

Biological Analysis Report

NE-DIST-2021-04-22-02

Florida Department of Environmental Protection
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Overflow Analyses Performed By:
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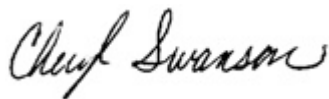
Event Description: **LSJR East 2021**
Request ID: **RQ-2021-04-12-37**
Customer: **NE-DIST**
Project ID: **SMP**

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Date Certified: 13-MAY-2021 14:58



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 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: Greenfield CR at Hodges Rd.

Collection Date/Time: 04/21/2021 09:30

Field ID: G2NE1145

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2241542	SM 10200 H (mod.)	Chlorophyll-a, Corrected	4.3		ug/L	P397214	
		Phaeophytin-a	2.0	I	ug/L	P397214	
		Chlorophyll-a, Uncorrected	5.6		ug/L	P397214	
2241547	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	921		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.

Sample Location: Greenfield Creek @ Queens Harbour Blvd.

Collection Date/Time: 04/21/2021 09:50

Field ID: 20030809

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2241541	SM 10200 H (mod.)	Chlorophyll-a, Corrected	12		ug/L	P397222	
		Phaeophytin-a	6.1		ug/L	P397222	
		Chlorophyll-a, Uncorrected	16		ug/L	P397222	
2241546	ASTM D650399	ENTEROCOCCI-ENTEROLERT	2420	J	MPN/100 mL		

Ref. Method and Comment:
ASTM D650399: All Quanti-Tray wells were positive. Result may be higher than reported, and therefore should be considered estimated.

Sample Location: Red Bay Branch at Lone Star Road

Collection Date/Time: 04/21/2021 10:25

Field ID: 20030674

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2241545	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.82	U	ug/L	P397304	
		Phaeophytin-a	0.90	U	ug/L	P397304	
		Chlorophyll-a, Uncorrected	0.78	I	ug/L	P397304	
2241550	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	579		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.

Sample Location: Drainage Ditch Parental Home Rd.

Collection Date/Time: 04/21/2021 11:00

Field ID: 20030071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2241544	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.7	I	ug/L	P397214	
		Phaeophytin-a	1.8	U	ug/L	P397214	
		Chlorophyll-a, Uncorrected	4.2		ug/L	P397214	
2241549	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	172		MPN/100 mL		
2241553	SOP-PCR-1.0	HF183-qPCR**	6.5E+03	I	TSC/100 mL	P396605	MS
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P396605	LCS
	SOP-PCR-1.5	DG3-qPCR**	1.3E+03	U	TSC/100 mL	P396605	LCS

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: Big Pottsburg CR Bowden Rd.

Collection Date/Time: 04/21/2021 11:20

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2241551	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	133		MPN/100 mL		

Sample Location: little Pottsburg Creek at Emerson

Collection Date/Time: 04/21/2021 11:45

Field ID: 20030070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2241543	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.9	I	ug/L	P397214	
		Phaeophytin-a	0.90	U	ug/L	P397214	
		Chlorophyll-a, Uncorrected	2.3		ug/L	P397214	
2241548	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	411		MPN/100 mL		
2241552	SOP-PCR-1.0	HF183-qPCR**	1.1E+03	U	TSC/100 mL	P396605	MS
	SOP-PCR-1.2	GULL2-qPCR**	1.2E+03	U	TSC/100 mL	P396605	
	SOP-PCR-1.3	GFD-qPCR**	630	I	TSC/100 mL	P396605	
	SOP-PCR-1.4	BacR-qPCR**	1.0E+03	U	TSC/100 mL	P396605	LCS
	SOP-PCR-1.5	DG3-qPCR**	860	U	TSC/100 mL	P396605	LCS

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: P397214

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.82	U	ug/L
Chlorophyll-a, Uncorrected	0.60	U	ug/L
Phaeophytin-a	0.90	U	ug/L

Reference Method: SM 10200 H (mod.)
Batch ID: P397222

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.82	U	ug/L
Chlorophyll-a, Uncorrected	0.60	U	ug/L
Phaeophytin-a	0.90	U	ug/L

Reference Method: SM 10200 H (mod.)
Batch ID: P397304

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.82	U	ug/L
Chlorophyll-a, Uncorrected	0.60	U	ug/L
Phaeophytin-a	0.90	U	ug/L

