

Biological Analysis Report

CEN-DIST-2022-01-19-01

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

Event Description: **Run 23**
Request ID: **RQ-2022-01-24-16**
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
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This Report replaces the previous Report Serial Number: 0135768

Report Comment: Unauthorized to remove duplicate QC value.

Revision certified by: Puja Jasrotia, Environmental Administrator

Date Certified: 08-MAR-2022 13:36



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: Microbiology and Molecular.

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: Bear Creek behind shopping center

Collection Date/Time: 01/18/2022 11:35

Field ID: G2CE0260

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2300304	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	488.4	Q	MPN/100 mL	P408870	
2300308	SOP-PCR-1.0	HF183-qPCR**	1.7E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.2	GULL2-qPCR**	1.8E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.3	GFD-qPCR**	4.6E+03		TSC/100 mL	P408621	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.5	DG3-qPCR**	1.3E+03	U	TSC/100 mL	P408621	

Sample Location: Lightwood Knot Canal E of 426

Collection Date/Time: 01/18/2022 11:55

Field ID: G2CE0263

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2300305	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	461.1	Q	MPN/100 mL	P408870	
2300309	SOP-PCR-1.0	HF183-qPCR**	1.7E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.2	GULL2-qPCR**	1.8E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.3	GFD-qPCR**	2.8E+03		TSC/100 mL	P408621	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.5	DG3-qPCR**	1.3E+03	U	TSC/100 mL	P408621	

Sample Location: Bear Creek at Northern Way (BERC)

Collection Date/Time: 01/18/2022 12:35

Field ID: G2CE0182

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2300306	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	290.9	Q	MPN/100 mL	P408870	
2300310	SOP-PCR-1.0	HF183-qPCR**	1.7E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.2	GULL2-qPCR**	1.8E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.3	GFD-qPCR**	1.7E+03	A	TSC/100 mL	P408621	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.5	DG3-qPCR**	1.3E+03	U	TSC/100 mL	P408621	

Sample Location: Bear Crk just north of Winter Springs Blvd in Bear Crk Par

Collection Date/Time: 01/18/2022 13:01

Field ID: G2CE0069

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2300307	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	261.3	Q	MPN/100 mL	P408870	
2300311	SOP-PCR-1.0	HF183-qPCR**	1.7E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.2	GULL2-qPCR**	1.8E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.3	GFD-qPCR**	1.7E+03	I	TSC/100 mL	P408621	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P408621	
	SOP-PCR-1.5	DG3-qPCR**	1.3E+03	U	TSC/100 mL	P408621	

Quality Assurance Report

Method Blank Results

Quality Assurance Report Method Blank Results

Reference Method: SM 9223 B Quanti-Tray
Batch ID: P408870

Component	Result	Code	Units
Escherichia Coli-Quanti-Tray	1.0	U	MPN/100 mL

Reference Method: SOP-PCR-1.0
Batch ID: P408621

Component	Result	Code	Units
HF183-qPCR	3.3E+03	U	TSC/100 mL

Reference Method: SOP-PCR-1.2
Batch ID: P408621

Component	Result	Code	Units
GULL2-qPCR	3.6E+03	U	TSC/100 mL

Reference Method: SOP-PCR-1.3
Batch ID: P408621

Component	Result	Code	Units
GFD-qPCR	720	U	TSC/100 mL

Reference Method: SOP-PCR-1.4
Batch ID: P408621

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

Reference Method: SOP-PCR-1.5
Batch ID: P408621

Component	Result	Code	Units
DG3-qPCR	2.6E+03	U	TSC/100 mL

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P408621

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	79.6	68.4	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P408621

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	75.1	94.9	P/P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P408621

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: P408621

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-qPCR	81.5	71.3	P/P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P408621

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	73.6	78.5	P/P	50 - 175

Reference Method: SOP-PCR-1.5
Batch ID: P408621

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DG3-qPCR	80.1	85.9	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P408621

