

Chemical Analysis Report

CEN-DIST-2017-03-03-01

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

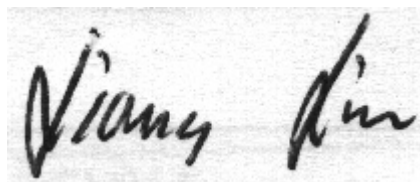
Event Description: **Mizner's / UnDitch 2666 + HA**
Request ID: **RQ-2017-02-27-59**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Mike Linger

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: Liang Lin, Environmental Administrator

Date Certified: 29-MAR-2017 10:51

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 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: Unnamed Ditch @ 100m US of Madeline Avenue

Collection Date/Time: 03/02/2017 11:25

Field ID: G5CE0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1877455	EPA 180.1 Rev. 2.0	Turbidity	1.3	A	NTU	P320936	
	EPA 300.0 Rev. 2.1	Chloride	57		mg Cl/L	P321677	
		Sulfate	8.5		mg SO4/L	P321680	
	SM 2120 B	Color (true)	89		PCU	P320935	
	SM 2320 B-97	Total Alkalinity	233		mg CaCO3/L	P321423	
	SM 2540 C-97	TDS	381		mg/L	P321392	
	SM 2540 D-97	TSS	3	I	mg/L	P321405	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P321427	
1877457	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P321262	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P320986	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P321353	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P321069	
	SM 5310 B-00	Organic Carbon	21		mg C/L	P320954	
1877459	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P320944	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low 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: Mizner's Branch @ Main Trail Road

Collection Date/Time: 03/02/2017 13:15

Field ID: G5CE0093

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1877456	EPA 180.1 Rev. 2.0	Turbidity	0.70		NTU	P320936	
	EPA 300.0 Rev. 2.1	Chloride	79		mg Cl/L	P321677	
		Sulfate	11		mg SO4/L	P321680	
	SM 2120 B	Color (true)	47	A	PCU	P320935	
	SM 2320 B-97	Total Alkalinity	188		mg CaCO3/L	P321423	
	SM 2540 C-97	TDS	372	A	mg/L	P321392	
	SM 2540 D-97	TSS	4	I	mg/L	P321405	
	SM 4500 F-C-97	Fluoride	0.063	I	mg F/L	P321427	
1877458	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P321055	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.56		mg N/L	P320986	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.33		mg N/L	P321353	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P321069	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P320954	
1877460	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P320944	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low 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: P320936

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321677

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321680

Component	Result	Code	Units
Sulfate	0.20	U	mg SO ₄ /L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321055

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321262

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320986

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321353

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321069

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320944

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: P320935

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P321423

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

Reference Method: SM 2540 C-97
Batch ID: P321392

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P321405

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P321427

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P320954

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: P321677

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321680

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321055

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: P321055

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321262

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: P320986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	107		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321353

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: P321069

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320944

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

Reference Method: SM 2320 B-97
Batch ID: P321423

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P321427

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P320954

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	100		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321677

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877352	Chloride	104		P	90 - 110
1877490	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P321680

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877352	Sulfate	101		P	90 - 110
1877490	Sulfate	92.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877458	Ammonia-N	101	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877692	Ammonia-N	106	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P320986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877357	Kjeldahl Nitrogen	98.4	99.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321353

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877466	NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321069

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877356	Total-P	101	99.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P320944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877631	O-Phosphate-P	95.9	96.7	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Batch ID: P321427

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877670	Fluoride	100	100	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P320954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1877390	Organic Carbon	99.4	99.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P320936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877455	Turbidity	11.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P321677

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877490	Chloride	1.24	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P321055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877458	Ammonia-N	0.519	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P321262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877692	Ammonia-N	3.28	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P320986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877357	Kjeldahl Nitrogen	0.557	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P321353

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877466	NO2NO3-N	0.935	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P321069

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877356	Total-P	0.956	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P320944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877631	O-Phosphate-P	0.737	Spike	P	0 - 20

Reference Method: SM 2120 B

Batch ID: P320935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877456	Color (true)	6.04	Sample	P	0 - 20

Reference Method: SM 2320 B-97

Batch ID: P321423

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877670	Total Alkalinity	0.0681	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97

Batch ID: P321392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877456	TDS	8.34	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97

Batch ID: P321427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877670	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00

Batch ID: P320954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1877390	Organic Carbon	0.388	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

