

Chemical Analysis Report

NE-DIST-2016-11-02-01

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

Event Description: **Suwannee 1**
Request ID: **RQ-2016-10-24-15**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way
Suite 100
Jacksonville, FL 32256
Attn: Nicole Frederick

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 23-NOV-2016 13:03



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: FALLING CREEK ABOVE FALLS

Collection Date/Time: 11/01/2016 10:40

Field ID: 21010018 01012016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1846631	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P314430	
	EPA 300.0 Rev. 2.1	Chloride	10		mg Cl/L	P315354	
		Sulfate	0.76		mg SO4/L	P315359	
	SM 2120 B	Color (true)	500		PCU	P314411	
	SM 2320 B-97	Total Alkalinity	3.1		mg CaCO3/L	P314920	
	SM 2540 C-97	TDS	114		mg/L	P314954	
	SM 2540 D-97	TSS	2	I	mg/L	P315043	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P314923	
1846633	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P315022	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P315437	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.018		mg N/L	P314518	
	EPA 365.1 Rev. 2.0	Total-P	0.58		mg P/L	P314966	
	SM 5310 B-00	Organic Carbon	45		mg C/L	P314482	
1846635	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.50		mg P/L	P314418	

Ref. Method and Comment:

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

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

Sample Location: FALLING CREEK ABOVE FALLS dup

Collection Date/Time: 11/01/2016 10:45

Field ID: G1NE0236 01012016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1846632	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P314430	
	EPA 300.0 Rev. 2.1	Chloride	10		mg Cl/L	P315354	
		Sulfate	0.71		mg SO4/L	P315359	
	SM 2120 B	Color (true)	520		PCU	P314411	
	SM 2320 B-97	Total Alkalinity	3.1		mg CaCO3/L	P314920	
	SM 2540 C-97	TDS	119		mg/L	P314954	
	SM 2540 D-97	TSS	4	I	mg/L	P315043	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P314923	
1846634	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P315022	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P315437	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P314518	
	EPA 365.1 Rev. 2.0	Total-P	0.57		mg P/L	P314966	
	SM 5310 B-00	Organic Carbon	45		mg C/L	P314482	
1846636	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.51		mg P/L	P314418	

Ref. Method and Comment:

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

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

Quality Assurance Report

Method Blank Results

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P314430

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315354

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315359

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315022

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315437

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314518

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314966

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P314418

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

Reference Method: SM 2120 B
Batch ID: P314411

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P314920

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

Reference Method: SM 2540 C-97
Batch ID: P314954

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P315043

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P314923

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P314482

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: P315354

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315359

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: P315022

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315437

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: P315437

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: P314518

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314966

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: P314418

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

Reference Method: SM 2320 B-97
Batch ID: P314920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P314923

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.0		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P314482

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: P315354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846631	Chloride	101		P	90 - 110
1846684	Chloride	99.9		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846631	Sulfate	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846593	Ammonia-N	106	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315437

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846592	Kjeldahl Nitrogen	103	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314518

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846534	NO2NO3-N	97.6	96.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846653	Total-P	96.2	95.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P314418

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846596	O-Phosphate-P	96.9	98.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P314923

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1847277	Fluoride	100	101	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P314482

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1846502	Organic Carbon	95.7	97.4	P/P	85 - 115

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P314430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846650	Turbidity	1.87	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315354

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846684	Chloride	0.0659	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P315359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846684	Sulfate	0.385	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P315022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846593	Ammonia-N	0.356	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P315437

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846592	Kjeldahl Nitrogen	0.832	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P314518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846534	NO2NO3-N	0.920	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P314966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846653	Total-P	0.616	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P314418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846596	O-Phosphate-P	0.933	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P314411

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846589	Color (true)	7.06	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P314920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1847277	Total Alkalinity	0.459	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P314954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846590	TDS	2.86	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P314923

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1847277	Fluoride	0.494	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P314482