Reference Method: SOP-PCR-1.0
Batch ID: P396605

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

Quality Assurance Report Method Blank Results

Reference Method: SOP-PCR-1.2
Batch ID: P396605

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

Reference Method: SOP-PCR-1.3
Batch ID: P396605

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

Reference Method: SOP-PCR-1.4
Batch ID: P396605

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

Reference Method: SOP-PCR-1.5
Batch ID: P396605

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
Batch ID: P397214

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	100		P	84 - 116

Reference Method: SM 10200 H (mod.)
Batch ID: P397222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	92.7		P	84 - 116

Reference Method: SM 10200 H (mod.)
Batch ID: P397304

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	98.8		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P396605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	63.3	99.5	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P396605

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

Reference Method: SOP-PCR-1.2
Batch ID: P396605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	86.9	104	P/P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P396605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-qPCR	86.8	105	P/P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P396605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	77.6	31.5	P/F	50 - 175

Reference Method: SOP-PCR-1.5
Batch ID: P396605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DG3-qPCR	83.9	14.9	P/F	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P396605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2240114	HF183-qPCR	84.3	94.0	P	50 - 175
2240274	HF183-qPCR	87.9		P/P	50 - 175
2240285	HF183-qPCR	74.2	94.0	P	50 - 175
2240286	HF183-qPCR	80.9		P	50 - 175
2241115	HF183-qPCR	72.4	94.0	P	50 - 175
2241120	HF183-qPCR	82.0		P	50 - 175
2241344	HF183-qPCR	67.4	94.0	P	50 - 175
2241552	HF183-qPCR	76.4		P	50 - 175
2241553	HF183-qPCR	75.9	94.0	P	50 - 175
2241694	HF183-qPCR	74.8		P	50 - 175
2241695	HF183-qPCR	65.7	94.0	P	50 - 175
2241696	HF183-qPCR	41.8		F	50 - 175
2241697	HF183-qPCR	73.0		P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P396605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2240274	GULL2-qPCR	75.1	82.7	P/P	50 - 300
2240285	GULL2-qPCR	83.0	82.7	P	50 - 300
2240286	GULL2-qPCR	85.8		P	50 - 300
2241115	GULL2-qPCR	77.3	82.7	P	50 - 300
2241120	GULL2-qPCR	80.1		P	50 - 300
2241344	GULL2-qPCR	80.3	82.7	P	50 - 300

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.2

Batch ID: P396605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2241552	GULL2-qPCR	63.2		P	50 - 300
2241695	GULL2-qPCR	83.5		P	50 - 300
2241696	GULL2-qPCR	68.4		P	50 - 300
2241697	GULL2-qPCR	74.3		P	50 - 300

Reference Method: SOP-PCR-1.3

Batch ID: P396605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2240274	GFD-qPCR	90.9	97.8	P/P	50 - 175
2240285	GFD-qPCR	87.8		P	50 - 175
2240286	GFD-qPCR	96.1		P	50 - 175
2241115	GFD-qPCR	84.9		P	50 - 175
2241120	GFD-qPCR	88.8		P	50 - 175
2241344	GFD-qPCR	91.4		P	50 - 175
2241552	GFD-qPCR	96.0		P	50 - 175
2241695	GFD-qPCR	92.7		P	50 - 175
2241696	GFD-qPCR	86.4		P	50 - 175
2241697	GFD-qPCR	90.7		P	50 - 175

Reference Method: SOP-PCR-1.4

Batch ID: P396605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2240274	BacR-qPCR	87.8	77.0	P/P	50 - 175
2240285	BacR-qPCR	80.8		P	50 - 175
2240286	BacR-qPCR	109		P	50 - 175
2241115	BacR-qPCR	69.9		P	50 - 175
2241120	BacR-qPCR	88.4		P	50 - 175
2241344	BacR-qPCR	74.3		P	50 - 175
2241552	BacR-qPCR	91.7		P	50 - 175
2241553	BacR-qPCR	64.6		P	50 - 175
2241694	BacR-qPCR	73.2		P	50 - 175
2241695	BacR-qPCR	69.7		P	50 - 175
2241696	BacR-qPCR	65.2		P	50 - 175
2241697	BacR-qPCR	61.2		P	50 - 175

Reference Method: SOP-PCR-1.5

Batch ID: P396605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2240114	DG3-qPCR	75.8		P	50 - 175
2240274	DG3-qPCR	81.0	88.1	P/P	50 - 175
2240285	DG3-qPCR	102		P	50 - 175
2240286	DG3-qPCR	86.0		P	50 - 175
2241115	DG3-qPCR	85.0		P	50 - 175
2241120	DG3-qPCR	106		P	50 - 175
2241344	DG3-qPCR	80.9		P	50 - 175
2241552	DG3-qPCR	85.9		P	50 - 175
2241553	DG3-qPCR	90.8		P	50 - 175
2241694	DG3-qPCR	88.4		P	50 - 175
2241695	DG3-qPCR	83.2		P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.5
Batch ID: P396605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2241696	DG3-qPCR	84.4		P	50 - 175
2241697	DG3-qPCR	86.4		P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P397214

