

Biological Analysis Report

TLH-ROC-2018-03-22-02

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

Event Description: **A-b/t/m**
Request ID: **RQ-2018-02-26-64**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Michael Eckles

For additional information please contact
Cheryl Swanson - Administrator
J. Marshall Faircloth - Aquatic Toxicology
Jacqueline Savage - Bench Biology
Jacqueline Savage - Microbiology
Puja Jasrotia, Ph.D. - Molecular Biology
Cheryl Swanson - Taxonomy (Invertebrate & Algal)
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8177

Certified by: Puja Jasrotia, Environmental Manager

Date Certified: 08-MAY-2018 13:20

A handwritten signature in black ink, appearing to be 'Puja Jasrotia', with a horizontal line underneath it.

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 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: SPRING CREEK AT US98

Collection Date/Time: 03/22/2018 11:15

Field ID: G1TLHR0084

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977086	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.82	I	ug/L	P342317	
		Phaeophytin-a	0.40	U	ug/L	P342317	
		Chlorophyll-a, Uncorrected	1.0	I	ug/L	P342317	
1977090	SM 9222 D	Fecal Coliforms-Membrane Filter	56		cfu/100 mL	P342229	
1977094	SOP-PCR-1.0	HF183-qPCR**	94	U	GEU/100 mL	P343695	
	SOP-PCR-1.4	BacR-qPCR**	200	T	TSC/100 mL	P343695	LCS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

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.

SM 9222 D: Laboratory duplicate result is 90 B. Precision data for this duplicate is unavailable due to the colony count falling outside of method acceptable range.

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

SOP-PCR-1.4: Precision data unavailable for Analysis Batch A83390.

Sample Location: WOODS CREEK AT OSTEEN RD

Collection Date/Time: 03/22/2018 11:30

Field ID: G1TLHR0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977087	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.4	A	ug/L	P342317	
		Phaeophytin-a	0.48	I	ug/L	P342317	
		Chlorophyll-a, Uncorrected	3.8	A	ug/L	P342317	
1977091	SM 9222 D	Fecal Coliforms-Membrane Filter	62		cfu/100 mL	P342229	
1977095	SOP-PCR-1.0	HF183-qPCR**	94	U	GEU/100 mL	P343695	
	SOP-PCR-1.4	BacR-qPCR**	360	T	TSC/100 mL	P343695	LCS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Ref. Method and Comment:

SM 10200 H (mod.): Laboratory duplicate result is 0.40 U for Phaeophytin-a. Precision data is unavailable due to the small amount of analyte in the QC sample.

SM 9222 D: Precision data for QC sample is unavailable due to the colony count falling outside of method acceptable range.

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

SOP-PCR-1.4: Precision data unavailable for Analysis Batch A83390.

Sample Location: SWEETWATER BRANCH @ CODY CHURCH RD Collection Date/Time: 03/22/2018 13:45

Field ID: G1TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977088	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.1	U	ug/L	P342317	
		Phaeophytin-a	0.80	U	ug/L	P342317	
		Chlorophyll-a, Uncorrected	0.92	I	ug/L	P342317	
1977092	SM 9222 D	Fecal Coliforms-Membrane Filter	290		cfu/100 mL	P342229	
1977096	SOP-PCR-1.0	HF183-qPCR**	280	U	GEU/100 mL	P343695	
	SOP-PCR-1.2	GULL2-qPCR**	1.7E+04	U	TSC/100 mL	P343695	LCS
	SOP-PCR-1.3	GFD-purified-qPCR**	250	I	TSC/100 mL	P343720	LCS
	SOP-PCR-1.4	BacR-qPCR**	3.0E+03	U	TSC/100 mL	P343695	LCS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Field ID: G1TLHR0040

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.							
SM 9222 D: Precision data for QC sample is unavailable due to the colony count falling outside of method acceptable range.							
SOP-PCR-1.0: No amplification of HF183 marker.							
SOP-PCR-1.2: No amplification of GULL2 marker. Precision data unavailable for Analysis Batch A83398.							
SOP-PCR-1.4: No amplification of BACR marker. Precision data unavailable for Analysis Batch A83390.							

