

Biological Analysis Report

SE-DIST-2017-10-24-01

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

Overflow Analyses Performed By:
Flowers Chemical Laboratories Inc.
571 NW Mercantile Pl. Ste. 111
Port St. Lucie, FL 34986
DOH Accreditation E86562

Event Description: **SMP-G2 Jupiter Run**
Request ID: **RQ-2017-10-23-21**
Customer: **SE-DIST**
Project ID: **SMP**

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Date Certified: 12-DEC-2017 14:20



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: Chlorophyll/Grain Size/BOD, Molecular and Overflow.

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: SW Fork Lox @ Central Blvd

Collection Date/Time: 10/23/2017 10:40

Field ID: G2SE0023

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1939409	SM 10200 H (mod.)	Chlorophyll-a, Corrected	4.1		ug/L	P334520	
		Phaeophytin-a	1.0	I	ug/L	P334520	
		Chlorophyll-a, Uncorrected	4.8		ug/L	P334520	
1939415	SOP-PCR-1.0	HF183-qPCR**	140	U	GEU/100 mL	P333912	
	SOP-PCR-1.2	GULL2-qPCR**	8.4E+03	U	TSC/100 mL	P333912	LCS
	SOP-PCR-1.3	GFD-purified-qPCR**	87	T	TSC/100 mL	P333940	LCS, MS
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	UJ	TSC/100 mL	P333912	RPD
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				
1939428	Enterolert/QT	Enterococci-Quanti-Tray	72		MPN/100 mL		
1939430	SM 9222 D	Fecal Coliforms-Membrane Filter	320		cfu/100 mL		

Ref. Method and Comment:

SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

SOP-PCR-1.0: No amplification of HF183 marker.

SOP-PCR-1.2: No amplification of GULL2 marker.

SOP-PCR-1.4: No amplification of BACR marker. Quality control failure(s) observed. See QA report for details.

Sample Location: Tidal Creek to Lox

Collection Date/Time: 10/23/2017 11:00

Field ID: G2SE0027

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1939408	SM 10200 H (mod.)	Chlorophyll-a, Corrected	5.6		ug/L	P334520	
		Phaeophytin-a	0.65	I	ug/L	P334520	
		Chlorophyll-a, Uncorrected	6.2		ug/L	P334520	
1939414	SOP-PCR-1.0	HF183-qPCR**	94	U	GEU/100 mL	P333912	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				
1939427	Enterolert/QT	Enterococci-Quanti-Tray	63		MPN/100 mL		

Ref. Method and Comment:

SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

SOP-PCR-1.0: No amplification of HF183 marker.

Sample Location: North Fork Lox @ County Line

Collection Date/Time: 10/23/2017 11:15

Field ID: G2SE0021

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1939410	SM 10200 H (mod.)	Chlorophyll-a, Corrected	5.3		ug/L	P334520	
		Phaeophytin-a	1.1	I	ug/L	P334520	
		Chlorophyll-a, Uncorrected	6.2		ug/L	P334520	
1939416	SOP-PCR-1.0	HF183-qPCR**	55	T	GEU/100 mL	P333912	
	SOP-PCR-1.2	GULL2-qPCR**	1.4E+03	T	TSC/100 mL	P333912	LCS
	SOP-PCR-1.3	GFD-purified-qPCR**	690		TSC/100 mL	P333940	LCS, MS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				
1939429	Enterolert/QT	Enterococci-Quanti-Tray	20		MPN/100 mL		
1939431	SM 9222 D	Fecal Coliforms-Membrane Filter	108		cfu/100 mL		

Ref. Method and Comment:

SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

SOP-PCR-1.2: Precision data unavailable.

Sample Location: North Fork Upper Lox

Collection Date/Time: 10/23/2017 12:00

Field ID: G2SE0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1939407	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.0		ug/L	P334520	
		Phaeophytin-a	0.65	I	ug/L	P334520	
		Chlorophyll-a, Uncorrected	2.5		ug/L	P334520	
1939413	SOP-PCR-1.0	HF183-qPCR**	64	T	GEU/100 mL	P333912	
	SOP-PCR-1.2	GULL2-qPCR**	8.4E+03	U	TSC/100 mL	P333912	LCS
	SOP-PCR-1.3	GFD-purified-qPCR**	16	TJ	TSC/100 mL	P333940	LCS, MS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				
1939426	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	20		MPN/100 mL		

Ref. Method and Comment:

SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

SOP-PCR-1.2: No amplification of GULL2 marker.

SOP-PCR-1.3: Quality control failure(s) observed. See QA report for details.