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300068	HF183-qPCR	73.7	78.7	P	50 - 175
2300308	HF183-qPCR	76.6		P	50 - 175
2300309	HF183-qPCR	74.1		P	50 - 175
2300310	HF183-qPCR	86.0		P/P	50 - 175
2300311	HF183-qPCR	69.4		P	50 - 175
2300477	HF183-qPCR	73.9		P	50 - 175
2300698	HF183-qPCR	78.9		P	50 - 175
2300699	HF183-qPCR	72.8		P	50 - 175
2300891	HF183-qPCR	76.7		P	50 - 175
2300892	HF183-qPCR	73.3		P	50 - 175
2300977	HF183-qPCR	82.7		P	50 - 175
2301014	HF183-qPCR	72.6		P	50 - 175
2301272	HF183-qPCR	75.5		P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P408621

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300068	GULL2-qPCR	95.0	72.0	P	50 - 300
2300308	GULL2-qPCR	94.0		P	50 - 300
2300309	GULL2-qPCR	92.3		P	50 - 300
2300310	GULL2-qPCR	70.2		P/P	50 - 300
2300311	GULL2-qPCR	67.7		P	50 - 300
2300698	GULL2-qPCR	92.1		P	50 - 300
2300699	GULL2-qPCR	69.7		P	50 - 300
2300977	GULL2-qPCR	78.2		P	50 - 300
2301014	GULL2-qPCR	80.7		P	50 - 300
2301272	GULL2-qPCR	77.7		P	50 - 300

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.3

Batch ID: P408621

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300068	GFD-qPCR	110		P	50 - 175
2300308	GFD-qPCR	102		P	50 - 175
2300309	GFD-qPCR	101		P	50 - 175
2300310	GFD-qPCR	123	114	P/P	50 - 175
2300311	GFD-qPCR	111		P	50 - 175
2300698	GFD-qPCR	98.8		P	50 - 175
2300699	GFD-qPCR	101		P	50 - 175
2300977	GFD-qPCR	105		P	50 - 175
2301014	GFD-qPCR	84.7		P	50 - 175
2301272	GFD-qPCR	93.6		P	50 - 175

Reference Method: SOP-PCR-1.4

Batch ID: P408621

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300068	BacR-qPCR	57.0	57.0	P/P	50 - 175
2300308	BacR-qPCR	64.8	64.8	P/P	50 - 175
2300309	BacR-qPCR	71.5	71.5	P/P	50 - 175
2300310	BacR-qPCR	51.8	53.2	P/P	50 - 175
2300311	BacR-qPCR	57.8	57.8	P/P	50 - 175
2300477	BacR-qPCR	68.9	68.9	P/P	50 - 175
2300698	BacR-qPCR	68.1	68.1	P/P	50 - 175
2300699	BacR-qPCR	59.3	59.3	P/P	50 - 175
2300891	BacR-qPCR	53.4	53.4	P/P	50 - 175
2300892	BacR-qPCR	52.1	52.1	P/P	50 - 175
2300977	BacR-qPCR	65.6	65.6	P/P	50 - 175
2301014	BacR-qPCR	50.7	50.7	P/P	50 - 175
2301272	BacR-qPCR	62.9	62.9	P/P	50 - 175

Reference Method: SOP-PCR-1.5

Batch ID: P408621

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2300068	DG3-qPCR	102		P	50 - 175
2300308	DG3-qPCR	93.1		P	50 - 175
2300309	DG3-qPCR	91.9		P	50 - 175
2300310	DG3-qPCR	107	106	P/P	50 - 175
2300311	DG3-qPCR	103		P	50 - 175
2300477	DG3-qPCR	90.1		P	50 - 175
2300698	DG3-qPCR	92.6		P	50 - 175
2300699	DG3-qPCR	103		P	50 - 175
2300891	DG3-qPCR	86.9		P	50 - 175
2300892	DG3-qPCR	87.1		P	50 - 175
2300977	DG3-qPCR	92.3		P	50 - 175
2301014	DG3-qPCR	86.8		P	50 - 175
2301272	DG3-qPCR	80.1		P	50 - 175

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: SM 9223 B Quanti-Tray
 Batch ID: P408870

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300004	Escherichia Coli-Quanti-Tray	3.06	Sample	P	0 - 80
2300471	Escherichia Coli-Quanti-Tray	66.7	Sample	P	0 - 80
2300522	Escherichia Coli-Quanti-Tray	0.0	Sample	P	0 - 80

