

Chemical Analysis Report

CEN-DIST-2017-07-07-02

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

Event Description: **Starke + LVI / Prima Vista + LVI**
Request ID: **RQ-2017-07-03-33**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Mike Linger

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 01-AUG-2017 10:42

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 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 1.3×10^3 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: Lake Prima Vista @ Center

Collection Date/Time: 07/06/2017 11:15

Field ID: G2CE0125

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1911833	EPA 180.1 Rev. 2.0	Turbidity	11		NTU	P328132	
	EPA 300.0 Rev. 2.1	Chloride	29		mg Cl/L	P328361	
		Sulfate	26		mg SO4/L	P328504	
	SM 2120 B	Color (true)	22	A	PCU	P328137	
	SM 2320 B-97	Total Alkalinity	45		mg CaCO3/L	P328318	
	SM 2540 C-97	TDS	149		mg/L	P328602	
	SM 2540 D-97	TSS	9	I	mg/L	P328652	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P328322	
1911835	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P328409	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P328480	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.023		mg N/L	P328337	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P328442	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P328791	
1911837	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P328122	

Ref. Method and Comment:

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.

Sample Location: Lake Starke @ Center

Collection Date/Time: 07/06/2017 11:30

Field ID: G2CE0094

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1911834	EPA 180.1 Rev. 2.0	Turbidity	6.2		NTU	P328132	
	EPA 300.0 Rev. 2.1	Chloride	30		mg Cl/L	P328361	
		Sulfate	24		mg SO4/L	P328504	
	SM 2120 B	Color (true)	17		PCU	P328137	
	SM 2320 B-97	Total Alkalinity	55	A	mg CaCO3/L	P328318	
	SM 2540 C-97	TDS	146	A	mg/L	P328602	
	SM 2540 D-97	TSS	6	IA	mg/L	P328652	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P328322	
1911836	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P328410	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P328480	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P328337	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P328445	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P328791	
1911838	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P328122	

Ref. Method and Comment:

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.

Quality Assurance Report

Method Blank Results

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P328132

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328361

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328504

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328409

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328410

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328480

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328337

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328442

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328445

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P328122

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

Reference Method: SM 2120 B
Batch ID: P328137

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P328318

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

Reference Method: SM 2540 C-97
Batch ID: P328602

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P328652

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P328322

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P328791

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: P328361

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328504

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328504

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328409

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328410

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328480

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: P328337

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328442

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	94.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328445

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	90.4		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P328122

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

Reference Method: SM 2320 B-97
Batch ID: P328318

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	95 - 108

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P328322

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.1		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P328791

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911813	Chloride	96.5		P	90 - 110
1911827	Chloride	97.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328504

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911813	Sulfate	98.5		P	90 - 110
1911827	Sulfate	99.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911814	Ammonia-N	101	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328410

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911836	Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328337

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911776	NO2NO3-N	99.2	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328442

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911802	Total-P	94.4	94.3	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328445

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911948	Total-P	95.0	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P328122

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911557	O-Phosphate-P	99.1	99.0	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P328322

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911834	Fluoride	97.4	100	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P328791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911705	Organic Carbon	100		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P328132

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911770	Turbidity	3.02	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911813	Chloride	0.113	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P328504

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911813	Sulfate	0.872	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911814	Ammonia-N	1.31	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328410

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911836	Ammonia-N	0.841	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328480

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911836	Kjeldahl Nitrogen	4.06	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328337

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911776	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328442

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911802	Total-P	0.0795	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911948	Total-P	2.52	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P328122

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911557	O-Phosphate-P	0.101	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P328137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911833	Color (true)	1.70	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P328318

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911834	Total Alkalinity	0.0818	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P328602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911834	TDS	4.78	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P328322

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911834	Fluoride	1.92	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P328791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911705	Organic Carbon	0.122	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 Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A77592
Included Lab Sample IDs: 1911837, 1911838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.2	96.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A77595
Included Lab Sample IDs: 1911833, 1911834

