Biological Analysis Report

NW-DIST-2015-03-17-02

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

Overflow Analyses Performed By:
University of West Florida
11000 University Parkway
Pensacola, FL 32514
DOH Accreditation E71969

Event Description: **Project Greenshores**
Request ID: **RQ-2015-02-23-12**
Customer: **NW-DIST**
Project ID: **DISTRICT**

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160 Government Center
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Pensacola, FL 32502-5794
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Certified by: Loretta E. Wolfe, Environmental Manager

Date Certified: 08-APR-2015 08:26

Loretta E. Wolfe

Abbreviations and data remark codes

CERT # - NELAP (National Environmental Laboratory Accreditation Program) Certification Number of the laboratory that performed the analysis.
LCS – Laboratory Control Sample; in the QC Failures column, this notation indicates a batch recovery failure.
MS – Matrix Spike; in the QC Failures column, this notation indicates a batch recovery failure.
RPD – Relative Percent Difference; in the QC Failures column, this notation indicates a batch failure for precision.
CCV – Continuing Calibration Verification; in the QC Failures column, this notation indicates a failure of the calibration verification check sample.
SUR – Surrogate; in the QC Failures column, this notation indicates a recovery failure for the associated surrogate.
RSD – Relative Standard Deviation expressed as a percentage.
SMP – Sample.
** - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

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).

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.

Precision is reported as relative percent difference unless otherwise noted.

Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published test performance acceptance criteria.

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.

All sample collection performed by Bureau of Laboratories staff followed the field Standard Operating Procedures adopted by reference in Rule 62-160 FAC unless otherwise noted.

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.

Results for NELAP accredited tests contained in this report meet the requirements specified by the National Environmental Laboratory Accreditation Conference (NELAC). All samples received were in acceptable condition and met NELAC requirements unless otherwise noted. Results generated in this report pertain to the samples collected and submitted for analysis.

All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Job: TLH-2015-03-17-23	Group: Chlorophyll/Grain Size/BOD
Job: TLH-2015-03-17-24	Group: Chlorophyll/Grain Size/BOD
Job: TLH-2015-03-17-26	Group: Overflow

Sample Location: RANGE MARKER EAST OF TEXAR **Collection Date/Time: 03/16/2015 10:58**

Field ID: 1 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682749	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.70	I	mg/L	P282254	
1682771	SM 10200 H (mod.)	Chlorophyll-a, Corrected	14		ug/L	P282083	
		Phaeophytin-a	2.0		ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.6			P282083	
		Chlorophyll-a, Uncorrected	16		ug/L	P282083	
1682787	EPA 1600 (MF)	Enterococci-Membrane Filter	8	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	32	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: 1/2 BRIDGE AND MUSCOGEE **Collection Date/Time: 03/16/2015 11:16**

Field ID: 2 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682750	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.1	I	mg/L	P282254	
1682772	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.8		ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.6			P282083	
		Chlorophyll-a, Uncorrected	4.1		ug/L	P282083	
1682788	EPA 1600 (MF)	Enterococci-Membrane Filter	2	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	13	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: EAST OF PRIMARY STORM DRAIN PGS1 **Collection Date/Time: 03/16/2015 11:25**

Field ID: 3 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682751	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	I	mg/L	P282254	
1682773	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.0		ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.6			P282083	
		Chlorophyll-a, Uncorrected	3.3		ug/L	P282083	
1682789	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	7	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: 100 FT S.OF STORM DRAIN **Collection Date/Time: 03/16/2015 11:30**

Field ID: 4 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682752	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.0	I	mg/L	P282254	
1682774	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.1		ug/L	P282083	

Field ID: 4 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682774	SM 10200 H (mod.)	Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.7			P282083	
		Chlorophyll-a, Uncorrected	3.3		ug/L	P282083	
1682790	EPA 1600 (MF)	Enterococci-Membrane Filter	6	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	13	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: END OF CHASE STREET **Collection Date/Time: 03/16/2015 11:36**

