

Chemical Analysis Report

SO-DIST-2021-05-27-02

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

Event Description: **2021 SMP : Okee Canals**
Request ID: **RQ-2021-05-24-15**
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 33901-3381
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 17-JUN-2021 16:50

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored 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 groups are included in this report: Nutrients and Pesticides.

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: Indian Prairie Canal @ SR 70

Collection Date/Time: 05/26/2021 11:10

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2250662	EPA 180.1 Rev. 2.0	Turbidity	14		NTU	P398943	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P399476	
		Sulfate	21		mg SO4/L	P399479	
		Color (true)	68		PCU	P398933	
	SM 2320 B-2011	Total Alkalinity	22		mg CaCO3/L	P399026	
	SM 2540 C-2011	TDS	106		mg/L	P399416	
	SM 2540 D-2011	TSS	26	I	mg/L	P399104	
	SM 4500 F-C-2011	Fluoride	0.077	I	mg F/L	P399028	
2250663	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P399371	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P399037	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P398985	
	EPA 365.1 Rev. 2.0	Total-P	0.095		mg P/L	P398974	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P399096	
2250664	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P398939	
2250678	EPA 8276	Chlordane	5.2	U	ng/L	P398912	
		Toxaphene	31	U	ng/L	P398912	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated because of sample matrix interference.

Sample Location: C-41 A @ SR 70

Collection Date/Time: 05/26/2021 11:40

Field ID: G4SD0175

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2250657	EPA 180.1 Rev. 2.0	Turbidity	4.8		NTU	P398943	
	EPA 300.0 Rev. 2.1	Chloride	29		mg Cl/L	P399476	
		Sulfate	27		mg SO4/L	P399479	
	SM 2120 B-2011	Color (true)	59	A	PCU	P398933	
	SM 2320 B-2011	Total Alkalinity	32		mg CaCO3/L	P399026	
	SM 2540 C-2011	TDS	171		mg/L	P399416	
	SM 2540 D-2011	TSS	6	I	mg/L	P399104	
	SM 4500 F-C-2011	Fluoride	0.094	I	mg F/L	P399028	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P399371	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P399037	
2250659	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P398985	
	EPA 365.1 Rev. 2.0	Total-P	0.042		mg P/L	P398974	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P399096	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P398939	
	dissolved						

Ref. Method and Comment:

SM 2540 D-2011: 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: P398943

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399476

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399479

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399371

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399037

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398985

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398974

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398939

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

Reference Method: EPA 8276
Batch ID: P398912

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P398933

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P399026

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

Reference Method: SM 2540 C-2011
Batch ID: P399416

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P399104

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P399028

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P399096

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: P399476

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399479

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399371

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399037

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398985

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: P398974

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: P398939

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

Reference Method: EPA 8276
Batch ID: P398912

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	83.0	78.5	P/P	56 - 117
Toxaphene	90.8	88.7	P/P	45 - 116

Reference Method: SM 2120 B-2011
Batch ID: P398933

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.2		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P399026

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

Reference Method: SM 4500 F-C-2011
Batch ID: P399028

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P399096

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399476

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250461	Chloride	92.8		P	90 - 110
2250718	Chloride	97.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250461	Sulfate	91.8		P	90 - 110
2250718	Sulfate	94.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399371

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250594	Ammonia-N	96.2	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250597	Kjeldahl Nitrogen	94.4	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250659	NO2NO3-N	99.4	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250551	Total-P	104	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250720	O-Phosphate-P	101	100	P/P	90 - 110

Reference Method: EPA 8276
Batch ID: P398912

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250763	Chlordane	103	83.9	P/P	47 - 128
2250763	Toxaphene	100	96.6	P/P	11 - 163

Reference Method: SM 4500 F-C-2011
Batch ID: P399028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250731	Fluoride	97.9	96.9	P/P	92 - 107

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P399096

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2251053	Organic Carbon	101	101	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P398943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250593	Turbidity	3.25	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399476

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250461	Chloride	0.637	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250461	Sulfate	1.61	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250594	Ammonia-N	2.77	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250597	Kjeldahl Nitrogen	8.25	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250659	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250551	Total-P	3.07	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250720	O-Phosphate-P	0.992	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P398912

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250763	Chlordane	20.3	Spike	P	0 - 30
2250763	Toxaphene	3.82	Spike	P	0 - 30
LFB	Chlordane	5.54	LCS	P	0 - 30
LFB	Toxaphene	2.31	LCS	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P398933

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250657	Color (true)	1.02	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P399026

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250731	Total Alkalinity	0.673	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P399416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250596	TDS	7.11	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P399028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250731	Fluoride	0.929	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P399096

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2251053	Organic Carbon	0.461	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2250678
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	68.9	P	29 - 92.0
EPA 8276	PCNB	68.0	P	43 - 134

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A105738

Included Lab Sample IDs: 2250657, 2250662

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.0	99.4	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A105742

Included Lab Sample IDs: 2250661, 2250664

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.5	99.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A105744

