Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P353695

| Replicated<br>Lab Sample | Component     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------|-----------|-------------------|-----------|----------------|
| 2036140                  | O-Phosphate-P | 0.804     | Spike             | P         | 0 - 20         |

Reference Method: EPA 8321B  
Batch ID: P353651

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2035844                  | 2,4-D          | 0.300     | Spike             | P         | 0 - 30         |
| 2035844                  | Acetaminophen  | 3.99      | Spike             | P         | 0 - 30         |
| 2035844                  | Bentazon       | 6.77      | Spike             | P         | 0 - 30         |
| 2035844                  | Carbamazepine  | 3.94      | Spike             | P         | 0 - 30         |
| 2035844                  | Diuron         | 1.79      | Spike             | P         | 0 - 30         |
| 2035844                  | Fenuron        | 7.83      | Spike             | P         | 0 - 30         |
| 2035844                  | Fluridone      | 3.22      | Spike             | P         | 0 - 30         |
| 2035844                  | Hydrocodone    | 0.152     | Spike             | P         | 0 - 30         |
| 2035844                  | Ibuprofen      | 5.55      | Spike             | P         | 0 - 30         |
| 2035844                  | Imazapyr       | 7.21      | Spike             | P         | 0 - 30         |
| 2035844                  | Imidacloprid   | 1.64      | Spike             | P         | 0 - 30         |
| 2035844                  | Linuron        | 0.281     | Spike             | P         | 0 - 30         |
| 2035844                  | MCPP           | 3.41      | Spike             | P         | 0 - 30         |
| 2035844                  | Naproxen       | 0.897     | Spike             | P         | 0 - 30         |
| 2035844                  | Primidone      | 2.08      | Spike             | P         | 0 - 30         |
| 2035844                  | Pyraclostrobin | 4.58      | Spike             | P         | 0 - 30         |
| 2035844                  | Triclopyr      | 4.27      | Spike             | P         | 0 - 30         |

Reference Method: EPA 8321B  
Batch ID: P353656

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2036071                  | Acesulfame K | 6.60      | Spike             | P         | 0 - 30         |
| 2036071                  | Sucralose    | 8.13      | Spike             | P         | 0 - 30         |

Reference Method: SM 2120 B  
Batch ID: P353678

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2036110                  | Color (true) | 2.17      | Sample            | P         | 0 - 20         |

Reference Method: SM 2320 B-97  
Batch ID: P353899

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 2036282                  | Total Alkalinity | 0.276     | Sample            | P         | 0 - 1.6        |

## Quality Assurance Report Precision

Reference Method: SM 2320 B-97  
 Batch ID: P354098

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 2036115                  | Total Alkalinity | 0.0661    | Sample            | P         | 0 - 1.6        |

Reference Method: SM 2540 C-97  
 Batch ID: P354163

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2035913                  | TDS       | 2.83      | Sample            | P         | 0 - 10         |

Reference Method: SM 4500 F-C-97  
 Batch ID: P353904

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036282                  | Fluoride  | 0.470     | Spike             | P         | 0 - 3.5        |

Reference Method: SM 4500 F-C-97  
 Batch ID: P354101

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2036115                  | Fluoride  | 0.470     | Spike             | P         | 0 - 3.5        |

Reference Method: SM 5310 B-00  
 Batch ID: P354155

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2036116                  | Organic Carbon | 0.601     | Spike             | P         | 0 - 20         |

Reference Method: SM 5310 B-00  
 Batch ID: P354198

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2036111                  | Organic Carbon | 2.23      | Spike             | P         | 0 - 20         |

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

## Quality Assurance Report Surrogates

Lab Sample ID: 2036168  
Field Sample ID: G2SW0040

| Reference Method | Surrogate         | % Rec. | Pass/Fail | Control Limits |
|------------------|-------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3          | 108    | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4  | 73.0   | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10 | 59.1   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6         | 50.8   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6      | 102    | P         | 40 - 160       |
| EPA 8321B        | Ibuprofen-d3      | 93.9   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5      | 57.7   | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6      | 119    | P         | 40 - 160       |