Field ID: 5 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682753	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.67	I	mg/L	P282254	
1682775	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.2		ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.6			P282083	
		Chlorophyll-a, Uncorrected	3.5		ug/L	P282083	
1682791	EPA 1600 (MF)	Enterococci-Membrane Filter	2	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	12	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: 1/2 MUSCOGEE AND HAWKSHAW 400 FT FROM SHORE **Collection Date/Time: 03/16/2015 11:50**

Field ID: 6 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682754	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.92	I	mg/L	P282255	
1682776	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.5		ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.7			P282083	
		Chlorophyll-a, Uncorrected	3.7		ug/L	P282083	
1682792	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	8	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: 1/2 BETWEEN BRIDGE AND PORT **Collection Date/Time: 03/16/2015 12:00**

Field ID: 7 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682755	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.59	I	mg/L	P282255	
1682777	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.7		ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.7			P282083	
		Chlorophyll-a, Uncorrected	3.9		ug/L	P282083	

Field ID: 7 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682793	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	9	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: WEST OF STORM DRAIN INSIDE ROCKS **Collection Date/Time: 03/16/2015 11:43**

Field ID: 8 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682756	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.2	I	mg/L	P282255	
1682778	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.3		ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.7			P282083	
		Chlorophyll-a, Uncorrected	2.4		ug/L	P282083	
1682794	EPA 1600 (MF)	Enterococci-Membrane Filter	4	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	12	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: WEST END OF HAWKSHAW 100 FT S. OF OUTFALL **Collection Date/Time: 03/16/2015 12:30**

Field ID: 9 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682757	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.2	I	mg/L	P282255	
1682779	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.2	A	ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.7	A		P282083	
		Chlorophyll-a, Uncorrected	3.4	A	ug/L	P282083	
1682795	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	12	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Laboratory duplicate result is 0.40 U for Phaeophytin-a. Precision data is unavailable due to the small amount of analyte in the QC sample.

Sample Location: WEST END OF HAWKSHAW 100 FT S.OF OUTFALL **Collection Date/Time: 03/16/2015 12:33**

Field ID: 9 DUP Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682758	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.3	I	mg/L	P282255	
1682780	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.1		ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.7			P282083	
		Chlorophyll-a, Uncorrected	3.3		ug/L	P282083	

Field ID: 9 DUP Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: BETWEEN MARINA AND OUTFALL **Collection Date/Time: 03/16/2015 12:25**

Field ID: 10 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682759	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.2	I	mg/L	P282255	
1682781	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.7		ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.6			P282083	
		Chlorophyll-a, Uncorrected	3.0		ug/L	P282083	
1682797	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	4	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Laboratory duplicate result is 0.80 I mg/L. Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: ENTRANCE OF MARINA **Collection Date/Time: 03/16/2015 12:17**

Field ID: 11 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682760	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.3	I	mg/L	P282255	
1682782	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.3		ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.7			P282083	
		Chlorophyll-a, Uncorrected	3.5		ug/L	P282083	
1682798	EPA 1600 (MF)	Enterococci-Membrane Filter	2	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	13	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: 1/4 BETWEEN BRIDGE AND PORT 400 FT FROM SHORE **Collection Date/Time: 03/16/2015 12:07**

Field ID: 12 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682761	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.2	I	mg/L	P282255	
1682783	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.4		ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.7			P282083	
		Chlorophyll-a, Uncorrected	3.6		ug/L	P282083	
1682799	EPA 1600 (MF)	Enterococci-Membrane Filter	2	U	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	7	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: 1/4 BRIDGE BRIDGE AND PORT 400 FT FROM SHORE **Collection Date/Time: 03/16/2015 12:10**

Field ID: FB Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682762	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.20	U	mg/L	P282255	
1682784	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.55	U	ug/L	P282083	
		Phaeophytin-a	0.40	U	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.1			P282083	
		Chlorophyll-a, Uncorrected	0.40	U	ug/L	P282083	