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A74881

Included Lab Sample IDs: 1877455, 1877456

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.5	98.6	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A74882

Included Lab Sample IDs: 1877455, 1877456

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A74887

Included Lab Sample IDs: 1877459, 1877460

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.9	99.4	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A74891

Included Lab Sample IDs: 1877457, 1877458

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A74921

Included Lab Sample IDs: 1877458

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.4	97.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A74948

Included Lab Sample IDs: 1877457, 1877458

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.3	95.2	P/P	90 - 110
Kjeldahl Nitrogen	97.9	95.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A74986

Included Lab Sample IDs: 1877457

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A74996

Included Lab Sample IDs: 1877457, 1877458

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
 Run ID: A74996
 Included Lab Sample IDs: 1877457, 1877458

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.8	99.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Run ID: A75018
 Included Lab Sample IDs: 1877457, 1877458

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: A75050
 Included Lab Sample IDs: 1877455, 1877456

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

Reference Method: SM 4500 F-C-97
 Run ID: A75050
 Included Lab Sample IDs: 1877455, 1877456

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

Reference Method: EPA 300.0 Rev. 2.1
 Run ID: A75123
 Included Lab Sample IDs: 1877455, 1877456

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	104	P/P	90 - 110
Sulfate	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				11.0	
EPA 300.0 Rev. 2.1	Chloride	104	100 104		1.24	
	Sulfate	102	92.9 101			
EPA 350.1 Rev. 2.0	Ammonia-N	101	101 99.8			0.519
	Ammonia-N	103	106 103			3.28
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	98.4 99.4			0.557
EPA 353.2 Rev. 2.0	NO2NO3-N	106	105 104			0.935
EPA 365.1 Rev. 2.0	Total-P	103	101 99.7			0.956
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	95.9 96.7			0.737
SM 2120 B	Color (true)				6.04	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
SM 2320 B-97	Total Alkalinity	104				0.0681	
SM 2540 C-97	TDS					8.34	
SM 4500 F-C-97	Fluoride	99.0	100	100			0.0
SM 5310 B-00	Organic Carbon	100	99.4	99.0			0.388

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1877455, 1877456
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1877455, 1877456
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1877455, 1877456
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1877457, 1877458
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1877457, 1877458
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1877457, 1877458
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1877457, 1877458
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1877459, 1877460
SM 2120 B / E31780	True Color measured at 450 nm	1877455, 1877456
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1877455, 1877456
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1877455, 1877456
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1877455, 1877456
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1877455, 1877456
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1877457, 1877458

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	03/03/2017			03/03/2017 14:15	Sima Feizi	1877455, 1877456
EPA 300.0 Rev. 2.1	03/03/2017			03/16/2017	Elisa J Lutz	1877455, 1877456
EPA 350.1 Rev. 2.0	03/03/2017			03/06/2017	Sofia Elnemr	1877458
	03/03/2017			03/08/2017	Sofia Elnemr	1877457
EPA 351.2 Rev. 2.0	03/03/2017	03/06/2017	Adrian Shelby	03/07/2017	Joseph Suarez	1877457, 1877458
EPA 353.2 Rev. 2.0	03/03/2017			03/10/2017	Beverly Y. Sanders	1877457, 1877458
EPA 365.1 Rev. 2.0	03/03/2017	03/07/2017	Adrian Shelby	03/08/2017	Lipi Saha	1877457, 1877458
EPA 365.1 Rev. 2.0 dissolved	03/03/2017			03/03/2017 15:25	Julia Storbeck	1877459
	03/03/2017			03/03/2017 15:26	Julia Storbeck	1877460
SM 2120 B	03/03/2017			03/03/2017 13:55	Julie Michelle Frank	1877455
	03/03/2017			03/03/2017 13:57	Julie Michelle Frank	1877456
SM 2320 B-97	03/03/2017			03/11/2017	Dale L. Simmons	1877455, 1877456
SM 2540 C-97	03/03/2017			03/08/2017	Yijie Li	1877455, 1877456
SM 2540 D-97	03/03/2017			03/08/2017	Yijie Li	1877455, 1877456
SM 4500 F-C-97	03/03/2017			03/11/2017	Dale L. Simmons	1877455, 1877456
SM 5310 B-00	03/03/2017			03/03/2017	Julie Michelle Frank	1877457, 1877458