

Chemical Analysis Report

CEN-DIST-2016-06-23-02

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

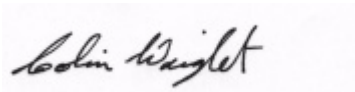
Event Description: **Lady Lake (2 A kits)**
Request ID: **RQ-2016-06-20-35**
Customer: **CEN-DIST**
Project ID: **SMP**

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: Colin Wright, Environmental Administrator

Date Certified: 18-JUL-2016 09:43

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light-colored rectangular 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: LADY LAKE NORTH LOBE NORTH OF CENTER Collection Date/Time: 06/22/2016 12:00

Field ID: G4CE0096

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1810655	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P306766	
	EPA 300.0 Rev. 2.1	Chloride	9.8		mg Cl/L	P307237	
		Sulfate	7.8		mg SO4/L	P307642	
	SM 2120 B	Color (true)	13		PCU	P306772	
	SM 2320 B-97	Total Alkalinity	0.92	I	mg CaCO3/L	P307280	
	SM 2540 C-97	TDS	42		mg/L	P307590	
	SM 2540 D-97	TSS	2	I	mg/L	P307451	
	SM 4500 F-C-97	Fluoride	0.060	I	mg F/L	P307285	
1810657	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P306933	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.65		mg N/L	P306858	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P307129	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P306915	
	SM 5310 B-00	Organic Carbon	7.1		mg C/L	P307219	
1810659	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P306757	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: LADY LAKE NORTH LOBE SOUTH OF CENTER Collection Date/Time: 06/22/2016 12:10

Field ID: G4CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1810656	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P306766	
	EPA 300.0 Rev. 2.1	Chloride	9.8		mg Cl/L	P307237	
		Sulfate	7.8		mg SO4/L	P307642	
	SM 2120 B	Color (true)	12		PCU	P306772	
	SM 2320 B-97	Total Alkalinity	0.96	I	mg CaCO3/L	P307280	
	SM 2540 C-97	TDS	46		mg/L	P307590	
	SM 2540 D-97	TSS	3	I	mg/L	P307451	
	SM 4500 F-C-97	Fluoride	0.060	I	mg F/L	P307285	
1810658	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P306933	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.72		mg N/L	P306858	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P307129	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P306915	
	SM 5310 B-00	Organic Carbon	7.3		mg C/L	P307219	
1810660	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P306758	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P306766

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P307237

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P307642

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P306933

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P306858

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P307129

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P306915

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P306757

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P306758

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

Reference Method: SM 2120 B
Batch ID: P306772

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P307280

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-97
Batch ID: P307590

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P307451

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P307285

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P307219

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: P307237

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: P307642

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P306933

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.7		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P306858

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P306858

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P307129

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P306915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.7		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P306757

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P306758

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

Reference Method: SM 2320 B-97
 Batch ID: P307280

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 4500 F-C-97
 Batch ID: P307285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P307219

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P307237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P307237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1810202	Chloride	99.8		P	90 - 110
1810671	Chloride	96.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P307642

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1811608	Sulfate	103		P	90 - 110
1811609	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P306933

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1810600	Ammonia-N	98.7	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P306858

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1810634	Kjeldahl Nitrogen	102	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P307129

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1810657	NO2NO3-N	99.0	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P306915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1810657	Total-P	101	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P306757

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1810601	O-Phosphate-P	98.4	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P306758

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1810660	O-Phosphate-P	98.2	98.9	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P307285

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1810299	Fluoride	99.0	99.0	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
Batch ID: P307219

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1810615	Organic Carbon	105	104	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P306766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810610	Turbidity	1.28	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P307237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810202	Chloride	0.542	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P307642

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1811608	Sulfate	2.09	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P306933

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810600	Ammonia-N	0.141	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P306858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810634	Kjeldahl Nitrogen	1.82	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P307129

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810657	NO2NO3-N	2.00	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P306915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810657	Total-P	1.97	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P306757

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810601	O-Phosphate-P	0.674	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P306758

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810660	O-Phosphate-P	0.710	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P306772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810633	Color (true)	0.280	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P307280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810299	Total Alkalinity	0.168	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P307590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810599	TDS	1.61	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P307285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810299	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P307219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1810615	Organic Carbon	0.453	Spike	P	0 - 20