Sample Location: MOOREBRANCH@CODYCHURCHRD

Collection Date/Time: 03/22/2018 14:05

Field ID: G1TLHR0041

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1977089	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.1	U	ug/L	P342320	
		Phaeophytin-a	0.80	U	ug/L	P342320	
		Chlorophyll-a, Uncorrected	0.80	U	ug/L	P342320	
1977093	SM 9222 D	Fecal Coliforms-Membrane Filter	350		cfu/100 mL	P342229	
1977097	SOP-PCR-1.0	HF183-qPCR**	280	U	GEU/100 mL	P343695	
	SOP-PCR-1.2	GULL2-purified-qPCR**	1.4E+03	UJ	TSC/100 mL	P343720	LCS, SUR
	SOP-PCR-1.3	GFD-purified-qPCR**	170	U	TSC/100 mL	P343720	LCS
	SOP-PCR-1.4	BacR-qPCR**	3.0E+03	U	TSC/100 mL	P343695	LCS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

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.

SM 9222 D: Precision data for QC sample is unavailable due to the colony count falling outside of method acceptable range.

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

SOP-PCR-1.2: No amplification of PURG2 marker. Quality control failure(s) observed. See QA report for details.

SOP-PCR-1.3: No amplification of GFD marker.

SOP-PCR-1.4: No amplification of BACR marker. Precision data unavailable for Analysis Batch A83390.

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)

Batch ID: P342317

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

Reference Method: SM 10200 H (mod.)

Batch ID: P342320

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

Reference Method: SM 9222 D

Batch ID: P342229

Component	Result	Code	Units
Fecal Coliforms-Membrane Filter	2	U	cfu/100 mL

Quality Assurance Report Method Blank Results

Reference Method: SOP-PCR-1.0
Batch ID: P343695

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

Reference Method: SOP-PCR-1.2
Batch ID: P343695

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

Reference Method: SOP-PCR-1.2
Batch ID: P343720

Component	Result	Code	Units
GULL2-purified-qPCR	2.8E+03	U	TSC/100 mL

Reference Method: SOP-PCR-1.3
Batch ID: P343720

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

Reference Method: SOP-PCR-1.4
Batch ID: P343695

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
Batch ID: P342317

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	98.9		P	84 - 116

Reference Method: SM 10200 H (mod.)
Batch ID: P342320

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	101		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P343695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	121	79.5	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P343695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
-----------	---------	---------	-----------	----------------

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SOP-PCR-1.2
Batch ID: P343695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	97.1	48.3	P/F	50 - 300

Reference Method: SOP-PCR-1.2
Batch ID: P343720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-purified-qPCR	73.7	9.95	P/F	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P343720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-purified-qPCR	20.1	34.1	F/F	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P343695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	117	35.2	P/F	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P343695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1975972	HF183-qPCR	117		P	50 - 175
1976130	HF183-qPCR	98.8	94.3	P/P	50 - 175
1976661	HF183-qPCR	87.9		P	50 - 175
1976662	HF183-qPCR	96.7		P	50 - 175
1976663	HF183-qPCR	94.3		P	50 - 175
1976664	HF183-qPCR	96.7		P	50 - 175
1976665	HF183-qPCR	80.7		P	50 - 175
1976666	HF183-qPCR	95.4		P	50 - 175
1977094	HF183-qPCR	101		P	50 - 175
1977095	HF183-qPCR	102		P	50 - 175
1977096	HF183-qPCR	99.4		P	50 - 175
1977097	HF183-qPCR	80.2		P	50 - 175
1978233	HF183-qPCR	81.0		P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P343695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1975972	GULL2-qPCR	53.7		P	50 - 300
1976662	GULL2-qPCR	74.5		P	50 - 300
1976664	GULL2-qPCR	72.2		P	50 - 300
1977096	GULL2-qPCR	86.2		P	50 - 300

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.2
Batch ID: P343720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1977097	GULL2-purified-qPCR	74.2	58.4	P/P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P343720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1974755	GFD-purified-qPCR	119		P	50 - 175
1975972	GFD-purified-qPCR	95.5		P	50 - 175
1976664	GFD-purified-qPCR	156		P	50 - 175
1977096	GFD-purified-qPCR	83.4		P	50 - 175
1977097	GFD-purified-qPCR	119	153	P/P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P343695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1975972	BacR-qPCR	77.8		P	50 - 175
1976662	BacR-qPCR	66.4		P	50 - 175
1976664	BacR-qPCR	94.7		P	50 - 175
1977094	BacR-qPCR	82.8		P	50 - 175
1977095	BacR-qPCR	70.2		P	50 - 175
1977096	BacR-qPCR	68.6		P	50 - 175
1977097	BacR-qPCR	57.3		P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P342317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977087	Chlorophyll-a, Corrected	3.67	Sample	P	0 - 25
1977087	Chlorophyll-a, Uncorrected	1.28	Sample	P	0 - 25