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2242540	Chlorophyll-a, Uncorrected	1.21	Sample	P	0 - 25

Reference Method: SM 10200 H (mod.)
Batch ID: P397222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2241481	Chlorophyll-a, Corrected	8.10	Sample	P	0 - 25
2241481	Chlorophyll-a, Uncorrected	7.72	Sample	P	0 - 25
2241481	Phaeophytin-a	2.74	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P396605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2240274	HF183-qPCR	6.69	Spike	P	0 - 25

Reference Method: SOP-PCR-1.2
Batch ID: P396605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2240274	GULL2-qPCR	9.61	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
Batch ID: P396605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2240274	GFD-qPCR	7.24	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P396605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2240274	BacR-qPCR	13.2	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: SOP-PCR-1.5
Batch ID: P396605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2240274	DG3-qPCR	8.31	Spike	P	0 - 25

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

Quality Assurance Report Surrogates

Lab Sample ID: 2241552
Field Sample ID: 20030070

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	98.1	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	94.1	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	101	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	88.6	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	89.8	P	50 - 300

Lab Sample ID: 2241553
Field Sample ID: 20030071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	102	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	89.4	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	93.1	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	100							
	Chlorophyll-a, Corrected	92.7						8.10	
	Chlorophyll-a, Corrected	98.8							
	Chlorophyll-a, Uncorrected							1.21	
	Chlorophyll-a, Uncorrected							7.72	
	Phaeophytin-a							2.74	
SOP-PCR-1.0	HF183-qPCR	99.5	63.3	84.3	87.9	94.0			6.69
				74.2					
SOP-PCR-1.2	GULL2-qPCR	104	86.9	74.3	75.1	82.7			9.61
				83.0					
SOP-PCR-1.3	GFD-qPCR	105	86.8	90.9	97.8	87.8			7.24
				96.1					
SOP-PCR-1.4	BacR-qPCR	31.5	77.6	87.8	77.0	80.8			13.2
				109					
SOP-PCR-1.5	DG3-qPCR	14.9	83.9	75.8	81.0	88.1			8.31
				102					

Reference Method Descriptions

Method	Description	Associated Samples
ASTM D650399	Enterococci by Enterolert/QT by ALS in Jacksonville	2241546
SM 10200 H (mod.)	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	2241541, 2241542, 2241543, 2241544, 2241545
SM 9223 B Quanti-Tray	E. coli by Colilert/QT by ALS in Jacksonville	2241547, 2241548, 2241549, 2241550, 2241551
SOP-PCR-1.0	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2241552, 2241553
SOP-PCR-1.2	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	2241552
SOP-PCR-1.3	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	2241552
SOP-PCR-1.4	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	2241552, 2241553
SOP-PCR-1.5	Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction	2241552, 2241553

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
ASTM D650399	04/21/2021	04/21/2021 14:09		04/22/2021 17:43	ALS Environmental, Jax	2241546
SM 10200 H (mod.)	04/22/2021	04/22/2021 15:14	Carina A. Tull	04/26/2021 09:47	Jessica Fetgatter	2241541
	04/22/2021	04/22/2021 15:14	Carina A. Tull	04/26/2021 16:25	Jessica Fetgatter	2241542, 2241543, 2241544
	04/22/2021	04/22/2021 15:14	Carina A. Tull	04/27/2021 14:30	Jessica Fetgatter	2241545
SM 9223 B Quanti-Tray	04/21/2021	04/21/2021 14:02		04/22/2021 17:37	ALS Environmental, Jax	2241547, 2241548, 2241549, 2241550, 2241551
SOP-PCR-1.0	04/22/2021	04/22/2021 12:30	DeAsia Armster	04/28/2021 11:22	DeAsia Armster	2241552, 2241553
SOP-PCR-1.2	04/22/2021	04/22/2021 12:30	DeAsia Armster	05/04/2021 08:24	Mailin Lopez	2241552
SOP-PCR-1.3	04/22/2021	04/22/2021 12:30	DeAsia Armster	05/04/2021 10:57	Mailin Lopez	2241552
SOP-PCR-1.4	04/22/2021	04/22/2021 12:30	DeAsia Armster	05/03/2021 12:53	Mailin Lopez	2241552, 2241553
SOP-PCR-1.5	04/22/2021	04/22/2021 12:30	DeAsia Armster	04/30/2021 08:21	Mailin Lopez	2241552, 2241553