Lab Sample ID: 2036169  
Field Sample ID: G2SW0015

| Reference Method | Surrogate         | % Rec. | Pass/Fail | Control Limits |
|------------------|-------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3          | 105    | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4  | 77.2   | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10 | 51.3   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6         | 48.3   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6      | 95.3   | P         | 40 - 160       |
| EPA 8321B        | Ibuprofen-d3      | 97.0   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5      | 52.1   | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6      | 111    | P         | 40 - 160       |

Lab Sample ID: 2036170  
Field Sample ID: G2SW0041

| Reference Method | Surrogate         | % Rec. | Pass/Fail | Control Limits |
|------------------|-------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3          | 102    | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4  | 87.9   | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10 | 58.8   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6         | 53.4   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6      | 99.9   | P         | 40 - 160       |
| EPA 8321B        | Ibuprofen-d3      | 95.0   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5      | 57.8   | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6      | 117    | P         | 40 - 160       |

## Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A87286

Included Lab Sample IDs: 2036135, 2036136

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Color (true) | 103     | 103     | P/P        | 90 - 115       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A87287

Included Lab Sample IDs: 2036139, 2036140, 2036145, 2036146

| Component     | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------|---------|---------|------------|----------------|
| O-Phosphate-P | 100     | 101     | P/P        | 90 - 110       |
| O-Phosphate-P | 98.7    | 98.3    | P/P        | 90 - 110       |

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A87288

Included Lab Sample IDs: 2036135, 2036136, 2036141, 2036142

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Turbidity | 101     | 101     | P/P        | 95 - 105       |

Reference Method: EPA 8321B

Run ID: A87330

Included Lab Sample IDs: 2036168, 2036169, 2036170

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Sucralose | 70.4    | 74.4    | P/P        | 60 - 160       |
| Sucralose | 76.1    | 70.4    | P/P        | 60 - 160       |

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A87354

Included Lab Sample IDs: 2036143, 2036144

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| NO2NO3-N  | 99.0    | 99.0    | P/P        | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A87368

Included Lab Sample IDs: 2036135, 2036136

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Chloride  | 104     | 104     | P/P        | 90 - 110       |
| Sulfate   | 102     | 103     | P/P        | 90 - 110       |

Reference Method: EPA 8321B

Run ID: A87369

Included Lab Sample IDs: 2036168, 2036169, 2036170

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Acesulfame K | 61.8    | 67.6    | P/P        | 60 - 160       |
| Acesulfame K | 63.9    | 61.8    | P/P        | 60 - 160       |

## Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A87382

Included Lab Sample IDs: 2036135, 2036136, 2036142

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| Total Alkalinity | 104     | 101     | P/P        | 90 - 110       |

Reference Method: SM 4500 F-C-97

Run ID: A87382

Included Lab Sample IDs: 2036135, 2036136, 2036142

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A87412

Included Lab Sample IDs: 2036137, 2036138

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A87437

Included Lab Sample IDs: 2036137, 2036138, 2036143, 2036144

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Total-P   | 103     | 103     | P/P        | 90 - 110       |
| Total-P   | 103     | 102     | P/P        | 90 - 110       |

Reference Method: SM 2320 B-97

Run ID: A87470

Included Lab Sample IDs: 2036141

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| Total Alkalinity | 103     | 100     | P/P        | 90 - 110       |

Reference Method: SM 4500 F-C-97

Run ID: A87470

Included Lab Sample IDs: 2036141

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A87488

Included Lab Sample IDs: 2036143

| Component         | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Kjeldahl Nitrogen | 96.4    | 98.5    | P/P        | 90 - 110       |

Reference Method: SM 5310 B-00

Run ID: A87498

Included Lab Sample IDs: 2036143

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Organic Carbon | 98.2    | 99.6    | P/P        | 90 - 110       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A87519

Included Lab Sample IDs: 2036137, 2036138

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

Reference Method: SM 5310 B-00

Run ID: A87522

Included Lab Sample IDs: 2036137, 2036138, 2036144

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Organic Carbon | 97.6    | 97.5    | P/P        | 90 - 110       |
| Organic Carbon | 98.2    | 97.6    | P/P        | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A87524

