

Chemical Analysis Report

CEN-DIST-2017-12-21-02

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

Event Description: **Deep Creek**
Request ID: **RQ-2017-12-25-09**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 05-JAN-2018 11:15



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: Deep Creek @ 170m US of Spring Garden Creek

Collection Date/Time: 12/20/2017 13:55

Field ID: G2CE0083

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1955570	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P337372	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P337529	
		Sulfate	0.54		mg SO4/L	P337533	
	SM 2120 B	Color (true)	910		PCU	P337337	
	SM 2320 B-97	Total Alkalinity	5.3		mg CaCO3/L	P337489	
	SM 2540 C-97	TDS	200		mg/L	P337524	
	SM 2540 D-97	TSS	2	U	mg/L	P337458	
	SM 4500 F-C-97	Fluoride	0.052	I	mg F/L	P337492	
1955572	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P337691	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.0		mg N/L	P337536	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P337408	
	EPA 365.1 Rev. 2.0	Total-P	0.046		mg P/L	P337420	
	SM 5310 B-00	Organic Carbon	73		mg C/L	P337558	
1955574	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.022		mg P/L	P337369	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low 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: Spring Garden Lake @ 800m N of Center

Collection Date/Time: 12/20/2017 14:20

Field ID: G2CE0117

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1955571	EPA 180.1 Rev. 2.0	Turbidity	5.1		NTU	P337372	
	EPA 300.0 Rev. 2.1	Chloride	270		mg Cl/L	P337529	
		Sulfate	39		mg SO4/L	P337533	
	SM 2120 B	Color (true)	73		PCU	P337337	
	SM 2320 B-97	Total Alkalinity	124		mg CaCO3/L	P337489	
	SM 2540 C-97	TDS	618		mg/L	P337524	
	SM 2540 D-97	TSS	10	I	mg/L	P337458	
	SM 4500 F-C-97	Fluoride	0.097	I	mg F/L	P337492	
1955573	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P337691	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P337404	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P337408	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P337420	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P337558	
1955575	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P337369	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low 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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P337372

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P337529

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P337533

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P337691

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P337404

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P337536

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P337408

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P337420

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P337369

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2120 B
 Batch ID: P337337

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
 Batch ID: P337489

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

Reference Method: SM 2540 C-97
 Batch ID: P337524

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
 Batch ID: P337458

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
 Batch ID: P337492

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
 Batch ID: P337558

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: P337529

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P337533

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P337691

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P337691

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P337404

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P337536

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	93.3		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P337408

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P337420

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P337369

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.3		P	90 - 110

Reference Method: SM 2320 B-97
Batch ID: P337489

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

Reference Method: SM 4500 F-C-97
Batch ID: P337492

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.2		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P337558

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	92.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P337529

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1955611	Chloride	103		P	90 - 110
1955793	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P337533

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1955611	Sulfate	100		P	90 - 110
1955793	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P337691

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1955490	Ammonia-N	95.7	96.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P337404

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1955490	Kjeldahl Nitrogen	89.3	86.2	F/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P337536

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1956227	Kjeldahl Nitrogen	92.7	95.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P337408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1955532	NO2NO3-N	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P337420

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1955615	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P337369

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1955533	O-Phosphate-P	101	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P337492

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1955487	Fluoride	94.9	96.1	P/P	91 - 105

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P337372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955538	Turbidity	5.71	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P337529

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955611	Chloride	1.02	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P337533

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955611	Sulfate	1.21	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P337691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955490	Ammonia-N	0.434	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P337404

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955490	Kjeldahl Nitrogen	2.79	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P337536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1956227	Kjeldahl Nitrogen	2.60	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P337408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955532	NO2NO3-N	0.406	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P337420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955615	Total-P	1.15	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P337369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955533	O-Phosphate-P	0.688	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P337337

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955585	Color (true)	2.79	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P337489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955487	Total Alkalinity	0.353	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P337524

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955600	TDS	0.259	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P337492

