

Biological Analysis Report

SE-DIST-2024-06-07-02

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

Event Description: **SMP - Fort Drum F1**
Request ID: **RQ-2024-05-06-31**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
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Certified by: Sarah Menz, Environmental Administrator

Date Certified: 18-JUL-2024 15:38

A handwritten signature in dark ink, appearing to be 'Sarah Menz', with a long, sweeping horizontal stroke extending to the right.

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, 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: C 25 WEST OF S99

Collection Date/Time: 06/06/2024 12:45

Field ID: G2SE0057

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492461	SM 10150 B	Chlorophyll-a, Corrected	48		ug/L	P447137	
		Phaeophytin-a	2.6	I	ug/L	P447137	
		Chlorophyll-a, Uncorrected	52		ug/L	P447137	
2492464	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	10.0	UQ	MPN/100 mL	P446370	
2492467	SOP-PCR-1.0	HF183-qPCR**	1.7E+03	U	TSC/100 mL	P445986	
	SOP-PCR-1.2	GULL2-qPCR**	1.8E+03	U	TSC/100 mL	P445986	
	SOP-PCR-1.3	GFD-qPCR**	420	I	TSC/100 mL	P445986	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P445986	
	SOP-PCR-1.5	DG3-qPCR**	1.3E+03	U	TSC/100 mL	P445986	

Ref. Method and Comment:

SM 10150 B: 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: BELCHER CANAL NEAR JOHNSTON RD

Collection Date/Time: 06/06/2024 13:10

Field ID: g5se0149

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492462	SM 10150 B	Chlorophyll-a, Corrected	52		ug/L	P447156	
		Phaeophytin-a	5.1	I	ug/L	P447156	
		Chlorophyll-a, Uncorrected	56		ug/L	P447156	
2492465	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	7.5	Q	MPN/100 mL	P446370	
2492468	SOP-PCR-1.0	HF183-qPCR**	1.7E+03	U	TSC/100 mL	P445986	
	SOP-PCR-1.2	GULL2-qPCR**	1.8E+03	U	TSC/100 mL	P445986	
	SOP-PCR-1.3	GFD-qPCR**	360	U	TSC/100 mL	P445986	
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P445986	
	SOP-PCR-1.5	DG3-qPCR**	1.3E+03	U	TSC/100 mL	P445986	

Ref. Method and Comment:

SM 10150 B: 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: FORT PIERCE FARM CANAL AT TAYLOR DAIRY

Collection Date/Time: 06/06/2024 13:30

Field ID: G2SE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2492460	SM 10150 B	Chlorophyll-a, Corrected	35		ug/L	P447137	
		Phaeophytin-a	1.4	U	ug/L	P447137	
		Chlorophyll-a, Uncorrected	37		ug/L	P447137	
2492463	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	10.0	UQ	MPN/100 mL	P446370	
2492466	SOP-PCR-1.0	HF183-qPCR**	1.1E+03	U	TSC/100 mL	P445986	
	SOP-PCR-1.2	GULL2-qPCR**	1.2E+03	U	TSC/100 mL	P445986	
	SOP-PCR-1.3	GFD-qPCR**	240	U	TSC/100 mL	P445986	
	SOP-PCR-1.4	BacR-qPCR**	1.0E+03	U	TSC/100 mL	P445986	
	SOP-PCR-1.5	DG3-qPCR**	860	U	TSC/100 mL	P445986	

Ref. Method and Comment:

SM 10150 B: 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 10150 B
Batch ID: P447137

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.93	U	ug/L
Chlorophyll-a, Uncorrected	0.68	U	ug/L
Phaeophytin-a	1.0	U	ug/L

Reference Method: SM 10150 B
Batch ID: P447156

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.93	U	ug/L
Chlorophyll-a, Uncorrected	0.68	U	ug/L
Phaeophytin-a	1.0	U	ug/L

Reference Method: SM 9223 B Quanti-Tray
Batch ID: P446370

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

Reference Method: SOP-PCR-1.0
Batch ID: P445986

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

Reference Method: SOP-PCR-1.2
Batch ID: P445986

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

Reference Method: SOP-PCR-1.3
Batch ID: P445986

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

Reference Method: SOP-PCR-1.4
Batch ID: P445986

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

Reference Method: SOP-PCR-1.5
Batch ID: P445986

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 10150 B
Batch ID: P447137

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	113		P	84 - 116

Reference Method: SM 10150 B
Batch ID: P447156

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	112		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P445986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	92.0	83.4	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P445986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	90.0	82.4	P/P	50 - 175

Reference Method: SOP-PCR-1.3
Batch ID: P445986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-qPCR	83.4	84.6	P/P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P445986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	63.4	86.1	P/P	50 - 175