Included Lab Sample IDs: 2036137, 2036138, 2036144

| Component         | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Kjeldahl Nitrogen | 101     | 102     | P/P        | 90 - 110       |
| Kjeldahl Nitrogen | 96.8    | 104     | P/P        | 90 - 110       |
| Kjeldahl Nitrogen | 99.9    | 101     | P/P        | 90 - 110       |

Reference Method: EPA 8321B

Run ID: A87533

Included Lab Sample IDs: 2036168, 2036169, 2036170

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Acetaminophen  | 71.4    | 66.6    | P/P        | 60 - 160       |
| Carbamazepine  | 106     | 109     | P/P        | 60 - 160       |
| Diuron         | 98.8    | 95.7    | P/P        | 60 - 150       |
| Fenuron        | 88.1    | 79.8    | P/P        | 60 - 150       |
| Fluridone      | 120     | 121     | P/P        | 60 - 160       |
| Hydrocodone    | 71.9    | 76.1    | P/P        | 60 - 150       |
| Imazapyr       | 90.3    | 103     | P/P        | 50 - 150       |
| Imidacloprid   | 87.9    | 86.1    | P/P        | 60 - 150       |
| Linuron        | 102     | 100     | P/P        | 60 - 150       |
| Primidone      | 74.0    | 71.3    | P/P        | 60 - 150       |
| Pyraclostrobin | 92.8    | 92.6    | P/P        | 60 - 150       |

Reference Method: EPA 8321B

Run ID: A87543

Included Lab Sample IDs: 2036168, 2036169, 2036170

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| 2,4-D     | 89.5    | 92.3    | P/P        | 50 - 150       |
| Bentazon  | 110     | 112     | P/P        | 50 - 160       |
| Ibuprofen | 100     | 86.6    | P/P        | 50 - 160       |
| Imazapyr  | 114     | 111     | P/P        | 50 - 150       |
| MCP       | 96.6    | 100     | P/P        | 50 - 150       |
| Naproxen  | 103     | 104     | P/P        | 50 - 160       |
| Triclopyr | 106     | 98.1    | P/P        | 50 - 160       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A87556

