

Biological Analysis Report

NW-DIST-2021-05-20-01

Florida Department of Environmental Protection
Central Laboratory
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Tallahassee, FL 32399-2400
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Pensacola, FL 32514
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Eurofins TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
DOH Accreditation E81010

Event Description: **Twin Lakes Run**
Request ID: **RQ-2021-05-17-61**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 208
Pensacola, FL 32502-5794
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Certified by: Puja Jasrotia, Environmental Administrator

Date Certified: 10-JUN-2021 13:04



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: Allen Lake Input

Collection Date/Time: 05/19/2021 10:20

Field ID: G3NW0177

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2248894	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	5172		MPN/100 mL		
2248895	SOP-PCR-1.0	HF183-qPCR**	1.7E+03	U	TSC/100 mL	P397905	
	SOP-PCR-1.2	GULL2-qPCR**	3.6E+03	U	TSC/100 mL	P397905	
	SOP-PCR-1.3	GFD-qPCR**	1.5E+03	I	TSC/100 mL	P397905	
	SOP-PCR-1.4	BacR-qPCR**	3.0E+03	U	TSC/100 mL	P397905	
	SOP-PCR-1.5	DG3-qPCR**	2.6E+03	U	TSC/100 mL	P397905	

Sample Location: Twin Lake Eastern Lake

Collection Date/Time: 05/19/2021 12:05

Field ID: G3NW0449

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2248879	SM 10200 H (mod.)	Chlorophyll-a, Corrected	110		ug/L	P399250	
		Phaeophytin-a	2.2	U	ug/L	P399250	
		Chlorophyll-a, Uncorrected	110		ug/L	P399250	
2248884	SM 9222 D	Fecal Coliforms-Membrane Filter	2.00	U	cfu/100 mL		
2248889	Enterolert/QT	Enterococci-Quanti-Tray	20		MPN/100 mL		
	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	10	U	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: Twin Lake South Lobe

Collection Date/Time: 05/19/2021 11:37

Field ID: G3NW0448

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2248880	SM 10200 H (mod.)	Chlorophyll-a, Corrected	25		ug/L	P399250	
		Phaeophytin-a	2.1	I	ug/L	P399250	
		Chlorophyll-a, Uncorrected	28		ug/L	P399250	
2248885	SM 9222 D	Fecal Coliforms-Membrane Filter	26.0	B	cfu/100 mL		
2248890	Enterolert/QT	Enterococci-Quanti-Tray	20		MPN/100 mL		
	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	41		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: Twin Lake

Collection Date/Time: 05/19/2021 11:30

Field ID: G3NW0215

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2248881	SM 10200 H (mod.)	Chlorophyll-a, Corrected	26		ug/L	P399250	
		Phaeophytin-a	2.8		ug/L	P399250	
		Chlorophyll-a, Uncorrected	28		ug/L	P399250	
2248886	SM 9222 D	Fecal Coliforms-Membrane Filter	204		cfu/100 mL		
2248891	Enterolert/QT	Enterococci-Quanti-Tray	228		MPN/100 mL		
	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	169		MPN/100 mL		

Field ID: G3NW0215

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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: Kell-Aire Lake

Collection Date/Time: 05/19/2021 13:00

Field ID: G3NW0217

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2248882	SM 10200 H (mod.)	Chlorophyll-a, Corrected	130		ug/L	P398937	
		Phaeophytin-a	4.6	I	ug/L	P398937	
		Chlorophyll-a, Uncorrected	140		ug/L	P398937	
2248887	SM 9222 D	Fecal Coliforms-Membrane Filter	12.0	B	cfu/100 mL		
2248892	Enterolert/QT	Enterococci-Quanti-Tray	31		MPN/100 mL		
	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	10	U	MPN/100 mL		

Sample Location: Coleman Lake

Collection Date/Time: 05/19/2021 12:50

Field ID: G3NW0216

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2248883	SM 10200 H (mod.)	Chlorophyll-a, Corrected	85		ug/L	P398937	
		Phaeophytin-a	4.2	I	ug/L	P398937	
		Chlorophyll-a, Uncorrected	90		ug/L	P398937	
2248888	SM 9222 D	Fecal Coliforms-Membrane Filter	77.0		cfu/100 mL		
2248893	Enterolert/QT	Enterococci-Quanti-Tray	10		MPN/100 mL		
	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	52		MPN/100 mL		