Reference Method: SOP-PCR-1.5
Batch ID: P445986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DG3-qPCR	94.4	79.5	P/P	50 - 175

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P445986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2490911	HF183-qPCR	93.3	90.3	P/P	50 - 175
2490912	HF183-qPCR	100		P	50 - 175
2491120	HF183-qPCR	86.6		P	50 - 175
2492296	HF183-qPCR	84.5		P	50 - 175
2492297	HF183-qPCR	90.1		P	50 - 175
2492466	HF183-qPCR	86.9		P	50 - 175

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0

Batch ID: P445986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492467	HF183-qPCR	85.8		P	50 - 175
2492468	HF183-qPCR	97.4		P	50 - 175
2493115	HF183-qPCR	91.0		P	50 - 175
2493116	HF183-qPCR	80.5		P	50 - 175
2493117	HF183-qPCR	89.2		P	50 - 175
2493118	HF183-qPCR	80.7		P	50 - 175
2493119	HF183-qPCR	90.8		P	50 - 175

Reference Method: SOP-PCR-1.2

Batch ID: P445986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2490911	GULL2-qPCR	80.2	82.9	P/P	50 - 175
2490912	GULL2-qPCR	81.8		P	50 - 175
2492296	GULL2-qPCR	55.7		P	50 - 175
2492297	GULL2-qPCR	91.9		P	50 - 175
2492466	GULL2-qPCR	75.9		P	50 - 175
2492467	GULL2-qPCR	74.2		P	50 - 175
2492468	GULL2-qPCR	78.0		P	50 - 175
2493115	GULL2-qPCR	76.5		P	50 - 175
2493116	GULL2-qPCR	67.0		P	50 - 175
2493117	GULL2-qPCR	73.1		P	50 - 175
2493118	GULL2-qPCR	57.1		P	50 - 175
2493119	GULL2-qPCR	87.6		P	50 - 175

Reference Method: SOP-PCR-1.3

Batch ID: P445986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2490911	GFD-qPCR	89.5	89.2	P/P	50 - 175
2490912	GFD-qPCR	91.6		P	50 - 175
2492296	GFD-qPCR	76.6		P	50 - 175
2492297	GFD-qPCR	90.0		P	50 - 175
2492466	GFD-qPCR	81.7		P	50 - 175
2492467	GFD-qPCR	76.1		P	50 - 175
2492468	GFD-qPCR	83.6		P	50 - 175
2493115	GFD-qPCR	95.1		P	50 - 175
2493116	GFD-qPCR	73.4		P	50 - 175
2493117	GFD-qPCR	92.3		P	50 - 175
2493118	GFD-qPCR	76.1		P	50 - 175
2493119	GFD-qPCR	79.3		P	50 - 175

Reference Method: SOP-PCR-1.4

Batch ID: P445986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2490911	BacR-qPCR	77.8	80.8	P/P	50 - 175
2490912	BacR-qPCR	90.9		P	50 - 175
2491120	BacR-qPCR	68.8		P	50 - 175
2492296	BacR-qPCR	68.3		P	50 - 175
2492297	BacR-qPCR	75.9		P	50 - 175
2492466	BacR-qPCR	86.1		P	50 - 175

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SOP-PCR-1.4

Batch ID: P445986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492467	BacR-qPCR	87.6		P	50 - 175
2492468	BacR-qPCR	83.9		P	50 - 175
2493115	BacR-qPCR	72.3		P	50 - 175
2493116	BacR-qPCR	80.3		P	50 - 175
2493117	BacR-qPCR	81.1		P	50 - 175
2493118	BacR-qPCR	69.6		P	50 - 175
2493119	BacR-qPCR	90.7		P	50 - 175

Reference Method: SOP-PCR-1.5

Batch ID: P445986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2490911	DG3-qPCR	90.5	95.0	P/P	50 - 175
2490912	DG3-qPCR	105		P	50 - 175
2491120	DG3-qPCR	96.2		P	50 - 175
2492296	DG3-qPCR	88.0		P	50 - 175
2492297	DG3-qPCR	89.7		P	50 - 175
2492466	DG3-qPCR	85.8		P	50 - 175
2492467	DG3-qPCR	94.4		P	50 - 175
2492468	DG3-qPCR	96.9		P	50 - 175
2493115	DG3-qPCR	95.6		P	50 - 175
2493116	DG3-qPCR	91.7		P	50 - 175
2493117	DG3-qPCR	98.1		P	50 - 175
2493118	DG3-qPCR	76.9		P	50 - 175
2493119	DG3-qPCR	86.5		P	50 - 175