Included Lab Sample IDs: 2036143, 2036144

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Ammonia-N | 101     | 101     | P/P        | 90 - 110       |
| Ammonia-N | 101     | 103     | 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         |                |               |      |     | 3.23      |        |
| EPA 300.0 Rev. 2.1           | Chloride          | 101            | 98.4          | 99.1 |     | 1.93      |        |
|                              | Sulfate           | 98.7           | 98.0          |      |     | 0.644     |        |
| EPA 350.1 Rev. 2.0           | Ammonia-N         | 99.2           | 97.8          | 100  |     |           | 1.92   |
|                              | Ammonia-N         | 98.2           | 98.7          | 102  |     |           | 2.18   |
| EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 99.8           | 97.0          | 97.1 |     |           | 0.0860 |
|                              | Kjeldahl Nitrogen | 107            | 102           | 107  |     |           | 4.34   |
|                              | Kjeldahl Nitrogen | 105            | 91.2          | 91.6 |     |           | 0.220  |
|                              | Kjeldahl Nitrogen | 104            |               |      |     |           | 2.31   |
| EPA 353.2 Rev. 2.0           | NO2NO3-N          | 100            | 101           | 101  |     |           | 0.464  |
|                              | NO2NO3-N          | 101            | 95.7          | 96.2 |     |           | 0.521  |
|                              | NO2NO3-N          | 104            | 105           | 104  |     |           | 0.322  |
| EPA 365.1 Rev. 2.0           | Total-P           | 103            | 93.2          | 93.1 |     |           | 0.180  |
|                              | Total-P           | 99.6           | 97.7          | 99.2 |     |           | 1.39   |
| EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 98.8           | 97.0          | 98.5 |     |           | 0.885  |
|                              | O-Phosphate-P     | 102            | 98.7          | 98.8 |     |           | 0.0722 |
|                              | O-Phosphate-P     | 102            |               |      |     |           | 0.804  |
| EPA 8321B                    | 2,4-D             | 84.4           | 127           | 126  |     |           | 0.300  |
|                              | Acesulfame K      | 75.7           | 59.3          | 63.4 |     |           | 6.60   |
|                              | Acetaminophen     | 135            | 103           | 107  |     |           | 3.99   |
|                              | Bentazon          | 91.0           | 41.0          | 43.9 |     |           | 6.77   |
|                              | Carbamazepine     | 103            | 60.8          | 63.2 |     |           | 3.94   |
|                              | Diuron            | 99.3           | 55.5          | 54.5 |     |           | 1.79   |
|                              | Fenuron           | 137            | 79.7          | 86.2 |     |           | 7.83   |
|                              | Fluridone         | 115            | 102           | 105  |     |           | 3.22   |
|                              | Hydrocodone       | 104            | 88.8          | 88.9 |     |           | 0.152  |
|                              | Ibuprofen         | 96.2           | 70.3          | 74.4 |     |           | 5.55   |
|                              | Imazapyr          | 101            | 80.0          | 87.4 |     |           | 7.21   |
|                              | Imidacloprid      | 124            | 142           | 145  |     |           | 1.64   |
|                              | Linuron           | 83.5           | 60.3          | 60.5 |     |           | 0.281  |
|                              | MCPP              | 111            | 134           | 138  |     |           | 3.41   |
|                              | Naproxen          | 95.7           | 81.4          | 82.1 |     |           | 0.897  |
|                              | Primidone         | 124            | 91.6          | 93.6 |     |           | 2.08   |
|                              | Pyraclostrobin    | 77.2           | 84.9          | 88.9 |     |           | 4.58   |
|                              | Sucralose         | 81.2           | 67.0          | 73.3 |     |           | 8.13   |
|                              | Triclopyr         | 115            | 136           | 130  |     |           | 4.27   |
| SM 2120 B                    | Color (true)      | 102            |               |      |     | 2.17      |        |
| SM 2320 B-97                 | Total Alkalinity  | 103            |               |      |     | 0.276     |        |
|                              | Total Alkalinity  | 102            |               |      |     | 0.0661    |        |
| SM 2540 C-97                 | TDS               |                |               |      |     | 2.83      |        |
| SM 4500 F-C-97               | Fluoride          | 101            | 99.5          | 100  |     |           | 0.470  |
|                              | Fluoride          | 98.0           | 94.0          | 94.7 |     |           | 0.470  |
| SM 5310 B-00                 | Organic Carbon    | 95.9           | 95.9          | 96.5 |     |           | 0.601  |
|                              | Organic Carbon    | 98.8           | 102           | 98.8 |     |           | 2.23   |

## Reference Method Descriptions

| Method / DoH Cert #         | Description                   | Associated Samples                 |
|-----------------------------|-------------------------------|------------------------------------|
| EPA 180.1 Rev. 2.0 / E31780 | Turbidity in aqueous matrices | 2036135, 2036136, 2036141, 2036142 |
| EPA 300.0 Rev. 2.1 / E31780 | Chloride in aqueous matrices  | 2036135, 2036136                   |

## Reference Method Descriptions

| Method / DoH Cert #                   | Description                                                                         | Associated Samples                 |
|---------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|
| EPA 300.0 Rev. 2.1 / E31780           | Sulfate in aqueous matrices                                                         | 2036135, 2036136                   |
| EPA 350.1 Rev. 2.0 / E31780           | Ammonia in aqueous matrices as mg N/L                                               | 2036137, 2036138, 2036143, 2036144 |
| EPA 351.2 Rev. 2.0 / E31780           | Total Kjeldahl Nitrogen in aqueous matrices                                         | 2036137, 2036138, 2036143, 2036144 |
| EPA 353.2 Rev. 2.0 / E31780           | Nitrite/Nitrate in aqueous matrices as mg N/L                                       | 2036137, 2036138, 2036143, 2036144 |
| EPA 365.1 Rev. 2.0 / E31780           | Total Phosphorus in aqueous matrices as mg P/L                                      | 2036137, 2036138, 2036143, 2036144 |
| EPA 365.1 Rev. 2.0 dissolved / E31780 | Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                 | 2036139, 2036140, 2036145, 2036146 |
| EPA 8321B / E31780                    | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS         | 2036168, 2036169, 2036170          |
| SM 2120 B / E31780                    | True Color measured at 450 nm                                                       | 2036135, 2036136                   |
| SM 2320 B-97 / E31780                 | Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                           | 2036135, 2036136, 2036141, 2036142 |
| SM 2540 C-97 / E31780                 | Total Dissolved Solids in aqueous matrices                                          | 2036135, 2036136                   |
| SM 2540 D-97 / E31780                 | Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample      | 2036135, 2036136, 2036141, 2036142 |
| SM 4500 F-C-97 / E31780               | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) | 2036135, 2036136, 2036141, 2036142 |
| SM 5310 B-00 / E31780                 | Nonpurgeable Organic Carbon in aqueous matrices                                     | 2036137, 2036138, 2036143, 2036144 |