Included Lab Sample IDs: 2250657, 2250662

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: A105761

Included Lab Sample IDs: 2250659, 2250663

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A105778

Included Lab Sample IDs: 2250663

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

Reference Method: SM 2320 B-2011

Run ID: A105786

Included Lab Sample IDs: 2250657, 2250662

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.7	93.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A105786

Included Lab Sample IDs: 2250657, 2250662

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A105792

Included Lab Sample IDs: 2250659

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A105818

Included Lab Sample IDs: 2250659, 2250663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A105840

Included Lab Sample IDs: 2250659, 2250663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.2	104	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A105941

Included Lab Sample IDs: 2250678

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.5		P	80 - 120
Toxaphene	105		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A105942

Included Lab Sample IDs: 2250659, 2250663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A105956

Included Lab Sample IDs: 2250657, 2250662

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.5	99.8	P/P	90 - 110
Sulfate	98.7	99.4	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						3.25	
EPA 300.0 Rev. 2.1	Chloride	97.3		92.8	97.2		0.637	
	Sulfate	96.2		91.8	94.9		1.61	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8		96.2	99.4			2.77
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106		94.4	108			8.25
EPA 353.2 Rev. 2.0	NO2NO3-N	102		99.4	99.4			0.0
EPA 365.1 Rev. 2.0	Total-P	104		104	101			3.07
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		101	100			0.992
EPA 8276	Chlordane	83.0	78.5	103	83.9	5.54		20.3
	Toxaphene	90.8	88.7	100	96.6	2.31		3.82
SM 2120 B-2011	Color (true)	98.2					1.02	
SM 2320 B-2011	Total Alkalinity	101					0.673	
SM 2540 C-2011	TDS						7.11	
SM 4500 F-C-2011	Fluoride	99.2		97.9	96.9			0.929
SM 5310 B-2011	Organic Carbon	97.6		101	101			0.461

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2250657, 2250662
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2250657, 2250662
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2250657, 2250662
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2250659, 2250663
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2250659, 2250663
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2250659, 2250663
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2250659, 2250663
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2250661, 2250664
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2250678
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2250657, 2250662
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2250657, 2250662
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2250657, 2250662
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2250657, 2250662
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2250657, 2250662
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2250659, 2250663

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	05/27/2021			05/27/2021 15:49	Yen Ta	2250657, 2250662
EPA 300.0 Rev. 2.1	05/27/2021			06/09/2021 13:18	Lipi Saha	2250657
	05/27/2021			06/09/2021 13:30	Lipi Saha	2250662
EPA 350.1 Rev. 2.0	05/27/2021			06/08/2021 13:36	Roberta Tatti	2250659
	05/27/2021			06/08/2021 13:37	Roberta Tatti	2250663
EPA 351.2 Rev. 2.0	05/27/2021	06/01/2021 13:29	Benjamin T. Nordmann	06/02/2021 16:34	Virginia P. Brown	2250659
	05/27/2021	06/01/2021 13:29	Benjamin T. Nordmann	06/02/2021 16:35	Virginia P. Brown	2250663
EPA 353.2 Rev. 2.0	05/27/2021			05/28/2021 10:28	Beverly Y. Sanders	2250659
	05/27/2021			05/28/2021 10:37	Beverly Y. Sanders	2250663
EPA 365.1 Rev. 2.0	05/27/2021	05/28/2021 13:30	Yen Ta	05/28/2021 16:39	Shengyu Ding	2250663
	05/27/2021	05/28/2021 13:30	Yen Ta	06/01/2021 14:32	Shengyu Ding	2250659
EPA 365.1 Rev. 2.0 dissolved	05/27/2021			05/27/2021 15:48	Blanca Fach	2250661
	05/27/2021			05/27/2021 15:49	Blanca Fach	2250664
EPA 8276	05/27/2021	05/28/2021 08:00	Fe-Val Siddell	06/08/2021 04:06	Chiran X. Ghimire	2250678
SM 2120 B-2011	05/27/2021			05/27/2021 15:12	Sarah A Nixon	2250657
	05/27/2021			05/27/2021 15:15	Sarah A Nixon	2250662
SM 2320 B-2011	05/27/2021			05/28/2021 22:33	Dale L. Simmons	2250657
	05/27/2021			05/28/2021 22:46	Dale L. Simmons	2250662
SM 2540 C-2011	05/27/2021			06/01/2021 14:02	Yijie Li	2250657, 2250662
SM 2540 D-2011	05/27/2021			06/01/2021 14:02	Yijie Li	2250657, 2250662
SM 4500 F-C-2011	05/27/2021			05/28/2021 22:33	Dale L. Simmons	2250657
	05/27/2021			05/28/2021 22:46	Dale L. Simmons	2250662
SM 5310 B-2011	05/27/2021			06/02/2021 03:16	Madeline Gruver	2250659
	05/27/2021			06/02/2021 03:29	Madeline Gruver	2250663