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: INSIDE HAWKSHAW LAGOON **Collection Date/Time: 03/16/2015 12:45**

Field ID: 13 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682763	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	I	mg/L	P282255	
1682785	SM 10200 H (mod.)	Chlorophyll-a, Corrected	4.9		ug/L	P282083	
		Phaeophytin-a	0.81	I	ug/L	P282083	
		Chlorophyll/Phaeophytin Ratio	1.6			P282083	
		Chlorophyll-a, Uncorrected	5.6		ug/L	P282083	
1682801	EPA 1600 (MF)	Enterococci-Membrane Filter	12	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	39	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Phaeophytin-a component due to the small amount of analyte in the QC sample.

Sample Location: E .OF STORM DRAIN INSIDE PGS II **Collection Date/Time: 03/16/2015 12:55**

Field ID: 14 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1682764	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.2	I	mg/L	P282255	
1682786	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.2		ug/L	P282353	
		Phaeophytin-a	0.40	U	ug/L	P282353	
		Chlorophyll/Phaeophytin Ratio	1.7			P282353	
		Chlorophyll-a, Uncorrected	3.4		ug/L	P282353	
1682802	EPA 1600 (MF)	Enterococci-Membrane Filter	4	B	cfu/100 mL		
	SM 9222 D	Fecal Coliforms-Membrane Filter	12	B	cfu/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample.
SM 10200 H (mod.): Precision data is unavailable for the Chl:Phaeo Ratio and Chl-a Corrected components due to the small amount of analyte in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: SM 10200 H (mod.)
Batch ID: P282083

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 10200 H (mod.)
Batch ID: P282083

Component	Result	Code	Units
Chlorophyll-a, Uncorrected	0.40	U	ug/L
Phaeophytin-a	0.40	U	ug/L

Reference Method: SM 10200 H (mod.)
Batch ID: P282353

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L
Chlorophyll-a, Uncorrected	0.40	U	ug/L
Phaeophytin-a	0.40	U	ug/L

Reference Method: SM 5210 B
Batch ID: P282254

Component	Result	Code	Units
Biochemical Oxygen Demand-5 Day	0.20	U	mg/L

Reference Method: SM 5210 B
Batch ID: P282255

Component	Result	Code	Units
Biochemical Oxygen Demand-5 Day	0.20	U	mg/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
Batch ID: P282083

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	103		P	85 - 115

Reference Method: SM 10200 H (mod.)
Batch ID: P282353

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	93.6		P	85 - 115

Reference Method: SM 5210 B
Batch ID: P282254

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Biochemical Oxygen Demand-5 Day	103		P	84 - 116

Reference Method: SM 5210 B
Batch ID: P282255

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Biochemical Oxygen Demand-5 Day	108		P	84 - 116

Quality Assurance Report
Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P282083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1682779	Chlorophyll/Phaeophytin Ratio	0.0	Sample	P	0 - 25
1682779	Chlorophyll-a, Corrected	10.6	Sample	P	0 - 25
1682779	Chlorophyll-a, Uncorrected	10.6	Sample	P	0 - 25

Reference Method: SM 10200 H (mod.)
Batch ID: P282353

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1683142	Chlorophyll-a, Uncorrected	2.37	Sample	P	0 - 25
1683142	Phaeophytin-a	3.70	Sample	P	0 - 25

* 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
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision		
				LCS	SMP	MS
SM 10200 H (mod.)	Chlorophyll/Phaeophytin Ratio				0.0	
	Chlorophyll-a, Corrected	103			10.6	
	Chlorophyll-a, Corrected	93.6				
	Chlorophyll-a, Uncorrected				10.6	
	Chlorophyll-a, Uncorrected				2.37	
	Phaeophytin-a				3.70	
SM 5210 B	Biochemical Oxygen Demand-5 Day	103				
	Biochemical Oxygen Demand-5 Day	108				