## 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           | 10/25/2018    |                  |               | 10/25/2018 17:19   | Julia Storbeck     | 2036135, 2036136, 2036141, 2036142 |
| EPA 300.0 Rev. 2.1           | 10/25/2018    |                  |               | 10/30/2018 22:58   | Lipi Saha          | 2036135                            |
|                              | 10/25/2018    |                  |               | 10/30/2018 23:11   | Lipi Saha          | 2036136                            |
| EPA 350.1 Rev. 2.0           | 10/25/2018    |                  |               | 11/02/2018 13:17   | Ping Hua           | 2036137                            |
|                              | 10/25/2018    |                  |               | 11/02/2018 13:19   | Ping Hua           | 2036138                            |
|                              | 10/25/2018    |                  |               | 11/06/2018 12:27   | Julia Storbeck     | 2036143                            |
|                              | 10/25/2018    |                  |               | 11/06/2018 12:34   | Julia Storbeck     | 2036144                            |
| EPA 351.2 Rev. 2.0           | 10/25/2018    | 11/01/2018 17:00 | Adrian Shelby | 11/02/2018 12:47   | Virginia P. Brown  | 2036143                            |
|                              | 10/25/2018    | 11/02/2018 12:30 | Adrian Shelby | 11/05/2018 10:11   | Joseph Suarez      | 2036144                            |
|                              | 10/25/2018    | 11/02/2018 12:30 | Adrian Shelby | 11/05/2018 10:52   | Joseph Suarez      | 2036137                            |
|                              | 10/25/2018    | 11/02/2018 12:30 | Adrian Shelby | 11/05/2018 10:59   | Joseph Suarez      | 2036138                            |
| EPA 353.2 Rev. 2.0           | 10/25/2018    |                  |               | 10/29/2018 11:48   | Beverly Y. Sanders | 2036143                            |
|                              | 10/25/2018    |                  |               | 10/29/2018 11:55   | Beverly Y. Sanders | 2036144                            |
|                              | 10/25/2018    |                  |               | 10/31/2018 11:25   | Beverly Y. Sanders | 2036137                            |
|                              | 10/25/2018    |                  |               | 10/31/2018 11:26   | Beverly Y. Sanders | 2036138                            |
| EPA 365.1 Rev. 2.0           | 10/25/2018    | 10/31/2018 16:00 | Adrian Shelby | 11/01/2018 09:32   | Beverly Y. Sanders | 2036143                            |
|                              | 10/25/2018    | 10/31/2018 16:00 | Adrian Shelby | 11/01/2018 09:33   | Beverly Y. Sanders | 2036144                            |
|                              | 10/25/2018    | 10/31/2018 16:00 | Adrian Shelby | 11/01/2018 09:52   | Beverly Y. Sanders | 2036137                            |
|                              | 10/25/2018    | 10/31/2018 16:00 | Adrian Shelby | 11/01/2018 09:53   | Beverly Y. Sanders | 2036138                            |
| EPA 365.1 Rev. 2.0 dissolved | 10/25/2018    |                  |               | 10/25/2018 15:46   | Lipi Saha          | 2036145                            |
|                              | 10/25/2018    |                  |               | 10/25/2018 15:47   | Lipi Saha          | 2036146                            |
|                              | 10/25/2018    |                  |               | 10/25/2018 15:49   | Lipi Saha          | 2036140                            |
|                              | 10/25/2018    |                  |               | 10/25/2018 16:39   | Lipi Saha          | 2036139                            |
| EPA 8321B                    | 10/25/2018    | 10/26/2018 10:00 | Hoor Shaik    | 11/02/2018 05:23   | Juyoung Kim        | 2036168                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Hoor Shaik    | 11/02/2018 05:57   | Juyoung Kim        | 2036169                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Hoor Shaik    | 11/02/2018 06:32   | Juyoung Kim        | 2036170                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Hoor Shaik    | 11/04/2018 09:32   | Juyoung Kim        | 2036168                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Hoor Shaik    | 11/04/2018 10:07   | Juyoung Kim        | 2036169                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Hoor Shaik    | 11/04/2018 10:41   | Juyoung Kim        | 2036170                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Hoor Shaik    | 11/05/2018 13:20   | Juyoung Kim        | 2036170                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Rebecca Ware  | 10/27/2018 23:22   | Mohammad Ghaffari  | 2036168                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Rebecca Ware  | 10/27/2018 23:52   | Mohammad Ghaffari  | 2036169                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Rebecca Ware  | 10/28/2018 00:06   | Mohammad Ghaffari  | 2036170                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Rebecca Ware  | 10/30/2018 00:37   | Rebecca Ware       | 2036169                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Rebecca Ware  | 10/30/2018 01:06   | Rebecca Ware       | 2036170                            |
|                              | 10/25/2018    | 10/26/2018 10:00 | Rebecca Ware  | 10/30/2018 02:49   | Rebecca Ware       | 2036168                            |
| SM 2120 B                    | 10/25/2018    |                  |               | 10/25/2018 15:50   | Chelsea Hernandez  | 2036135                            |
|                              | 10/25/2018    |                  |               | 10/25/2018 15:51   | Chelsea Hernandez  | 2036136                            |
| SM 2320 B-97                 | 10/25/2018    |                  |               | 10/29/2018 10:53   | Dale L. Simmons    | 2036135                            |
|                              | 10/25/2018    |                  |               | 10/29/2018 11:04   | Dale L. Simmons    | 2036136                            |

