# Chemical Analysis Report

**CEN-DIST-2021-03-31-05**

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

Event Description: **Lake Downey**
Request ID: **RQ-2021-03-29-17**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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## 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 group are included in this report: Nutrients.

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: Lake Downey @ Center** **Collection Date/Time: 03/30/2021 12:18**

**Field ID: G2CE0227** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2235206 | EPA 180.1 Rev. 2.0 | Turbidity | 1.4 | | NTU | P395748 | |
| | EPA 300.0 Rev. 2.1 | Chloride | 27 | | mg Cl/L | P395937 | |
| | | Sulfate | 4.2 | | mg SO4/L | P395941 | |
| | SM 2120 B-2011 | Color (true) | 32 | | PCU | P395759 | |
| | SM 2320 B-2011 | Total Alkalinity | 10 | | mg CaCO3/L | P395836 | |
| | SM 2540 C-2011 | TDS | 74 | | mg/L | P396196 | |
| | SM 2540 D-2011 | TSS | 2 | U | mg/L | P396188 | |
| | SM 4500 F-C-2011 | Fluoride | 0.039 | I | mg F/L | P395839 | |
| 2235207 | EPA 350.1 Rev. 2.0 | Ammonia-N | 0.004 | I | mg N/L | P396128 | |
| | EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen | 0.65 | | mg N/L | P396376 | |
| | EPA 353.2 Rev. 2.0 | NO2NO3-N | 0.004 | U | mg N/L | P395864 | |
| | EPA 365.1 Rev. 2.0 | Total-P | 0.013 | | mg P/L | P395889 | |
| | SM 5310 B-2011 | Organic Carbon | 11 | | mg C/L | P395933 | |
| 2235208 | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P | 0.004 | U | mg P/L | P395744 | |

Ref. Method and Comment:
SM 2540 D-2011: 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.

# Quality Assurance Report
# Method Blank Results

**Reference Method: EPA 180.1 Rev. 2.0**
**Batch ID: P395748**

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

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P395937**

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

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P395941**

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

**Reference Method: EPA 350.1 Rev. 2.0**
**Batch ID: P396128**

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

**Reference Method: EPA 351.2 Rev. 2.0**
**Batch ID: P396376**

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

**Reference Method: EPA 353.2 Rev. 2.0**
**Batch ID: P395864**

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

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P395889**

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

**Reference Method: EPA 365.1 Rev. 2.0 dissolved**
**Batch ID: P395744**

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

**Reference Method: SM 2120 B-2011**
**Batch ID: P395759**

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

# Quality Assurance Report
# Method Blank Results

**Reference Method: SM 2320 B-2011**
**Batch ID: P395836**

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

**Reference Method: SM 2540 C-2011**
**Batch ID: P396196**

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

**Reference Method: SM 2540 D-2011**
**Batch ID: P396188**

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

**Reference Method: SM 4500 F-C-2011**
**Batch ID: P395839**

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

**Reference Method: SM 5310 B-2011**
**Batch ID: P395933**

| 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: P395937**

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

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P395941**

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

**Reference Method: EPA 350.1 Rev. 2.0**
**Batch ID: P396128**

| 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: P396376**

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

**Reference Method: EPA 353.2 Rev. 2.0**
**Batch ID: P395864**

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

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P395889**

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

**Reference Method: EPA 365.1 Rev. 2.0 dissolved**
**Batch ID: P395744**

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

**Reference Method: SM 2120 B-2011**
**Batch ID: P395759**

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

**Reference Method: SM 2320 B-2011**
**Batch ID: P395836**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Total Alkalinity | 101 | | P | 93 - 104 |

# Quality Assurance Report
# Laboratory Control Sample Accuracy

**Reference Method: SM 4500 F-C-2011**
**Batch ID: P395839**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Fluoride | 97.4 | | P | 90 - 106 |

**Reference Method: SM 5310 B-2011**
**Batch ID: P395933**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Organic Carbon | 96.9 | | P | 85 - 115 |

# Quality Assurance Report
# Matrix Spike Accuracy

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P395937**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2234995 | Chloride | 104 | | P | 90 - 110 |
| 2235206 | Chloride | 103 | | P | 90 - 110 |

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P395941**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2234995 | Sulfate | 103 | | P | 90 - 110 |
| 2235206 | Sulfate | 103 | | P | 90 - 110 |

**Reference Method: EPA 350.1 Rev. 2.0**
**Batch ID: P396128**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235202 | Ammonia-N | 96.6 | 97.8 | P/P | 90 - 110 |

**Reference Method: EPA 353.2 Rev. 2.0**
**Batch ID: P395864**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235046 | NO2NO3-N | 102 | 102 | P/P | 90 - 110 |