Quality Assurance Report

Precision

Reference Method: SM 10150 B

Batch ID: P447156

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492486	Chlorophyll-a, Corrected	0.790	Sample	P	0 - 25
2492486	Chlorophyll-a, Uncorrected	0.412	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0

Batch ID: P445986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2490911	HF183-qPCR	3.20	Spike	P	0 - 25

Reference Method: SOP-PCR-1.2

Batch ID: P445986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2490911	GULL2-qPCR	3.30	Spike	P	0 - 25

Quality Assurance Report
Precision

Reference Method: SOP-PCR-1.3
Batch ID: P445986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2490911	GFD-qPCR	0.339	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P445986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2490911	BacR-qPCR	3.77	Spike	P	0 - 25

Reference Method: SOP-PCR-1.5
Batch ID: P445986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2490911	DG3-qPCR	4.89	Spike	P	0 - 25

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2492466
Field Sample ID: G2SE0002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	133	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	134	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	138	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	126	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	114	P	50 - 300

Lab Sample ID: 2492467
Field Sample ID: G2SE0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	137	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	139	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	140	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	139	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	121	P	50 - 300

Lab Sample ID: 2492468
Field Sample ID: g5se0149

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	128	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	121	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	131	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	122	P	50 - 300

Quality Assurance Report

Surrogates

Lab Sample ID: 2492468

Field Sample ID: g5se0149

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.5	SKETA-qPCR	108	P	50 - 300

Quality Assurance Report

Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
SM 10150 B	Chlorophyll-a, Corrected	113							
	Chlorophyll-a, Corrected	112						0.790	
	Chlorophyll-a, Uncorrected							0.412	
SOP-PCR-1.0	HF183-qPCR	83.4	92.0	86.6	84.5	93.3			3.20
SOP-PCR-1.2	GULL2-qPCR	82.4	90.0	90.3	80.2	82.9	81.8		3.30
				55.7					
SOP-PCR-1.3	GFD-qPCR	84.6	83.4	89.5	89.2	91.6			0.339
				76.6					
SOP-PCR-1.4	BacR-qPCR	86.1	63.4	77.8	80.8	90.9			3.77
				68.8					
SOP-PCR-1.5	DG3-qPCR	79.5	94.4	90.5	95.0	105			4.89
				96.2					

Reference Method Descriptions

Method	Description	Associated Samples
SM 10150 B	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	2492460, 2492461, 2492462
SM 9223 B Quanti-Tray	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems	2492463, 2492464, 2492465
SOP-PCR-1.0	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2492466, 2492467, 2492468
SOP-PCR-1.2	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	2492466, 2492467, 2492468
SOP-PCR-1.3	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	2492466, 2492467, 2492468
SOP-PCR-1.4	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	2492466, 2492467, 2492468
SOP-PCR-1.5	Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction	2492466, 2492467, 2492468

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 10150 B	06/07/2024	06/07/2024 14:36	Keanu Thijm	06/24/2024 10:19	Julia Herten	2492460, 2492461
	06/07/2024	06/07/2024 14:36	Keanu Thijm	06/24/2024 15:20	Julia Herten	2492462
SM 9223 B Quanti-Tray	06/07/2024	06/07/2024 16:30	Megan Higbee	06/08/2024 12:15	Megan Higbee	2492463, 2492464, 2492465
SOP-PCR-1.0	06/07/2024	06/07/2024 11:55	Madeline Gruver	06/18/2024 08:30	Roberta Tatti	2492466
	06/07/2024	06/07/2024 12:56	Madeline Gruver	06/18/2024 08:30	Roberta Tatti	2492467, 2492468
SOP-PCR-1.2	06/07/2024	06/07/2024 11:55	Madeline Gruver	06/25/2024 17:13	Madeline Gruver	2492466
	06/07/2024	06/07/2024 12:56	Madeline Gruver	06/25/2024 17:13	Madeline Gruver	2492467, 2492468
SOP-PCR-1.3	06/07/2024	06/07/2024 11:55	Madeline Gruver	06/25/2024 14:31	Madeline Gruver	2492466
	06/07/2024	06/07/2024 12:56	Madeline Gruver	06/25/2024 14:31	Madeline Gruver	2492467, 2492468
SOP-PCR-1.4	06/07/2024	06/07/2024 11:55	Madeline Gruver	06/19/2024 09:06	Roberta Tatti	2492466
	06/07/2024	06/07/2024 12:56	Madeline Gruver	06/19/2024 09:06	Roberta Tatti	2492467, 2492468
SOP-PCR-1.5	06/07/2024	06/07/2024 11:55	Madeline Gruver	06/21/2024 09:26	Roberta Tatti	2492466
	06/07/2024	06/07/2024 12:56	Madeline Gruver	06/21/2024 09:26	Roberta Tatti	2492467, 2492468