

Chemical Analysis Report

CEN-DIST-2019-05-14-01

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

Event Description: **Ingram X2 / Felter / Lotta / Panther X3**

Request ID: **RQ-2019-05-13-36**

Customer: **CEN-DIST**

Project ID: **SMP**

Send Reports to:

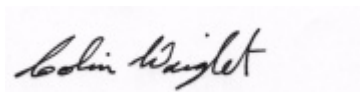
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Certified by: Colin Wright, Program Administrator

Date Certified: 29-MAY-2019 16:11



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 by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Lake Lotta @ Center of Southern Lobe

Collection Date/Time: 05/13/2019 09:35

Field ID: G2CE0093

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2085870	EPA 180.1 Rev. 2.0	Turbidity	4.5		NTU	P363956	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P364028	
		Sulfate	9.4		mg SO4/L	P364030	
	SM 2120 B	Color (true)	47		PCU	P363940	
	SM 2320 B-97	Total Alkalinity	52		mg CaCO3/L	P364261	
	SM 2540 C-97	TDS	95		mg/L	P364389	
	SM 2540 D-97	TSS	5	I	mg/L	P364395	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P364266	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P364152	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P364294	
2085872	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P364213	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P364186	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P364410	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P363937	
	dissolved						

Ref. Method and Comment:

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

Sample Location: Lake Felter @ Center

Collection Date/Time: 05/13/2019 10:37

Field ID: G1CE0042

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2085871	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P363956	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P364028	
		Sulfate	1.1		mg SO4/L	P364030	
	SM 2120 B	Color (true)	82	A	PCU	P363941	
	SM 2320 B-97	Total Alkalinity	21		mg CaCO3/L	P364261	
	SM 2540 C-97	TDS	98		mg/L	P364389	
	SM 2540 D-97	TSS	2	I	mg/L	P364395	
	SM 4500 F-C-97	Fluoride	0.079	I	mg F/L	P364266	
2085873	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P364152	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P364294	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P364213	
	EPA 365.1 Rev. 2.0	Total-P	0.014		mg P/L	P364186	
	SM 5310 B-00	Organic Carbon	27		mg C/L	P364410	
2085875	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P363937	

Ref. Method and Comment:

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P363956

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364028

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364030

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364152

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364294

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364213

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364186

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P363937

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

Reference Method: SM 2120 B
Batch ID: P363940

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B
Batch ID: P363941

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P364261

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

Reference Method: SM 2540 C-97
Batch ID: P364389

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P364395

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P364266

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P364410

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: P364028

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: P364030

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364152

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364294

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.1		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364213

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364186

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P363937

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

Reference Method: SM 2120 B
Batch ID: P363940

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2120 B
Batch ID: P363941

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.4		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P364261

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P364266

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P364410

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085618	Chloride	99.2		P	90 - 110
2085821	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364030

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085618	Sulfate	99.4		P	90 - 110
2085821	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364152

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085799	Ammonia-N	104	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364294

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085826	Kjeldahl Nitrogen	90.4	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364213

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085826	NO2NO3-N	100	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085819	Total-P	97.3	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P363937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085941	O-Phosphate-P	94.0	95.8	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P364266

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085804	Fluoride	98.8	101	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P364410

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085898	Organic Carbon	99.2	97.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P363956

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085804	Turbidity	0.517	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085821	Chloride	10.4	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364030

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085821	Sulfate	9.43	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364152

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085799	Ammonia-N	1.12	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364294

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085826	Kjeldahl Nitrogen	6.20	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364213

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085826	NO2NO3-N	1.40	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085819	Total-P	4.22	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P363937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085941	O-Phosphate-P	1.40	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
 Batch ID: P363940

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085798	Color (true)	1.86	Sample	P	0 - 20

Reference Method: SM 2120 B
 Batch ID: P363941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085871	Color (true)	1.38	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P364261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085804	Total Alkalinity	0.262	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
 Batch ID: P364389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085804	TDS	5.69	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P364266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085804	Fluoride	1.41	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
 Batch ID: P364410

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085898	Organic Carbon	1.05	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
 Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A91404

Included Lab Sample IDs: 2085870, 2085871

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A91415

Included Lab Sample IDs: 2085874, 2085875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	99.5	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A91416

Included Lab Sample IDs: 2085870, 2085871

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	90 - 115
Color (true)	101	101	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A91434

