

Chemical Analysis Report

SO-DIST-2017-08-11-01

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

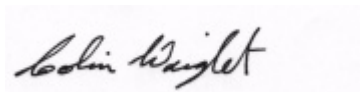
Event Description: **HA Sites**
Request ID: **RQ-2017-08-14-57**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901
Attn: Ben Paswater

For additional information please contact
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Certified by: Colin Wright, Program Administrator

Date Certified: 30-AUG-2017 10:40

A handwritten signature in black ink, appearing to read "Colin Wright", is placed over a light gray 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: Pirate Canal Middle

Collection Date/Time: 08/10/2017 12:50

Field ID: G2SD081017-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1920879	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P330134	
	EPA 300.0 Rev. 2.1	Chloride	10	A	mg Cl/L	P330287	
		Sulfate	1.2	A	mg SO4/L	P330284	
	SM 2120 B	Color (true)	140		PCU	P330119	
	SM 2320 B-97	Total Alkalinity	38		mg CaCO3/L	P330192	
	SM 2540 C-97	TDS	92		mg/L	P330582	
	SM 2540 D-97	TSS	3	I	mg/L	P330575	
	SM 4500 F-C-97	Fluoride	0.046	I	mg F/L	P330400	
1920882	EPA 350.1 Rev. 2.0	Ammonia-N	0.065		mg N/L	P330370	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P330185	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P330291	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P330213	
	SM 5310 B-00	Organic Carbon	16		mg C/L	P330412	
1920885	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P330120	

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.

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Field Blank

Collection Date/Time: 08/10/2017 13:00

Field ID: Field Blank

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1920880	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P330134	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P330287	
		Sulfate	0.20	U	mg SO4/L	P330284	
	SM 2120 B	Color (true)	2.5	U	PCU	P330119	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P330192	
	SM 2540 C-97	TDS	15	U	mg/L	P330582	
	SM 2540 D-97	TSS	2	U	mg/L	P330575	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P330400	
1920883	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P330370	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P330185	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P330291	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P330213	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P330412	
1920886	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P330120	

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.

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Ten Mile Canal @ Old US 41 Above Weir

Collection Date/Time: 08/10/2017 14:30

Field ID: G2SD081017-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Field ID: G2SD081017-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1920881	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P330134	
	EPA 300.0 Rev. 2.1	Chloride	51		mg Cl/L	P330287	
		Sulfate	5.9		mg SO4/L	P330284	
	SM 2120 B	Color (true)	110	A	PCU	P330119	
	SM 2320 B-97	Total Alkalinity	159		mg CaCO3/L	P330192	
	SM 2540 C-97	TDS	297		mg/L	P330582	
	SM 2540 D-97	TSS	3	I	mg/L	P330575	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P330400	
1920884	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P330370	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P330185	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.025		mg N/L	P330291	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P330213	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P330412	
1920887	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.011		mg P/L	P330120	

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.

SM 5310 B-00: 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: P330134

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P330284

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P330287

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P330370

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P330185

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: P330291

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330213

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330120

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

Reference Method: SM 2120 B
Batch ID: P330119

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P330192

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

Reference Method: SM 2540 C-97
Batch ID: P330582

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P330575

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P330400

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P330412

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: P330284

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330287

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330370

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: P330185

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330213

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330120

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

Reference Method: SM 2320 B-97
Batch ID: P330192

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

Reference Method: SM 4500 F-C-97
Batch ID: P330400

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	92 - 103

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P330412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	92.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P330284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1920879	Sulfate	93.5		P	90 - 110
1920897	Sulfate	93.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P330287

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1920879	Chloride	93.6		P	90 - 110
1920897	Chloride	94.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P330370

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1920839	Ammonia-N	101	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P330291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1920840	NO2NO3-N	108	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P330213

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1920884	Total-P	99.2	92.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P330120

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1920896	O-Phosphate-P	96.8	99.4	P/P	90 - 110

Reference Method: SM 4500 F-C-97
 Batch ID: P330400

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1920970	Fluoride	97.5	99.5	P/P	91 - 105

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P330134

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920865	Turbidity	3.20	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920879	Sulfate	2.97	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P330287

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920879	Chloride	0.509	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P330370

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920839	Ammonia-N	2.53	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P330185

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920895	Kjeldahl Nitrogen	4.36	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P330291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920840	NO2NO3-N	0.930	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P330213

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920884	Total-P	6.90	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P330120

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920896	O-Phosphate-P	2.65	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P330119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920881	Color (true)	0.864	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P330192

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920970	Total Alkalinity	0.0123	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P330582

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920492	TDS	7.73	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P330400

