

Chemical Analysis Report

SE-DIST-2023-10-18-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Algal Bloom Response - SE ROC**
Request ID: **RQ-2023-09-18-64**
Customer: **SE-DIST**
Project ID: **BLOOM-RESP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Andrew Luering

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Certified by: Colin Wright, Program Administrator

Date Certified: 30-OCT-2023 13:13

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular 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: Lake Marian - Boat Ramp

Collection Date/Time: 10/17/2023 12:05

Field ID: SEHAB0089

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2445629	DEP SOP: NU-094-1	Color (true)	84	A	PCU	P436711	
2445630	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P436815	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.7		mg N/L	P436778	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P436906	
	EPA 365.1 Rev. 2.0	Total-P	0.20		mg P/L	P436723	
2445631	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.041		mg P/L	P436694	
2445633	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P436523	
		Cylindrospermopsin	0.10	U	ug/L	P436451	
		Desmethyl microcystin LR	0.25	U	ug/L	P436451	
		Microcystin HiLR	0.25	U	ug/L	P436451	
		Microcystin HtyR	0.25	U	ug/L	P436451	
		Microcystin LA	0.28	I	ug/L	P436451	
		Microcystin LF	0.12	I	ug/L	P436451	
		Microcystin LR	0.95	I	ug/L	P436451	
		Microcystin LW	0.25	U	ug/L	P436451	
		Microcystin LY	0.44		ug/L	P436451	
		Microcystin RR	0.16	I	ug/L	P436451	
		Microcystin WR	0.50	U	ug/L	P436451	
		Neosaxitoxin	0.50	U	ug/L	P436523	
		Microcystin YR	0.25	U	ug/L	P436451	
		Saxitoxin	0.50	U	ug/L	P436523	
		Nodularin-R	0.10	U	ug/L	P436451	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P436711

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436815

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436778

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436906

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436723

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436694

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

Reference Method: EPA 8321B
Batch ID: P436451

Component	Result	Code	Units
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin H1LR	0.25	U	ug/L
Microcystin HtyR	0.25	U	ug/L
Microcystin LA	0.10	U	ug/L
Microcystin LF	0.10	U	ug/L
Microcystin LR	0.25	U	ug/L
Microcystin LW	0.25	U	ug/L
Microcystin LY	0.10	U	ug/L
Microcystin RR	0.10	U	ug/L
Microcystin WR	0.50	U	ug/L
Microcystin YR	0.25	U	ug/L
Nodularin-R	0.10	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P436523

Component	Result	Code	Units
Anatoxin-a	0.25	U	ug/L
Neosaxitoxin	0.50	U	ug/L
Saxitoxin	0.50	U	ug/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P436711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436815

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436778

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436906

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436723

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436694

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.0		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P436451

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	108		P	40 - 160
Desmethyl microcystin LR	111		P	40 - 160
Microcystin H11R	111		P	40 - 160
Microcystin HtyR	121		P	40 - 160
Microcystin LA	116		P	40 - 160
Microcystin LF	139		P	40 - 160
Microcystin LR	122		P	40 - 160
Microcystin LW	141		P	40 - 160
Microcystin LY	135		P	40 - 160
Microcystin RR	121		P	40 - 160
Microcystin WR	93.9		P	40 - 160
Microcystin YR	116		P	40 - 160
Nodularin-R	112		P	40 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P436523

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	102		P	40 - 150
Neosaxitoxin	82.7		P	40 - 150
Saxitoxin	85.3		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445603	Ammonia-N	98.8	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445929	Kjeldahl Nitrogen	102	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445180	NO2NO3-N	94.7	95.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436723

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445749	Total-P	104	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436694

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445591	O-Phosphate-P	97.5	98.4	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P436451

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444994	Cylindrospermopsin	82.2	85.0	P/P	40 - 160
2444994	Desmethyl microcystin LR	114	121	P/P	40 - 160
2444994	Microcystin HiLR	115	124	P/P	40 - 160
2444994	Microcystin HtyR	114	115	P/P	40 - 160
2444994	Microcystin LA	110	109	P/P	40 - 160
2444994	Microcystin LF	132	129	P/P	40 - 160
2444994	Microcystin LR	132	135	P/P	40 - 160
2444994	Microcystin LW	114	124	P/P	40 - 160
2444994	Microcystin LY	135	126	P/P	40 - 160
2444994	Microcystin RR	102	99.0	P/P	40 - 160
2444994	Microcystin WR	111	111	P/P	40 - 160
2444994	Microcystin YR	122	133	P/P	40 - 160
2444994	Nodularin-R	108	103	P/P	40 - 160

Reference Method: EPA 8321B
Batch ID: P436523

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444994	Anatoxin-a	94.5	101	P/P	40 - 150
2444994	Neosaxitoxin	59.5	63.4	P/P	40 - 150
2444994	Saxitoxin	78.2	81.6	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445629	Color (true)	1.49	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445603	Ammonia-N	3.25	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445929	Kjeldahl Nitrogen	4.98	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445180	NO2NO3-N	1.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436723

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445749	Total-P	2.38	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436694