Sample Location: Henderson Pond

Collection Date/Time: 10/23/2017 12:45

Field ID: G2SE0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1939411	SM 10200 H (mod.)	Chlorophyll-a, Corrected	35		ug/L	P334520	
		Phaeophytin-a	3.2		ug/L	P334520	
		Chlorophyll-a, Uncorrected	38		ug/L	P334520	

Ref. Method and Comment:

SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: C-24 Canal @ PSL Blvd

Collection Date/Time: 10/23/2017 13:15

Field ID: G2SE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1939412	SM 10200 H (mod.)	Chlorophyll-a, Corrected	6.8		ug/L	P334520	
		Phaeophytin-a	1.2	I	ug/L	P334520	
		Chlorophyll-a, Uncorrected	7.8		ug/L	P334520	
1939417	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				
1939432	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	52		MPN/100 mL		

Ref. Method and Comment:

SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)

Batch ID: P334520

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

Quality Assurance Report Method Blank Results

Reference Method: SOP-PCR-1.0
 Batch ID: P333912

Component	Result	Code	Units
HF183-qPCR	280	U	GEU/100 mL
HF183-qPCR	280	U	GEU/100 mL

Reference Method: SOP-PCR-1.2
 Batch ID: P333912

Component	Result	Code	Units
GULL2-qPCR	1.7E+04	U	TSC/100 mL
GULL2-qPCR	1.7E+04	U	TSC/100 mL

Reference Method: SOP-PCR-1.3
 Batch ID: P333940

Component	Result	Code	Units
GFD-purified-qPCR	340	U	TSC/100 mL

Reference Method: SOP-PCR-1.4
 Batch ID: P333912

Component	Result	Code	Units
BacR-qPCR	3.0E+03	U	TSC/100 mL
BacR-qPCR	3.0E+03	U	TSC/100 mL

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
 Batch ID: P334520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	105		P	84 - 116

Reference Method: SOP-PCR-1.0
 Batch ID: P333912

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	95.3	109	P/P	50 - 175
HF183-qPCR	88.1	126	P/P	50 - 175

Reference Method: SOP-PCR-1.2
 Batch ID: P333912

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	146	91.7	P/P	50 - 300
GULL2-qPCR	91.4	91.7	P/P	50 - 300
GULL2-qPCR	114	44.4	P/F	50 - 300

Reference Method: SOP-PCR-1.3
 Batch ID: P333940

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SOP-PCR-1.3
Batch ID: P333940

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-purified-qPCR	117	27.2	P/F	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P333912

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	140	74.0	P/P	50 - 175
BacR-qPCR	126	91.1	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P333912

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1931526	HF183-qPCR	105		P	50 - 175
1931768	HF183-qPCR	79.9		P	50 - 175
1935004	HF183-qPCR	96.1		P	50 - 175
1935006	HF183-qPCR	90.3		P	50 - 175
1935007	HF183-qPCR	90.1		P	50 - 175
1939413	HF183-qPCR	113		P	50 - 175
1939414	HF183-qPCR	89.5		P	50 - 175
1939415	HF183-qPCR	88.0	108	P/P	50 - 175
1939416	HF183-qPCR	88.7		P	50 - 175
1939685	HF183-qPCR	95.9		P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P333912

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1935007	GULL2-qPCR	66.9		P	50 - 300
1939413	GULL2-qPCR	94.2		P	50 - 300
1939415	GULL2-qPCR	81.5	71.8	P/P	50 - 300
1939416	GULL2-qPCR	72.5		P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P333940

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1932386	GFD-purified-qPCR	54.7		P	50 - 175
1933151	GFD-purified-qPCR	140		P	50 - 175
1935452	GFD-purified-qPCR	137		P	50 - 175
1939413	GFD-purified-qPCR	204		F	50 - 175
1939415	GFD-purified-qPCR	122	126	P/P	50 - 175
1939416	GFD-purified-qPCR	87.0		P	50 - 175
1939983	GFD-purified-qPCR	55.0		P	50 - 175
1940025	GFD-purified-qPCR	120		P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.4
Batch ID: P333912

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1931526	BacR-qPCR	72.7		P	50 - 175
1935007	BacR-qPCR	53.2		P	50 - 175
1939415	BacR-qPCR	118	64.7	P/P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P334520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939463	Chlorophyll-a, Corrected	12.9	Sample	P	0 - 25
1939463	Chlorophyll-a, Uncorrected	8.77	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P333912

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939415	HF183-qPCR	20.5	Spike	P	0 - 25