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)
 Batch ID: P398937

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: P399250

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: P397905

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: P397905

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

Reference Method: SOP-PCR-1.3
Batch ID: P397905

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

Reference Method: SOP-PCR-1.4
Batch ID: P397905

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

Reference Method: SOP-PCR-1.5
Batch ID: P397905

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: P398937

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	107		P	84 - 116

Reference Method: SM 10200 H (mod.)
Batch ID: P399250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	102		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P397905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	84.4	108	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P397905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	113	99.7	P/P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P397905

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: P397905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-qPCR	127	100	P/P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P397905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	83.2	77.6	P/P	50 - 175

Reference Method: SOP-PCR-1.5
Batch ID: P397905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DG3-qPCR	80.6	76.3	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P397905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2246289	HF183-qPCR	65.9	82.4	P	50 - 175
2246290	HF183-qPCR	73.7		P	50 - 175
2246568	HF183-qPCR	85.4		P/P	50 - 175
2247950	HF183-qPCR	95.6		P	50 - 175
2247951	HF183-qPCR	73.5	82.4	P	50 - 175
2248515	HF183-qPCR	67.7		P	50 - 175
2248516	HF183-qPCR	66.5		P	50 - 175
2248895	HF183-qPCR	65.6		P	50 - 175
2249007	HF183-qPCR	83.9	82.4	P	50 - 175
2249008	HF183-qPCR	78.6		P	50 - 175
2249084	HF183-qPCR	86.7		P	50 - 175
2249175	HF183-qPCR	87.6		P	50 - 175
2249273	HF183-qPCR	75.2	82.4	P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P397905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2246568	GULL2-qPCR	50.9	52.3	P/P	50 - 300
2247950	GULL2-qPCR	82.5		P	50 - 300
2247951	GULL2-qPCR	71.9		P	50 - 300
2248516	GULL2-qPCR	93.3		P	50 - 300
2248895	GULL2-qPCR	93.4	52.3	P	50 - 300
2249007	GULL2-qPCR	75.5		P	50 - 300
2249008	GULL2-qPCR	75.2		P	50 - 300
2249084	GULL2-qPCR	72.0		P	50 - 300
2249175	GULL2-qPCR	91.8	52.3	P	50 - 300
2249273	GULL2-qPCR	67.7		P	50 - 300

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.3

Batch ID: P397905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2246568	GFD-qPCR	92.4	93.6	P/P	50 - 175
2247950	GFD-qPCR	96.4		P	50 - 175
2247951	GFD-qPCR	95.0		P	50 - 175
2248516	GFD-qPCR	94.6		P	50 - 175
2248895	GFD-qPCR	102		P	50 - 175
2249007	GFD-qPCR	89.5		P	50 - 175
2249008	GFD-qPCR	87.6		P	50 - 175
2249084	GFD-qPCR	93.2		P	50 - 175
2249175	GFD-qPCR	101		P	50 - 175
2249273	GFD-qPCR	86.4		P	50 - 175

Reference Method: SOP-PCR-1.4

Batch ID: P397905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2246289	BacR-qPCR	82.8		P	50 - 175
2246290	BacR-qPCR	82.2		P	50 - 175
2246568	BacR-qPCR	69.4	64.8	P/P	50 - 175
2247950	BacR-qPCR	95.8		P	50 - 175
2247951	BacR-qPCR	60.9		P	50 - 175
2248515	BacR-qPCR	59.4		P	50 - 175
2248516	BacR-qPCR	73.5		P	50 - 175
2248895	BacR-qPCR	68.2		P	50 - 175
2249007	BacR-qPCR	84.8		P	50 - 175
2249008	BacR-qPCR	79.8		P	50 - 175
2249084	BacR-qPCR	73.8		P	50 - 175
2249175	BacR-qPCR	83.5		P	50 - 175
2249273	BacR-qPCR	53.6		P	50 - 175

Reference Method: SOP-PCR-1.5

Batch ID: P397905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2246289	DG3-qPCR	76.7		P	50 - 175
2246290	DG3-qPCR	75.3		P	50 - 175
2246568	DG3-qPCR	65.2	66.5	P/P	50 - 175
2247950	DG3-qPCR	89.6		P	50 - 175
2247951	DG3-qPCR	74.1		P	50 - 175
2248515	DG3-qPCR	72.9		P	50 - 175
2248516	DG3-qPCR	69.3		P	50 - 175
2248895	DG3-qPCR	65.9		P	50 - 175
2249007	DG3-qPCR	75.0		P	50 - 175
2249008	DG3-qPCR	73.1		P	50 - 175
2249084	DG3-qPCR	75.1		P	50 - 175
2249175	DG3-qPCR	77.2		P	50 - 175
2249273	DG3-qPCR	70.3		P	50 - 175