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445591	O-Phosphate-P	0.856	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P436451

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444994	Cylindrospermopsin	3.39	Spike	P	0 - 30
2444994	Desmethyl microcystin LR	5.63	Spike	P	0 - 30
2444994	Microcystin HtIR	7.49	Spike	P	0 - 30
2444994	Microcystin HtyR	0.869	Spike	P	0 - 30
2444994	Microcystin LA	0.252	Spike	P	0 - 30
2444994	Microcystin LF	2.19	Spike	P	0 - 30
2444994	Microcystin LR	2.18	Spike	P	0 - 30
2444994	Microcystin LW	7.97	Spike	P	0 - 30
2444994	Microcystin LY	6.95	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436451

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444994	Microcystin RR	3.42	Spike	P	0 - 30
2444994	Microcystin WR	0.515	Spike	P	0 - 30
2444994	Microcystin YR	8.64	Spike	P	0 - 30
2444994	Nodularin-R	4.18	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436523

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444994	Anatoxin-a	6.41	Spike	P	0 - 30
2444994	Neosaxitoxin	6.28	Spike	P	0 - 30
2444994	Saxitoxin	4.35	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2445633
Field Sample ID: SEHAB0089

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	99.2	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	116	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122222

Included Lab Sample IDs: 2445631

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.7	99.3	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A122227

Included Lab Sample IDs: 2445629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122228

Included Lab Sample IDs: 2445633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	102	99.1	P/P	50 - 160
Neosaxitoxin	94.7	97.8	P/P	50 - 160
Saxitoxin	105	106	P/P	50 - 160

Reference Method: EPA 8321B

Run ID: A122229

Included Lab Sample IDs: 2445633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	78.7	119	P/P	60 - 160
Desmethyl microcystin LR	103	83.6	P/P	50 - 160
Microcystin HILR	105	84.0	P/P	60 - 160
Microcystin HtyR	99.5	79.3	P/P	60 - 160
Microcystin LA	93.9	74.2	P/P	50 - 160
Microcystin LF	107	80.4	P/P	60 - 160
Microcystin LR	107	78.2	P/P	60 - 160
Microcystin LW	93.8	70.9	P/P	60 - 160
Microcystin LY	96.2	75.8	P/P	60 - 160
Microcystin RR	96.3	79.1	P/P	60 - 160
Microcystin WR	94.2	76.1	P/P	60 - 160
Microcystin YR	105	78.3	P/P	60 - 160
Nodularin-R	90.9	68.9	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122258

Included Lab Sample IDs: 2445630

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122263

Included Lab Sample IDs: 2445630

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	98.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122299

Included Lab Sample IDs: 2445630

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	96.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122309

Included Lab Sample IDs: 2445630

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.9	90.5	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		Precision SMP	MS
					LCS	
DEP SOP: NU-094-1	Color (true)	100			1.49	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	98.8	102		3.25
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	102	109		4.98
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	97.0	94.7	95.7		1.02
EPA 365.1 Rev. 2.0	Total-P	102	104	102		2.38
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.0	97.5	98.4		0.856
EPA 8321B	Anatoxin-a	102	94.5	101		6.41
	Cylindrospermopsin	108	82.2	85.0		3.39
	Desmethyl microcystin LR	111	114	121		5.63
	Microcystin H ₁ LR	111	115	124		7.49
	Microcystin H ₂ YR	121	114	115		0.869
	Microcystin LA	116	110	109		0.252
	Microcystin LF	139	132	129		2.19
	Microcystin LR	122	132	135		2.18
	Microcystin LW	141	114	124		7.97
	Microcystin LY	135	135	126		6.95
	Microcystin RR	121	102	99.0		3.42
	Microcystin WR	93.9	111	111		0.515
	Microcystin YR	116	122	133		8.64
	Neosaxitoxin	82.7	59.5	63.4		6.28
	Nodularin-R	112	108	103		4.18
	Saxitoxin	85.3	78.2	81.6		4.35

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2445629
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2445630
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2445630
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2445630
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2445630
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2445631
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2445633
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2445633

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	10/18/2023			10/18/2023 16:38	Chandler E Cox	2445629
EPA 350.1 Rev. 2.0	10/18/2023			10/20/2023 13:42	Ping Hua	2445630
EPA 351.2 Rev. 2.0	10/18/2023	10/20/2023 15:38	Simonne.V. Calhoun	10/24/2023 11:48	Samantha L Bates	2445630
EPA 353.2 Rev. 2.0	10/18/2023			10/20/2023 15:29	Fadila Guebre	2445630
EPA 365.1 Rev. 2.0	10/18/2023	10/19/2023 12:30	Simonne.V. Calhoun	10/20/2023 10:49	James L Waggerby	2445630
EPA 365.1 Rev. 2.0 dissolved	10/18/2023			10/18/2023 13:42	Elise M. Gillis	2445631
EPA 8321B	10/18/2023	10/18/2023 12:00	Tae K Lee	10/18/2023 17:19	Tae K Lee	2445633
	10/18/2023	10/18/2023 12:00	Tae K Lee	10/18/2023 17:21	Tae K Lee	2445633