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P395889**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235202 | Total-P | 103 | 104 | P/P | 90 - 110 |

**Reference Method: EPA 365.1 Rev. 2.0 dissolved**
**Batch ID: P395744**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235047 | O-Phosphate-P | 102 | 101 | P/P | 90 - 110 |

**Reference Method: SM 4500 F-C-2011**
**Batch ID: P395839**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235233 | Fluoride | 98.3 | 99.8 | P/P | 94 - 107 |

**Reference Method: SM 5310 B-2011**
**Batch ID: P395933**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2234901 | Organic Carbon | 95.4 | 96.6 | P/P | 85 - 115 |

# Quality Assurance Report
# Precision

**Reference Method: EPA 180.1 Rev. 2.0**
**Batch ID: P395748**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235211 | Turbidity | 3.90 | Sample | P | 0 - 20 |

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P395937**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2234995 | Chloride | 0.458 | Sample | P | 0 - 20 |

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P395941**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2234995 | Sulfate | 0.000808 | Sample | P | 0 - 20 |

**Reference Method: EPA 350.1 Rev. 2.0**
**Batch ID: P396128**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235202 | Ammonia-N | 1.09 | Spike | P | 0 - 20 |

**Reference Method: EPA 351.2 Rev. 2.0**
**Batch ID: P396376**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235477 | Kjeldahl Nitrogen | 5.21 | Spike | P | 0 - 20 |

**Reference Method: EPA 353.2 Rev. 2.0**
**Batch ID: P395864**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235046 | NO2NO3-N | 0.0 | Spike | P | 0 - 20 |

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P395889**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235202 | Total-P | 0.611 | Spike | P | 0 - 20 |

**Reference Method: EPA 365.1 Rev. 2.0 dissolved**
**Batch ID: P395744**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235047 | O-Phosphate-P | 0.560 | Spike | P | 0 - 20 |

# Quality Assurance Report
# Precision

**Reference Method: SM 2120 B-2011**
**Batch ID: P395759**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2234983 | Color (true) | 0.734 | Sample | P | 0 - 20 |

**Reference Method: SM 2320 B-2011**
**Batch ID: P395836**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235233 | Total Alkalinity | 2.91 | Sample | P | 0 - 8.1 |

**Reference Method: SM 2540 C-2011**
**Batch ID: P396196**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2234983 | TDS | 3.50 | Sample | P | 0 - 10 |

**Reference Method: SM 4500 F-C-2011**
**Batch ID: P395839**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2235233 | Fluoride | 0.946 | Spike | P | 0 - 2.8 |

**Reference Method: SM 5310 B-2011**
**Batch ID: P395933**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2234901 | Organic Carbon | 0.865 | Spike | P | 0 - 20 |

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

# Quality Assurance Report
# Calibration Verification

**Reference Method: EPA 300.0 Rev. 2.1**
**Run ID: A104389**
**Included Lab Sample IDs: 2235206**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Chloride | 99.6 | 100 | P/P | 90 - 110 |
| Sulfate | 98.8 | 99.2 | P/P | 90 - 110 |

**Reference Method: EPA 365.1 Rev. 2.0 dissolved**
**Run ID: A104397**
**Included Lab Sample IDs: 2235208**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| O-Phosphate-P | 98.6 | 98.1 | P/P | 90 - 110 |

**Reference Method: EPA 180.1 Rev. 2.0**
**Run ID: A104398**
**Included Lab Sample IDs: 2235206**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Turbidity | 102 | 101 | P/P | 95 - 105 |

**Reference Method: SM 2120 B-2011**
**Run ID: A104399**
**Included Lab Sample IDs: 2235206**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Color (true) | 100 | 99.7 | P/P | 90 - 115 |

**Reference Method: SM 2320 B-2011**
**Run ID: A104438**
**Included Lab Sample IDs: 2235206**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Total Alkalinity | 102 | 99.6 | P/P | 90 - 110 |

**Reference Method: SM 4500 F-C-2011**
**Run ID: A104438**
**Included Lab Sample IDs: 2235206**

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

**Reference Method: EPA 353.2 Rev. 2.0**
**Run ID: A104447**
**Included Lab Sample IDs: 2235207**

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

**Reference Method: SM 5310 B-2011**
**Run ID: A104475**
**Included Lab Sample IDs: 2235207**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Organic Carbon | 97.0 | 96.8 | P/P | 90 - 110 |