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1846502	Organic Carbon	1.56	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: A72580
Included Lab Sample IDs: 1846631, 1846632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.5	99.6	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A72581
Included Lab Sample IDs: 1846635, 1846636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.0	98.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A72583
Included Lab Sample IDs: 1846631, 1846632

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

Reference Method: SM 5310 B-00
Run ID: A72591
Included Lab Sample IDs: 1846633, 1846634

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.4	97.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A72599
Included Lab Sample IDs: 1846633, 1846634

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

Reference Method: SM 2320 B-97
Run ID: A72739
Included Lab Sample IDs: 1846631, 1846632

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

Reference Method: SM 4500 F-C-97
Run ID: A72739
Included Lab Sample IDs: 1846631, 1846632

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A72764
Included Lab Sample IDs: 1846633, 1846634

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A72783
Included Lab Sample IDs: 1846633, 1846634

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A72830
Included Lab Sample IDs: 1846631, 1846632

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
 Run ID: A72830
 Included Lab Sample IDs: 1846631, 1846632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	100	P/P	90 - 110
Sulfate	96.7	98.8	P/P	90 - 110
Sulfate	98.5	96.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Run ID: A72920
 Included Lab Sample IDs: 1846633, 1846634

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	103	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				1.87	
EPA 300.0 Rev. 2.1	Chloride	101	99.9	101	0.0659	
	Sulfate	97.0	97.5		0.385	
EPA 350.1 Rev. 2.0	Ammonia-N	104	106	105		0.356
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	103	102		0.832
EPA 353.2 Rev. 2.0	NO2NO3-N	108	97.6	96.6		0.920
EPA 365.1 Rev. 2.0	Total-P	96.9	96.2	95.5		0.616
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	96.9	98.1		0.933
SM 2120 B	Color (true)				7.06	
SM 2320 B-97	Total Alkalinity	101			0.459	
SM 2540 C-97	TDS				2.86	
SM 4500 F-C-97	Fluoride	97.0	100	101		0.494
SM 5310 B-00	Organic Carbon	99.5	95.7	97.4		1.56

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1846631, 1846632
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1846631, 1846632
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1846631, 1846632
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1846633, 1846634
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1846633, 1846634
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1846633, 1846634
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1846633, 1846634

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1846635, 1846636
SM 2120 B / E31780	True Color measured at 450 nm	1846631, 1846632
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1846631, 1846632
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1846631, 1846632
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1846631, 1846632
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1846631, 1846632
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1846633, 1846634

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	11/02/2016			11/02/2016 15:45	Julie Michelle Frank	1846631, 1846632
EPA 300.0 Rev. 2.1	11/02/2016			11/17/2016	Ping Hua	1846631, 1846632
EPA 350.1 Rev. 2.0	11/02/2016			11/10/2016	Julie Michelle Frank	1846633, 1846634
EPA 351.2 Rev. 2.0	11/02/2016	11/18/2016	Adrian Shelby	11/21/2016	Joseph Suarez	1846633, 1846634
EPA 353.2 Rev. 2.0	11/02/2016			11/03/2016	Beverly Y. Sanders	1846633, 1846634
EPA 365.1 Rev. 2.0	11/02/2016	11/10/2016	Adrian Shelby	11/14/2016	Lipi Saha	1846633, 1846634
EPA 365.1 Rev. 2.0 dissolved	11/02/2016			11/02/2016 15:58	Julia Storbeck	1846635
	11/02/2016			11/02/2016 16:00	Julia Storbeck	1846636
SM 2120 B	11/02/2016			11/02/2016 15:52	Julie Michelle Frank	1846631, 1846632
SM 2320 B-97	11/02/2016			11/09/2016	Dale L. Simmons	1846631, 1846632
SM 2540 C-97	11/02/2016			11/04/2016	Yijie Li	1846631, 1846632
SM 2540 D-97	11/02/2016			11/04/2016	Yijie Li	1846631, 1846632
SM 4500 F-C-97	11/02/2016			11/09/2016	Dale L. Simmons	1846631, 1846632
SM 5310 B-00	11/02/2016			11/02/2016	Julie Michelle Frank	1846633, 1846634