Reference Method: SOP-PCR-1.0
 Batch ID: P408621

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300310	HF183-qPCR	8.87	Spike	P	0 - 25

Reference Method: SOP-PCR-1.2
 Batch ID: P408621

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300310	GULL2-qPCR	2.57	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
 Batch ID: P408621

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300310	GFD-qPCR	7.36	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4
 Batch ID: P408621

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300310	BacR-qPCR	2.72	Spike	P	0 - 25

Reference Method: SOP-PCR-1.5
 Batch ID: P408621

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2300310	DG3-qPCR	0.907	Spike	P	0 - 25

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

Quality Assurance Report Surrogates

Lab Sample ID: 2300308
 Field Sample ID: G2CE0260

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	84.0	P	50 - 300

Quality Assurance Report Surrogates

Lab Sample ID: 2300308
Field Sample ID: G2CE0260

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.2	SKETA-qPCR	101	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	93.5	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	95.6	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	107	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	89.1	P	50 - 300

Lab Sample ID: 2300309
Field Sample ID: G2CE0263

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	85.7	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	109	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	106	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	104	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	117	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	99.3	P	50 - 300

Lab Sample ID: 2300310
Field Sample ID: G2CE0182

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	68.0	P	50 - 300
SOP-PCR-1.0	SKETA-qPCR	68.0	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	108	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	102	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	95.3	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	100	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	102	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	91.1	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	91.1	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	102	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	91.8	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	91.9	P	50 - 300

Lab Sample ID: 2300311
Field Sample ID: G2CE0069

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	73.1	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	91.8	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	91.5	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	88.0	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	98.8	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	90.2	P	50 - 300

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision	MS
				LCS SMP	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision		MS
								SMP		
SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray							3.06 0.0	66.7	
SOP-PCR-1.0	HF183-qPCR	68.4	79.6	73.7	76.6	74.1				8.87
SOP-PCR-1.2	GULL2-qPCR	94.9	75.1	95.0	94.0	92.3				2.57
SOP-PCR-1.3	GFD-qPCR	71.3	81.5	110	102	101				7.36
SOP-PCR-1.4	BacR-qPCR	78.5	73.6	57.0	64.8	71.5				2.72
SOP-PCR-1.5	DG3-qPCR	85.9	80.1	102	93.1	91.9				0.907

Reference Method Descriptions

Method	Description	Associated Samples
SM 9223 B Quanti-Tray	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems	2300304, 2300305, 2300306, 2300307
SOP-PCR-1.0	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2300308, 2300309, 2300310, 2300311
SOP-PCR-1.2	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	2300308, 2300309, 2300310, 2300311
SOP-PCR-1.3	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	2300308, 2300309, 2300310, 2300311
SOP-PCR-1.4	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	2300308, 2300309, 2300310, 2300311
SOP-PCR-1.5	Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction	2300308, 2300309, 2300310, 2300311

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 9223 B Quanti-Tray	01/19/2022	01/19/2022 16:16	Caitlyn Owens	01/20/2022 10:58	Amber S. Eells	2300304, 2300305, 2300306, 2300307
SOP-PCR-1.0	01/19/2022	01/20/2022 08:20	Luke Hudson	02/04/2022 11:18	DeAsia Armster	2300308, 2300309, 2300310, 2300311
SOP-PCR-1.2	01/19/2022	01/20/2022 08:20	Luke Hudson	02/18/2022 09:17	DeAsia Armster	2300308, 2300309, 2300310, 2300311
SOP-PCR-1.3	01/19/2022	01/20/2022 08:20	Luke Hudson	02/22/2022 09:35	DeAsia Armster	2300308, 2300309, 2300310, 2300311
SOP-PCR-1.4	01/19/2022	01/20/2022 08:20	Luke Hudson	02/14/2022 09:14	DeAsia Armster	2300308, 2300309, 2300310, 2300311
SOP-PCR-1.5	01/19/2022	01/20/2022 08:20	Luke Hudson	02/23/2022 09:46	DeAsia Armster	2300308, 2300309, 2300310, 2300311