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920970	Fluoride	0.946	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P330412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1920626	Organic Carbon	0.235	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: SM 2120 B
Run ID: A78358
Included Lab Sample IDs: 1920879, 1920880, 1920881

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.3	101	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A78360
Included Lab Sample IDs: 1920885, 1920886, 1920887

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.8	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A78365

Included Lab Sample IDs: 1920879, 1920880, 1920881

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

Reference Method: SM 2320 B-97

Run ID: A78396

Included Lab Sample IDs: 1920879, 1920880, 1920881

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.8	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A78421

Included Lab Sample IDs: 1920879, 1920880, 1920881

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	99.4	P/P	90 - 110
Sulfate	99.2	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A78424

Included Lab Sample IDs: 1920882, 1920883, 1920884

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78446

Included Lab Sample IDs: 1920882, 1920883, 1920884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.3	98.6	P/P	90 - 110
Kjeldahl Nitrogen	98.6	98.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78450

Included Lab Sample IDs: 1920882, 1920883, 1920884

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A78451

Included Lab Sample IDs: 1920882, 1920883, 1920884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	102	P/P	90 - 110
Total-P	102	99.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A78465

Included Lab Sample IDs: 1920879, 1920880, 1920881

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

Reference Method: SM 5310 B-00

Run ID: A78471

Included Lab Sample IDs: 1920882, 1920883, 1920884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.0	95.8	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				3.20	
EPA 300.0 Rev. 2.1	Chloride	99.0	93.6 94.3		0.509	
	Sulfate	98.7	93.5 93.2		2.97	
EPA 350.1 Rev. 2.0	Ammonia-N	103	101 98.1			2.53
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103				4.36
EPA 353.2 Rev. 2.0	NO2NO3-N	106	108 107			0.930
EPA 365.1 Rev. 2.0	Total-P	96.9	99.2 92.2			6.90
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.2	96.8 99.4			2.65
SM 2120 B	Color (true)				0.864	
SM 2320 B-97	Total Alkalinity	103			0.0123	
SM 2540 C-97	TDS				7.73	
SM 4500 F-C-97	Fluoride	98.3	97.5 99.5			0.946
SM 5310 B-00	Organic Carbon	92.6				0.235

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1920879, 1920880, 1920881
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1920879, 1920880, 1920881
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1920879, 1920880, 1920881
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1920882, 1920883, 1920884
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1920882, 1920883, 1920884
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1920882, 1920883, 1920884
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1920882, 1920883, 1920884
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1920885, 1920886, 1920887

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2120 B / E31780	True Color measured at 450 nm	1920879, 1920880, 1920881
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1920879, 1920880, 1920881
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1920879, 1920880, 1920881
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1920879, 1920880, 1920881
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1920879, 1920880, 1920881
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1920882, 1920883, 1920884

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	08/11/2017			08/11/2017 15:25	DeAsia Armster	1920879, 1920880, 1920881
EPA 300.0 Rev. 2.1	08/11/2017			08/15/2017	Julia Storbeck	1920879, 1920880, 1920881
EPA 350.1 Rev. 2.0	08/11/2017			08/16/2017	Sofia Elnemr	1920882, 1920883, 1920884
EPA 351.2 Rev. 2.0	08/11/2017	08/15/2017	Adrian Shelby	08/16/2017	Joseph Suarez	1920882, 1920883, 1920884
EPA 353.2 Rev. 2.0	08/11/2017			08/16/2017	Beverly Y. Sanders	1920882, 1920883, 1920884
EPA 365.1 Rev. 2.0	08/11/2017	08/15/2017	Sima Feizi	08/16/2017	Lipi Saha	1920882, 1920883, 1920884
EPA 365.1 Rev. 2.0 dissolved	08/11/2017			08/11/2017 14:41	Anthony C. Onicha	1920885
	08/11/2017			08/11/2017 14:42	Anthony C. Onicha	1920886
	08/11/2017			08/11/2017 14:43	Anthony C. Onicha	1920887
SM 2120 B	08/11/2017			08/11/2017 15:48	Tanya Welborn	1920879
	08/11/2017			08/11/2017 15:49	Tanya Welborn	1920880
	08/11/2017			08/11/2017 15:50	Tanya Welborn	1920881
SM 2320 B-97	08/11/2017			08/14/2017	Dale L. Simmons	1920879, 1920880, 1920881
SM 2540 C-97	08/11/2017			08/14/2017	Yijie Li	1920879, 1920880, 1920881
SM 2540 D-97	08/11/2017			08/14/2017	Yijie Li	1920879, 1920880, 1920881
SM 4500 F-C-97	08/11/2017			08/17/2017	Dale L. Simmons	1920879, 1920880, 1920881
SM 5310 B-00	08/11/2017			08/17/2017	Ping Hua	1920882, 1920883, 1920884