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

Reference Method: SM 2120 B
Run ID: A77596
Included Lab Sample IDs: 1911833, 1911834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	106	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A77638
Included Lab Sample IDs: 1911833, 1911834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A77651

Included Lab Sample IDs: 1911833, 1911834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.9	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A77651

Included Lab Sample IDs: 1911833, 1911834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.6	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A77655

Included Lab Sample IDs: 1911835, 1911836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	98.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A77680

Included Lab Sample IDs: 1911835, 1911836

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A77695

Included Lab Sample IDs: 1911833, 1911834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	106	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A77708

Included Lab Sample IDs: 1911835, 1911836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	99.0	P/P	90 - 110
Total-P	99.5	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A77729

Included Lab Sample IDs: 1911835, 1911836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.9	93.2	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A77819

Included Lab Sample IDs: 1911835, 1911836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	97.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

* 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		MS
					LCS	SMP	
EPA 180.1 Rev. 2.0	Turbidity					3.02	
EPA 300.0 Rev. 2.1	Chloride	99.3	96.5	97.5		0.113	
	Sulfate	97.0	98.5	99.1		0.872	
EPA 350.1 Rev. 2.0	Ammonia-N	102	101	103			1.31
	Ammonia-N	103	103	102			0.841
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104					4.06
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	99.2	99.2			0.0
EPA 365.1 Rev. 2.0	Total-P	94.6	94.4	94.3			0.0795
	Total-P	90.4	95.0	98.6			2.52
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.0	99.1	99.0			0.101
SM 2120 B	Color (true)					1.70	
SM 2320 B-97	Total Alkalinity	102				0.0818	
SM 2540 C-97	TDS					4.78	
SM 4500 F-C-97	Fluoride	96.1	97.4	100			1.92
SM 5310 B-00	Organic Carbon	96.8	100				0.122

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1911833, 1911834
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1911833, 1911834
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1911833, 1911834
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1911835, 1911836
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1911835, 1911836
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1911835, 1911836
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1911835, 1911836
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1911837, 1911838
SM 2120 B / E31780	True Color measured at 450 nm	1911833, 1911834
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1911833, 1911834
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1911833, 1911834
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1911833, 1911834
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1911833, 1911834
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1911835, 1911836

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	07/07/2017			07/07/2017 15:38	DeAsia Armster	1911833, 1911834
EPA 300.0 Rev. 2.1	07/07/2017			07/12/2017	Ping Hua	1911833, 1911834
	07/07/2017			07/13/2017	Julia Storbeck	1911833, 1911834
EPA 350.1 Rev. 2.0	07/07/2017			07/12/2017	Sofia Elnemr	1911835, 1911836
EPA 351.2 Rev. 2.0	07/07/2017	07/13/2017	Adrian Shelby	07/14/2017	Joseph Suarez	1911835, 1911836
EPA 353.2 Rev. 2.0	07/07/2017			07/12/2017	Beverly Y. Sanders	1911835, 1911836
EPA 365.1 Rev. 2.0	07/07/2017	07/13/2017	Adrian Shelby	07/14/2017	Lipi Saha	1911835, 1911836
EPA 365.1 Rev. 2.0 dissolved	07/07/2017			07/07/2017 13:42	Anthony C. Onicha	1911837
	07/07/2017			07/07/2017 13:43	Anthony C. Onicha	1911838
SM 2120 B	07/07/2017			07/07/2017 16:23	Tanya Welborn	1911833
	07/07/2017			07/07/2017 16:24	Tanya Welborn	1911834
SM 2320 B-97	07/07/2017			07/11/2017	Dale L. Simmons	1911833, 1911834
SM 2540 C-97	07/07/2017			07/11/2017	Yijie Li	1911833, 1911834
SM 2540 D-97	07/07/2017			07/11/2017	Yijie Li	1911833, 1911834
SM 4500 F-C-97	07/07/2017			07/11/2017	Dale L. Simmons	1911833, 1911834
SM 5310 B-00	07/07/2017			07/18/2017	Sofia Elnemr	1911835, 1911836