# Quality Assurance Report
# Calibration Verification

**Reference Method: EPA 365.1 Rev. 2.0**
**Run ID: A104493**
**Included Lab Sample IDs: 2235207**

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

**Reference Method: EPA 350.1 Rev. 2.0**
**Run ID: A104561**
**Included Lab Sample IDs: 2235207**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Ammonia-N | 97.8 | 97.4 | P/P | 90 - 110 |

**Reference Method: EPA 351.2 Rev. 2.0**
**Run ID: A104729**
**Included Lab Sample IDs: 2235207**

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

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

# Quality Assurance Report
# Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | | Precision | | |
|---|---|---|---|---|---|---|---|
| | | | | | LCS | SMP | MS |
| EPA 180.1 Rev. 2.0 | Turbidity | | | | | 3.90 | |
| EPA 300.0 Rev. 2.1 | Chloride | 104 | 104 | 103 | | 0.458 | |
| | Sulfate | 103 | 103 | 103 | | 0.0008 | |
| EPA 350.1 Rev. 2.0 | Ammonia-N | 98.2 | 96.6 | 97.8 | | | 1.09 |
| EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen | 101 | | | | | 5.21 |
| EPA 353.2 Rev. 2.0 | NO2NO3-N | 103 | 102 | 102 | | | 0.0 |
| EPA 365.1 Rev. 2.0 | Total-P | 105 | 103 | 104 | | | 0.611 |
| EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P | 101 | 102 | 101 | | | 0.560 |
| SM 2120 B-2011 | Color (true) | 100 | | | | 0.734 | |
| SM 2320 B-2011 | Total Alkalinity | 101 | | | | 2.91 | |
| SM 2540 C-2011 | TDS | | | | | 3.50 | |
| SM 4500 F-C-2011 | Fluoride | 97.4 | 98.3 | 99.8 | | | 0.946 |
| SM 5310 B-2011 | Organic Carbon | 96.9 | 95.4 | 96.6 | | | 0.865 |

# Reference Method Descriptions

| Method | Description | Associated Samples |
|---|---|---|
| EPA 180.1 Rev. 2.0 | Turbidity in aqueous matrices | 2235206 |
| EPA 300.0 Rev. 2.1 | Chloride in aqueous matrices | 2235206 |
| EPA 300.0 Rev. 2.1 | Sulfate in aqueous matrices | 2235206 |
| EPA 350.1 Rev. 2.0 | Ammonia in aqueous matrices as mg N/L | 2235207 |
| EPA 351.2 Rev. 2.0 | Total Kjeldahl Nitrogen in aqueous matrices | 2235207 |
| EPA 353.2 Rev. 2.0 | Nitrite/Nitrate in aqueous matrices as mg N/L | 2235207 |
| EPA 365.1 Rev. 2.0 | Total Phosphorus in aqueous matrices as mg P/L | 2235207 |
| EPA 365.1 Rev. 2.0 dissolved | Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L | 2235208 |
| SM 2120 B-2011 | True Color measured at 450 nm (not valid for NPDES monitoring) | 2235206 |
| SM 2320 B-2011 | Alkalinity in aqueous matrices as mg CaCO3/L | 2235206 |
| SM 2540 C-2011 | Total Dissolved Solids in aqueous matrices | 2235206 |
| SM 2540 D-2011 | Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample | 2235206 |
| SM 4500 F-C-2011 | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) | 2235206 |
| SM 5310 B-2011 | Nonpurgeable Organic Carbon in aqueous matrices | 2235207 |

# Preparation and Analysis Log

| Ref. Method | Received Date | Prep Date/Time | Prepared By | Analysis Date/Time | Analyzed By | Associated Samples |
|---|---|---|---|---|---|---|
| EPA 180.1 Rev. 2.0 | 03/31/2021 | | | 03/31/2021 16:06 | Yen Ta | 2235206 |
| EPA 300.0 Rev. 2.1 | 03/31/2021 | | | 04/03/2021 01:27 | Lipi Saha | 2235206 |
| EPA 350.1 Rev. 2.0 | 03/31/2021 | | | 04/07/2021 18:02 | Ping Hua | 2235207 |
| EPA 351.2 Rev. 2.0 | 03/31/2021 | 04/12/2021 14:15 | Yen Ta | 04/14/2021 13:20 | Virginia P. Brown | 2235207 |
| EPA 353.2 Rev. 2.0 | 03/31/2021 | | | 04/02/2021 09:51 | Beverly Y. Sanders | 2235207 |
| EPA 365.1 Rev. 2.0 | 03/31/2021 | 04/02/2021 13:22 | Yen Ta | 04/05/2021 14:34 | Shengyu Ding | 2235207 |
| EPA 365.1 Rev. 2.0 dissolved | 03/31/2021 | | | 03/31/2021 14:57 | Patrick M. Roche | 2235208 |
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