Reference Method Descriptions

Method / NELAC Cert. #	Description	Associated Samples
EPA 1600 (MF) / E71969	Enterococci by membrane filter method by UWF Overflow Laboratory for NWD	1682787, 1682788, 1682789, 1682790, 1682791, 1682792, 1682793, 1682794, 1682795, 1682797, 1682798, 1682799, 1682801, 1682802
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry	1682771, 1682772, 1682773, 1682774, 1682775, 1682776, 1682777, 1682778, 1682779, 1682780, 1682781, 1682782, 1682783, 1682784, 1682785, 1682786
SM 5210 B / E31780	BOD, NOT nitrogen-inhibited	1682749, 1682750, 1682751, 1682752, 1682753, 1682754, 1682755, 1682756, 1682757, 1682758, 1682759, 1682760, 1682761, 1682762, 1682763, 1682764
SM 9222 D / E71969	Fecal coliforms by membrane filter method by UWF Overflow Laboratory for NWD	1682787, 1682788, 1682789, 1682790, 1682791, 1682792, 1682793, 1682794, 1682795, 1682797, 1682798, 1682799, 1682801, 1682802

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 1600 (MF)	03/16/2015			03/16/2015 16:05	UWF Lab	1682787
	03/16/2015			03/16/2015 16:08	UWF Lab	1682788
	03/16/2015			03/16/2015 16:11	UWF Lab	1682789
	03/16/2015			03/16/2015 16:14	UWF Lab	1682790
	03/16/2015			03/16/2015 16:17	UWF Lab	1682791
	03/16/2015			03/16/2015 16:20	UWF Lab	1682792
	03/16/2015			03/16/2015 16:26	UWF Lab	1682793
	03/16/2015			03/16/2015 16:32	UWF Lab	1682794
	03/16/2015			03/16/2015 16:35	UWF Lab	1682795
	03/16/2015			03/16/2015 16:41	UWF Lab	1682797
	03/16/2015			03/16/2015 16:44	UWF Lab	1682798
	03/16/2015			03/16/2015 16:47	UWF Lab	1682799
	03/16/2015			03/16/2015 16:50	UWF Lab	1682801
	03/16/2015			03/16/2015 16:53	UWF Lab	1682802
SM 10200 H (mod.)	03/17/2015	03/17/2015 13:30	Jonathan M. Woods	03/18/2015	Kim M. Spencer	1682771, 1682772, 1682773, 1682774, 1682775, 1682776, 1682777, 1682778, 1682779, 1682780, 1682781, 1682782, 1682783, 1682784, 1682785
	03/17/2015	03/17/2015 13:30	Jonathan M. Woods	03/19/2015	Kim M. Spencer	1682786
SM 5210 B	03/17/2015			03/18/2015 08:05	Jonathan M. Woods	1682749, 1682750, 1682751, 1682752, 1682753, 1682754, 1682755, 1682756, 1682757, 1682758, 1682759, 1682760, 1682761, 1682762, 1682763, 1682764
SM 9222 D	03/16/2015			03/16/2015 16:15	UWF Lab	1682787
	03/16/2015			03/16/2015 16:18	UWF Lab	1682788
	03/16/2015			03/16/2015 16:22	UWF Lab	1682789
	03/16/2015			03/16/2015 16:26	UWF Lab	1682790
	03/16/2015			03/16/2015 16:30	UWF Lab	1682791
	03/16/2015			03/16/2015 16:34	UWF Lab	1682792
	03/16/2015			03/16/2015 16:41	UWF Lab	1682793
	03/16/2015			03/16/2015 16:48	UWF Lab	1682794
	03/16/2015			03/16/2015 16:51	UWF Lab	1682795
	03/16/2015			03/16/2015 16:58	UWF Lab	1682797
	03/16/2015			03/16/2015 17:02	UWF Lab	1682798
	03/16/2015			03/16/2015 17:06	UWF Lab	1682799
	03/16/2015			03/16/2015 17:09	UWF Lab	1682801
	03/16/2015			03/16/2015 17:13	UWF Lab	1682802