Reference Method: SOP-PCR-1.2
Batch ID: P333912

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939415	GULL2-qPCR	12.7	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
Batch ID: P333940

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939415	GFD-purified-qPCR	3.28	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P333912

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939415	BacR-qPCR	58.3	Spike	F	0 - 25
1939984	BacR-qPCR	11.1	Spike	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 Surrogates

Quality Assurance Report Surrogates

Lab Sample ID: 1939413
Field Sample ID: G2SE0020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	86.8	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	92.0	P	50 - 300

Lab Sample ID: 1939414
Field Sample ID: G2SE0027

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	92.0	P	50 - 300

Lab Sample ID: 1939415
Field Sample ID: G2SE0023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	88.0	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	91.8	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	57.1	P	50 - 300

Lab Sample ID: 1939416
Field Sample ID: G2SE0021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	84.4	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	82.2	P	50 - 300

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery			MS % Recovery			LCS	Precision SMP	MS
SM 10200 H (mod.)	Chlorophyll-a, Corrected	105							12.9	
	Chlorophyll-a, Uncorrected								8.77	
SOP-PCR-1.0	HF183-qPCR	95.3	126	88.1	96.1	90.3	105			20.5
		109			79.9					
SOP-PCR-1.2	GULL2-qPCR	146	91.7	44.4	94.2	81.5	71.8			12.7
		91.7			66.9					
SOP-PCR-1.3	GFD-purified-qPCR	27.2	117		54.7	140	137			3.28
					204					
SOP-PCR-1.4	BacR-qPCR	140	91.1	126	118	64.7	72.7			58.3 11.1
		74.0			53.2					

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
Enterolert/QT / E86562	Enterococci by Enterolert Quanti-Tray method by Flowers Overflow Laboratory for Southeast District	1939427, 1939428, 1939429
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	1939407, 1939408, 1939409, 1939410, 1939411, 1939412
SM 9222 D / E86562	Fecal coliforms by membrane filter method by Flowers Overflow Laboratory for SED	1939430, 1939431
SM 9223 Quanti-Tray / E86562	Escherichia coli by Colilert 18 Quanti-Tray method by FlowersOverflow Laboratory for Southeast District	1939426, 1939432
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	1939413, 1939414, 1939415, 1939416

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SOP-PCR-1.2 / E31780	Detection and quantification of coastal bird specific <i>Catelliboccus marimammalium</i> Gull2 genetic marker with quantitative polymerase chain reaction	1939413, 1939415, 1939416
SOP-PCR-1.3 / E31780	Detection and quantification of bird specific <i>Helicobacter</i> GFD genetic marker with quantitative polymerase chain reaction	1939413, 1939415, 1939416
SOP-PCR-1.4 / E31780	Detection and quantification of Ruminant specific <i>Bacteroidetes</i> BacR genetic marker with quantitative polymerase chain reaction	1939415
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	1939413, 1939414, 1939415, 1939416, 1939417

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
Enterolert/QT	10/23/2017	10/23/2017 15:40		10/24/2017 15:45	Flowers-PSL	1939427, 1939428, 1939429
SM 10200 H (mod.)	10/24/2017	10/24/2017 13:08	Cathy Sherrer	11/01/2017	Kim M. Spencer	1939407, 1939408, 1939409, 1939410, 1939411, 1939412
SM 9222 D	10/23/2017	10/23/2017 14:20		10/24/2017 14:15	Flowers-PSL	1939430, 1939431
SM 9223 Quanti-Tray	10/23/2017	10/23/2017 15:55		10/24/2017 13:20	Flowers-PSL	1939426, 1939432
SOP-PCR-1.0	10/24/2017	10/24/2017 13:30	Puja Jasrotia	10/27/2017	Sarah Menz	1939413, 1939414, 1939415, 1939416
SOP-PCR-1.2	10/24/2017	10/24/2017 13:30	Puja Jasrotia	11/02/2017	Sarah Menz	1939413, 1939415
	10/24/2017	10/24/2017 13:30	Puja Jasrotia	11/20/2017	Sarah Menz	1939416
SOP-PCR-1.3	10/24/2017	10/24/2017 13:30	Avril Wood	11/03/2017	Sarah Menz	1939413, 1939415, 1939416
SOP-PCR-1.4	10/24/2017	10/24/2017 13:30	Puja Jasrotia	12/01/2017	Sarah Menz	1939415
SOP-PCR-4.0	10/24/2017	10/24/2017 13:30	Avril Wood	11/21/2017	Puja Jasrotia	1939413, 1939414, 1939415, 1939416, 1939417