

Chemical Analysis Report

SO-DIST-2016-09-15-01

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

Event Description: **Sanibel Dune Lakes**

Request ID: **RQ-2016-09-12-57**

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
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 07-OCT-2016 12:10



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: DUNES LAKE 4 WEIR DOWNSTREAM

Collection Date/Time: 09/14/2016 13:10

Field ID: DUNES LAKE 4 WEIR DOWNSTREAM

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1831690	EPA 180.1 Rev. 2.0	Turbidity	7.8		NTU	P311233	
	EPA 300.0 Rev. 2.1	Chloride	2.7E+03		mg Cl/L	P311707	
		Sulfate	420		mg SO4/L	P311705	
	SM 2120 B	Color (true)	52	A	PCU	P311245	
	SM 2320 B-97	Total Alkalinity	162		mg CaCO3/L	P311385	
	SM 2540 C-97	TDS	5.04E+03	J	mg/L	P312205	
	SM 2540 D-97	TSS	12		mg/L	P311876	
	SM 4500 F-C-97	Fluoride	0.70		mg F/L	P311389	
1831691	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P311420	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P312110	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P312123	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P312140	
	SM 5310 B-00	Organic Carbon	19		mg C/L	P311528	
1831692	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.024		mg P/L	P311242	

Ref. Method and Comment:

SM 2540 C-97: A constant dry weight was not attained. The result was confirmed on 9/30/2016.

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: P311233

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P311705

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P311707

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P311420

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P312110

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312123

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312140

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311242

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

Reference Method: SM 2120 B
Batch ID: P311245

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P311385

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-97
Batch ID: P312205

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P311876

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P311389

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P311528

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: P311705

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311420

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312110

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312123

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312140

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	92.3		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311242

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

Reference Method: SM 2320 B-97
Batch ID: P311385

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

Reference Method: SM 4500 F-C-97
Batch ID: P311389

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	92 - 103

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P311528

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: P311705

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1831628	Sulfate	98.2		P	90 - 110
1831814	Sulfate	95.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P311707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1831628	Chloride	102		P	90 - 110
1831814	Chloride	99.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P311420

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1831613	Ammonia-N	103	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P312110

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1833785	Kjeldahl Nitrogen	90.1	92.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P312123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832244	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P312140

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1832580	Total-P	95.5	96.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P311242

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1831678	O-Phosphate-P	98.1	99.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P311389

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1831378	Fluoride	102	102	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P311528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1831525	Organic Carbon	98.9	95.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P311233

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1831625	Turbidity	6.13	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311705

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1831628	Sulfate	0.209	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P311707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1831628	Chloride	0.288	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P311420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1831613	Ammonia-N	2.15	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P312110

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1833785	Kjeldahl Nitrogen	1.68	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P312123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832244	NO2NO3-N	0.471	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P312140

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1832580	Total-P	1.11	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P311242

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1831678	O-Phosphate-P	1.61	Spike	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P311245

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1831690	Color (true)	6.37	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P311385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1831378	Total Alkalinity	0.410	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P312205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1831611	TDS	0.844	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P311389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1831378	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P311528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1831525	Organic Carbon	2.40	Spike	P	0 - 20

Quality Assurance Report Precision

* 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 180.1 Rev. 2.0

Run ID: A71650

Included Lab Sample IDs: 1831690

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: A71652

Included Lab Sample IDs: 1831692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	98.6	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A71654

Included Lab Sample IDs: 1831690

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.1	98.9	P/P	85 - 115

Reference Method: SM 2320 B-97

Run ID: A71696

Included Lab Sample IDs: 1831690

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A71696

Included Lab Sample IDs: 1831690

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A71708

Included Lab Sample IDs: 1831691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.5	97.8	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A71737

Included Lab Sample IDs: 1831691

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A71789

Included Lab Sample IDs: 1831690

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.3	98.1	P/P	90 - 110
Sulfate	99.8	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A71894

Included Lab Sample IDs: 1831691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A71974

Included Lab Sample IDs: 1831691

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A72043

Included Lab Sample IDs: 1831691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.9	93.2	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					6.13	
EPA 300.0 Rev. 2.1	Chloride	98.7	102	99.2		0.288	
	Sulfate	94.9	98.2	95.6		0.209	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	103	105			2.15
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.4	90.1	92.4			1.68
EPA 353.2 Rev. 2.0	NO2NO3-N	100	102	102			0.471
EPA 365.1 Rev. 2.0	Total-P	92.3	95.5	96.9			1.11
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103	98.1	99.8			1.61
SM 2120 B	Color (true)					6.37	
SM 2320 B-97	Total Alkalinity	104				0.410	
SM 2540 C-97	TDS					0.844	
SM 4500 F-C-97	Fluoride	100	102	102			0.0
SM 5310 B-00	Organic Carbon	100	98.9	95.0			2.40

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1831690
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1831690
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1831690
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1831691
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1831691
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1831691
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1831691
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1831692
SM 2120 B / E31780	True Color measured at 450 nm	1831690
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1831690
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1831690
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1831690
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1831690
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1831691

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	09/15/2016			09/15/2016 15:35	Sima Feizi	1831690
EPA 300.0 Rev. 2.1	09/15/2016			09/23/2016	Ping Hua	1831690
EPA 350.1 Rev. 2.0	09/15/2016			09/16/2016	Sofia Elnemr	1831691
EPA 351.2 Rev. 2.0	09/15/2016	09/29/2016	Adrian Shelby	10/05/2016	Joseph Suarez	1831691
EPA 353.2 Rev. 2.0	09/15/2016			09/28/2016	Beverly Y. Sanders	1831691
EPA 365.1 Rev. 2.0	09/15/2016	09/29/2016	Vijayalakshmi Reddy	10/03/2016	Lipi Saha	1831691
EPA 365.1 Rev. 2.0 dissolved	09/15/2016			09/15/2016 16:09	Julia Storbeck	1831692
SM 2120 B	09/15/2016			09/15/2016 19:18	Julie Michelle Frank	1831690
SM 2320 B-97	09/15/2016			09/17/2016	Dale L. Simmons	1831690
SM 2540 C-97	09/15/2016			09/20/2016	Sima Feizi	1831690
SM 2540 D-97	09/15/2016			09/20/2016	Sima Feizi	1831690
SM 4500 F-C-97	09/15/2016			09/17/2016	Dale L. Simmons	1831690
SM 5310 B-00	09/15/2016			09/19/2016	Sofia Elnemr	1831691