Quality Assurance Report Precision

* 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: A70196

Included Lab Sample IDs: 1810659, 1810660

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.3	P/P	90 - 110
O-Phosphate-P	97.8	98.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A70197

Included Lab Sample IDs: 1810655, 1810656

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

Reference Method: SM 2120 B

Run ID: A70198

Included Lab Sample IDs: 1810655, 1810656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.2	P/P	90 - 115

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A70250

Included Lab Sample IDs: 1810657, 1810658

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.5	98.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A70266

Included Lab Sample IDs: 1810657, 1810658

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	96.0	P/P	90 - 110
Kjeldahl Nitrogen	96.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A70291

Included Lab Sample IDs: 1810657, 1810658

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.5	98.8	P/P	90 - 110
Total-P	98.8	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A70307
Included Lab Sample IDs: 1810657, 1810658

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A70313
Included Lab Sample IDs: 1810655, 1810656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.9	102	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A70359
Included Lab Sample IDs: 1810657, 1810658

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	97.3	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A70372
Included Lab Sample IDs: 1810655, 1810656

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

Reference Method: SM 4500 F-C-97
Run ID: A70372
Included Lab Sample IDs: 1810655, 1810656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.1	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A70443
Included Lab Sample IDs: 1810655, 1810656

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	103	107	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 SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				1.28	
EPA 300.0 Rev. 2.1	Chloride	99.3	99.8	96.0	0.542	
	Sulfate	103	103	104	2.09	
EPA 350.1 Rev. 2.0	Ammonia-N	96.7	98.7	98.6		0.141

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	102	99.2		
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	99.0	101		
EPA 365.1 Rev. 2.0	Total-P	99.7	101	103		
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	105	98.4	99.1		
	O-Phosphate-P	102	98.2	98.9		
	Color (true)					0.280
SM 2120 B	Total Alkalinity	103				0.168
SM 2320 B-97	TDS					1.61
SM 2540 C-97	Fluoride	98.9	99.0	99.0		
SM 4500 F-C-97	Organic Carbon	99.5	105	104		
SM 5310 B-00						0.0
						0.453

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1810655, 1810656
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1810655, 1810656
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1810655, 1810656
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1810657, 1810658
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1810657, 1810658
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1810657, 1810658
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1810657, 1810658
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1810659, 1810660
SM 2120 B / E31780	True Color measured at 450 nm	1810655, 1810656
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1810655, 1810656
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1810655, 1810656
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1810655, 1810656
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1810655, 1810656
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1810657, 1810658

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	06/23/2016			06/23/2016 15:44	Sima Feizi	1810655, 1810656
EPA 300.0 Rev. 2.1	06/23/2016			07/01/2016	Ping Hua	1810655, 1810656
	06/23/2016			07/08/2016	Ping Hua	1810655, 1810656
EPA 350.1 Rev. 2.0	06/23/2016			06/27/2016	Diana M. Turner	1810657, 1810658
EPA 351.2 Rev. 2.0	06/23/2016	06/27/2016	Sofia Elnemr	06/28/2016	Christopher Armour	1810657, 1810658
EPA 353.2 Rev. 2.0	06/23/2016			06/29/2016	Beverly Y. Sanders	1810657, 1810658
EPA 365.1 Rev. 2.0	06/23/2016	06/27/2016	Vijayalakshmi Reddy	06/28/2016	Lipi Saha	1810657, 1810658
EPA 365.1 Rev. 2.0 dissolved	06/23/2016			06/23/2016 14:12	Julia Storbeck	1810660
	06/23/2016			06/23/2016 15:14	Julia Storbeck	1810659
SM 2120 B	06/23/2016			06/23/2016 16:39	Rochelle Y Jackson	1810655
	06/23/2016			06/23/2016 16:40	Rochelle Y Jackson	1810656
SM 2320 B-97	06/23/2016			07/02/2016	Dale L. Simmons	1810655, 1810656
SM 2540 C-97	06/23/2016			06/27/2016	Sima Feizi	1810655, 1810656
SM 2540 D-97	06/23/2016			06/27/2016	Sima Feizi	1810655, 1810656
SM 4500 F-C-97	06/23/2016			07/02/2016	Dale L. Simmons	1810655, 1810656
SM 5310 B-00	06/23/2016			06/30/2016	Sofia Elnemr	1810657, 1810658