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## Preparation and Analysis Log

| Ref. Method    | Received Date | Prep Date/Time | Prepared By | Analysis Date/Time | Analyzed By     | Associated Samples                 |
|----------------|---------------|----------------|-------------|--------------------|-----------------|------------------------------------|
| SM 2320 B-97   | 10/25/2018    |                |             | 10/29/2018 11:14   | Dale L. Simmons | 2036142                            |
|                | 10/25/2018    |                |             | 10/31/2018 05:14   | Dale L. Simmons | 2036141                            |
| SM 2540 C-97   | 10/25/2018    |                |             | 10/26/2018 14:25   | Yijie Li        | 2036135, 2036136                   |
| SM 2540 D-97   | 10/25/2018    |                |             | 10/26/2018 14:25   | Yijie Li        | 2036135, 2036136, 2036141, 2036142 |
| SM 4500 F-C-97 | 10/25/2018    |                |             | 10/29/2018 10:53   | Dale L. Simmons | 2036135                            |
|                | 10/25/2018    |                |             | 10/29/2018 11:04   | Dale L. Simmons | 2036136                            |
|                | 10/25/2018    |                |             | 10/29/2018 11:14   | Dale L. Simmons | 2036142                            |
|                | 10/25/2018    |                |             | 10/31/2018 04:31   | Dale L. Simmons | 2036141                            |
| SM 5310 B-00   | 10/25/2018    |                |             | 11/02/2018 07:49   | Megan Treadwell | 2036143                            |
|                | 10/25/2018    |                |             | 11/02/2018 08:05   | Megan Treadwell | 2036137                            |
|                | 10/25/2018    |                |             | 11/02/2018 08:17   | Megan Treadwell | 2036138                            |
|                | 10/25/2018    |                |             | 11/02/2018 08:53   | Megan Treadwell | 2036144                            |