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P398937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2248927	Chlorophyll-a, Corrected	6.97	Sample	P	0 - 25
2248927	Chlorophyll-a, Uncorrected	6.64	Sample	P	0 - 25
2248927	Phaeophytin-a	4.13	Sample	P	0 - 25

Reference Method: SM 10200 H (mod.)
Batch ID: P399250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2249074	Chlorophyll-a, Corrected	1.71	Sample	P	0 - 25
2249074	Chlorophyll-a, Uncorrected	0.351	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P397905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2246568	HF183-qPCR	3.60	Spike	P	0 - 25

Reference Method: SOP-PCR-1.2
Batch ID: P397905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2246568	GULL2-qPCR	2.76	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
Batch ID: P397905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2246568	GFD-qPCR	1.30	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P397905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2246568	BacR-qPCR	6.85	Spike	P	0 - 25

Reference Method: SOP-PCR-1.5
Batch ID: P397905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2246568	DG3-qPCR	1.93	Spike	P	0 - 25

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

Quality Assurance Report Surrogates

Lab Sample ID: 2248895
 Field Sample ID: G3NW0177

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	71.2	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	95.4	P	50 - 300
SOP-PCR-1.3	SKETA-qPCR	97.4	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	98.5	P	50 - 300
SOP-PCR-1.5	SKETA-qPCR	92.8	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	107						6.97	
	Chlorophyll-a, Corrected	102						1.71	
	Chlorophyll-a, Uncorrected							6.64	
	Chlorophyll-a, Uncorrected							0.351	
	Phaeophytin-a							4.13	
SOP-PCR-1.0	HF183-qPCR	108	84.4	65.9	73.7	85.4			3.60
SOP-PCR-1.2	GULL2-qPCR	99.7	113	50.9	52.3	82.5			2.76
SOP-PCR-1.3	GFD-qPCR	100	127	92.4	93.6	96.4			1.30
SOP-PCR-1.4	BacR-qPCR	83.2	77.6	73.8	79.8	83.5			6.85
SOP-PCR-1.5	DG3-qPCR	76.3	80.6	76.7	75.3	65.2			1.93
				66.5					

Reference Method Descriptions

Method	Description	Associated Samples
Enterolert/QT	Enterococci by Enterolert/QT by UWF in Pensacola	2248889, 2248890, 2248891, 2248892, 2248893
SM 10200 H (mod.)	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	2248879, 2248880, 2248881, 2248882, 2248883
SM 9222 D	Fecal coliforms by MF by Test America in Pensacola	2248884, 2248885, 2248886, 2248887, 2248888
SM 9223 B Quanti-Tray	E. coli by Colilert-18/QT by UWF in Pensacola	2248889, 2248890, 2248891, 2248892, 2248893, 2248894
SOP-PCR-1.0	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2248895
SOP-PCR-1.2	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	2248895
SOP-PCR-1.3	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	2248895
SOP-PCR-1.4	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	2248895
SOP-PCR-1.5	Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction	2248895

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
Enterolert/QT	05/19/2021	05/19/2021 16:20		05/20/2021 16:45	UWF Lab	2248889, 2248890, 2248891, 2248892, 2248893
SM 10200 H (mod.)	05/20/2021	05/20/2021 16:00	Carina A. Tull	05/27/2021 08:54	Jessica Fetgatter	2248882, 2248883
	05/20/2021	05/21/2021 09:11	Jennifer Mihalic	06/01/2021 15:39	Jessica Fetgatter	2248879, 2248880, 2248881
SM 9222 D	05/19/2021	05/19/2021 16:20		05/20/2021 16:02	TestAmerica Pensacola	2248884, 2248885, 2248886, 2248887, 2248888
SM 9223 B Quanti-Tray	05/19/2021	05/19/2021 16:30		05/20/2021 13:07	UWF Lab	2248889, 2248890, 2248891, 2248892, 2248893, 2248894
SOP-PCR-1.0	05/20/2021	05/20/2021 13:40	DeAsia Armster	05/28/2021 10:39	DeAsia Armster	2248895
SOP-PCR-1.2	05/20/2021	05/20/2021 13:40	DeAsia Armster	06/03/2021 11:14	Mailin Lopez	2248895
SOP-PCR-1.3	05/20/2021	05/20/2021 13:40	DeAsia Armster	06/03/2021 13:39	Mailin Lopez	2248895
SOP-PCR-1.4	05/20/2021	05/20/2021 13:40	DeAsia Armster	06/01/2021 14:56	DeAsia Armster	2248895
SOP-PCR-1.5	05/20/2021	05/20/2021 13:40	DeAsia Armster	06/02/2021 12:25	DeAsia Armster	2248895