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955487	Fluoride	0.953	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P337558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1955539	Organic Carbon	0.513	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: A81063
Included Lab Sample IDs: 1955570, 1955571

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A81079

Included Lab Sample IDs: 1955574, 1955575

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A81080

Included Lab Sample IDs: 1955570, 1955571

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A81092

Included Lab Sample IDs: 1955572, 1955573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81114

Included Lab Sample IDs: 1955573

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81121

Included Lab Sample IDs: 1955572

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A81127

Included Lab Sample IDs: 1955573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	101	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A81134

Included Lab Sample IDs: 1955570, 1955571

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.5	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A81134

Included Lab Sample IDs: 1955570, 1955571

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A81150
Included Lab Sample IDs: 1955570, 1955571

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	106	101	P/P	90 - 110
Sulfate	106	101	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A81160
Included Lab Sample IDs: 1955572, 1955573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	96.2	P/P	90 - 110
Organic Carbon	96.2	95.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A81180
Included Lab Sample IDs: 1955572

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.1	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A81222
Included Lab Sample IDs: 1955572, 1955573

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

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				5.71	
EPA 300.0 Rev. 2.1	Chloride	103	103 105		1.02	
	Sulfate	104	100 103		1.21	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	95.7 96.2			0.434
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	89.3 86.2			2.79
	Kjeldahl Nitrogen	93.3	92.7 95.7			2.60
EPA 353.2 Rev. 2.0	NO2NO3-N	103	103 104			0.406
EPA 365.1 Rev. 2.0	Total-P	104	103 104			1.15
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.3	101 102			0.688
SM 2120 B	Color (true)				2.79	
SM 2320 B-97	Total Alkalinity	102			0.353	
SM 2540 C-97	TDS				0.259	
SM 4500 F-C-97	Fluoride	94.2	94.9 96.1			0.953
SM 5310 B-00	Organic Carbon	92.8				0.513

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1955570, 1955571
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1955570, 1955571
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1955570, 1955571
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1955572, 1955573
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1955572, 1955573
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1955572, 1955573
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1955572, 1955573
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1955574, 1955575
SM 2120 B / E31780	True Color measured at 450 nm	1955570, 1955571
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1955570, 1955571
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1955570, 1955571
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1955570, 1955571
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1955570, 1955571
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1955572, 1955573

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	12/21/2017			12/21/2017 16:10	DeAsia Armster	1955570, 1955571
EPA 300.0 Rev. 2.1	12/21/2017			12/26/2017	Julia Storbeck	1955570, 1955571
EPA 350.1 Rev. 2.0	12/21/2017			12/29/2017	Sofia Elnemr	1955572, 1955573
EPA 351.2 Rev. 2.0	12/21/2017	12/22/2017	Adrian Shelby	12/26/2017	Joseph Suarez	1955573
	12/21/2017	12/28/2017	Adrian Shelby	12/29/2017	Joseph Suarez	1955572
EPA 353.2 Rev. 2.0	12/21/2017			12/22/2017	Lipi Saha	1955572, 1955573
EPA 365.1 Rev. 2.0	12/21/2017	12/22/2017	Sima Feizi	12/26/2017	Lipi Saha	1955572, 1955573
EPA 365.1 Rev. 2.0 dissolved	12/21/2017			12/21/2017 14:17	Megan Treadwell	1955574, 1955575
SM 2120 B	12/21/2017			12/21/2017 12:44	Julia Storbeck	1955571
	12/21/2017			12/21/2017 12:48	Julia Storbeck	1955570
SM 2320 B-97	12/21/2017			12/27/2017	Dale L. Simmons	1955570, 1955571
SM 2540 C-97	12/21/2017			12/22/2017	DeAsia Armster	1955570, 1955571
SM 2540 D-97	12/21/2017			12/22/2017	DeAsia Armster	1955570, 1955571
SM 4500 F-C-97	12/21/2017			12/27/2017	Dale L. Simmons	1955570, 1955571
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