Reference Method: SM 10200 H (mod.)
Batch ID: P342320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977208	Chlorophyll-a, Corrected	3.73	Sample	P	0 - 25
1977208	Chlorophyll-a, Uncorrected	3.83	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P343695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1976130	HF183-qPCR	4.65	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: SOP-PCR-1.2
Batch ID: P343720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977097	GULL2-purified-qPCR	23.8	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
Batch ID: P343720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1977097	GFD-purified-qPCR	24.8	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

Lab Sample ID: 1977094
Field Sample ID: G1TLHR0084

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	111	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	103	P	50 - 300

Lab Sample ID: 1977095
Field Sample ID: G1TLHR0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	105	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	96.2	P	50 - 300

Lab Sample ID: 1977096
Field Sample ID: G1TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	107	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	97.4	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	89.9	P	50 - 300

Lab Sample ID: 1977097
Field Sample ID: G1TLHR0041

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	97.0	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	9.87	F	30 - 300
SOP-PCR-1.4	SKETA-qPCR	89.2	P	50 - 300

Quality Assurance Report Summary

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
SM 10200 H (mod.)	Chlorophyll-a, Corrected	98.9						3.67	
	Chlorophyll-a, Corrected	101						3.73	
	Chlorophyll-a, Uncorrected							1.28	
	Chlorophyll-a, Uncorrected							3.83	
SOP-PCR-1.0	HF183-qPCR	79.5	121	117	87.9	96.7			4.65
SOP-PCR-1.2	GULL2-purified-qPCR	9.95	73.7	74.2	58.4				23.8
	GULL2-qPCR	48.3	97.1	53.7	74.5	72.2			
				86.2					
SOP-PCR-1.3	GFD-purified-qPCR	34.1	20.1	119	95.5	156			24.8
SOP-PCR-1.4	BacR-qPCR	35.2	117	83.4					
				77.8	66.4	94.7			
				82.8					

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	1977086, 1977087, 1977088, 1977089
SM 9222 D / E31780	Fecal coliforms by membrane filter method - non-chlorinated water systems	1977090, 1977091, 1977092, 1977093
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	1977094, 1977095, 1977096, 1977097
SOP-PCR-1.2 / E31780	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	1977096
SOP-PCR-1.2 / E31780	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	1977097
SOP-PCR-1.3 / E31780	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	1977096, 1977097
SOP-PCR-1.4 / E31780	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	1977094, 1977095, 1977096, 1977097
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	1977094, 1977095, 1977096, 1977097

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 10200 H (mod.)	03/22/2018	03/22/2018 15:59	Cathy Sherrer	03/27/2018 13:05	Kim M. Spencer	1977086, 1977087, 1977088
	03/22/2018	03/22/2018 15:59	Cathy Sherrer	03/27/2018 13:30	Kim M. Spencer	1977089
SM 9222 D	03/22/2018	03/22/2018 16:40	Peterson Janvier	03/23/2018 15:00	Peterson Janvier	1977090, 1977091, 1977092, 1977093
SOP-PCR-1.0	03/22/2018	03/22/2018 16:30	Puja Jasrotia	04/20/2018 11:41	Mailin Lopez	1977094, 1977095, 1977096, 1977097
SOP-PCR-1.2	03/22/2018	03/22/2018 16:30	Puja Jasrotia	04/23/2018 12:32	Sarah Menz	1977096
	03/22/2018	03/22/2018 16:30	Sarah Menz	04/27/2018 14:53	Sarah Menz	1977097
SOP-PCR-1.3	03/22/2018	03/22/2018 16:30	Sarah Menz	04/24/2018 10:24	Sarah Menz	1977096, 1977097
SOP-PCR-1.4	03/22/2018	03/22/2018 16:30	Puja Jasrotia	04/20/2018 14:47	Sarah Menz	1977094, 1977095, 1977096, 1977097
SOP-PCR-4.0	03/22/2018	03/22/2018 16:30	Sarah Menz	04/18/2018 15:52	Puja Jasrotia	1977094, 1977095, 1977096, 1977097