Included Lab Sample IDs: 2085870, 2085871

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A91506

Included Lab Sample IDs: 2085872, 2085873

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	106	107	P/P	90 - 110
Ammonia-N	107	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A91529

Included Lab Sample IDs: 2085872, 2085873

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: A91544

Included Lab Sample IDs: 2085870, 2085871

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A91544

Included Lab Sample IDs: 2085870, 2085871

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A91570

Included Lab Sample IDs: 2085872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.7	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A91572

Included Lab Sample IDs: 2085873

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

Reference Method: SM 5310 B-00

Run ID: A91605

Included Lab Sample IDs: 2085872, 2085873

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A91625

Included Lab Sample IDs: 2085872, 2085873

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	101	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	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					0.517	
EPA 300.0 Rev. 2.1	Chloride	99.3	101	99.2		10.4	
	Sulfate	100	100	99.4		9.43	
EPA 350.1 Rev. 2.0	Ammonia-N	102	104	105			1.12
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.1	90.4	100			6.20
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	100	98.4			1.40
EPA 365.1 Rev. 2.0	Total-P	100	97.3	102			4.22
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	94.0	95.8			1.40
SM 2120 B	Color (true)	100				1.86	
	Color (true)	98.4				1.38	
SM 2320 B-97	Total Alkalinity	102				0.262	
SM 2540 C-97	TDS					5.69	
SM 4500 F-C-97	Fluoride	97.9	98.8	101			1.41
SM 5310 B-00	Organic Carbon	96.8	99.2	97.4			1.05

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2085870, 2085871
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2085870, 2085871
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2085870, 2085871
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2085872, 2085873
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2085872, 2085873
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2085872, 2085873
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2085872, 2085873
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2085874, 2085875
SM 2120 B / E31780	True Color measured at 450 nm	2085870, 2085871
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2085870, 2085871
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2085870, 2085871
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2085870, 2085871
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2085870, 2085871
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2085872, 2085873

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	05/14/2019			05/14/2019 16:44	Sima Feizi	2085870, 2085871
EPA 300.0 Rev. 2.1	05/14/2019			05/16/2019 00:57	Lipi Saha	2085870
	05/14/2019			05/16/2019 01:10	Lipi Saha	2085871
EPA 350.1 Rev. 2.0	05/14/2019			05/16/2019 12:25	Ping Hua	2085872
	05/14/2019			05/16/2019 12:33	Ping Hua	2085873
EPA 351.2 Rev. 2.0	05/14/2019	05/21/2019 13:07	Jhamieka S. Greenwood	05/23/2019 12:23	Joseph Suarez	2085872
	05/14/2019	05/21/2019 13:07	Jhamieka S. Greenwood	05/23/2019 12:25	Joseph Suarez	2085873
EPA 353.2 Rev. 2.0	05/14/2019			05/20/2019 10:39	Beverly Y. Sanders	2085872
	05/14/2019			05/20/2019 10:40	Beverly Y. Sanders	2085873
EPA 365.1 Rev. 2.0	05/14/2019	05/20/2019 08:30	Joseph Suarez	05/21/2019 16:02	Rosalyn Ballman	2085872
	05/14/2019	05/20/2019 08:30	Joseph Suarez	05/21/2019 18:30	Rosalyn Ballman	2085873
EPA 365.1 Rev. 2.0 dissolved	05/14/2019			05/14/2019 14:40	Jhamieka S. Greenwood	2085874
	05/14/2019			05/14/2019 14:41	Jhamieka S. Greenwood	2085875
SM 2120 B	05/14/2019			05/14/2019 15:34	Madeline Funaro	2085870
	05/14/2019			05/14/2019 15:39	Madeline Funaro	2085871
SM 2320 B-97	05/14/2019			05/18/2019 20:13	Dale L. Simmons	2085870
	05/14/2019			05/18/2019 20:25	Dale L. Simmons	2085871
SM 2540 C-97	05/14/2019			05/16/2019 15:31	Yijie Li	2085870, 2085871
SM 2540 D-97	05/14/2019			05/16/2019 15:31	Yijie Li	2085870, 2085871
SM 4500 F-C-97	05/14/2019			05/18/2019 20:13	Dale L. Simmons	2085870
	05/14/2019			05/18/2019 20:25	Dale L. Simmons	2085871
SM 5310 B-00	05/14/2019			05/21/2019 06:53	Julia Storbeck	2085872
	05/14/2019			05/21/2019 07:07	Julia Storbeck	2085873