

Biological Analysis Report

SW-DIST-2018-06-19-02

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

Overflow Analyses Performed By:
Advanced Environmental Laboratories - Tampa
9610 Princess Palm Avenue
Tampa, Florida 33619
DOH Accreditation E84589

Event Description: **WOLF SIMS Mckay Rice**
Request ID: **RQ-2018-06-18-02**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
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Date Certified: 06-AUG-2018 10:39



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, 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 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: SIMS BRANCH @ PORT REDWING

Collection Date/Time: 06/18/2018 10:10

Field ID: G1SW0056

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001762	SM 10200 H (mod.)	Chlorophyll-a, Corrected	8.2	A	ug/L	P347486	
		Phaeophytin-a	1.7	A	ug/L	P347486	
		Chlorophyll-a, Uncorrected	9.6	A	ug/L	P347486	

Sample Location: SIMS BRANCH @ PORT REDWING

Collection Date/Time: 06/18/2018 10:10

Field ID: G1SW0056

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001771	SM 9230 C	Enterococci-Membrane Filter	16	B	cfu/100 mL		

Sample Location: Field Blank_06/18/2018

Collection Date/Time: 06/18/2018 10:15

Field ID: BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001763	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.62	U	ug/L	P347486	
		Phaeophytin-a	0.45	U	ug/L	P347486	
		Chlorophyll-a, Uncorrected	0.45	U	ug/L	P347486	

Sample Location: WOLF BRANCH CANAL @ BOATLIFT

Collection Date/Time: 06/18/2018 10:50

Field ID: G1SW0092

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001764	SM 10200 H (mod.)	Chlorophyll-a, Corrected	7.5		ug/L	P347486	
		Phaeophytin-a	1.5		ug/L	P347486	
		Chlorophyll-a, Uncorrected	8.7		ug/L	P347486	

Sample Location: WOLF BRANCH CANAL @ BOATLIFT

Collection Date/Time: 06/18/2018 10:50

Field ID: G1SW0092

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001772	SM 9230 C	Enterococci-Membrane Filter	40	B	cfu/100 mL		

Sample Location: WOLF BRANCH CANAL @ BOATLIFT

Collection Date/Time: 06/18/2018 10:50

Field ID: G1SW0092

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001767	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Sample Location: RICE @ BALM RVRVIEW

Collection Date/Time: 06/18/2018 11:30

Field ID: G2SW0032

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001766	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	517.2	Q	MPN/100 mL	P347361	

Sample Location: RICE @ BALM RVRVIEW

Collection Date/Time: 06/18/2018 11:30

Field ID: G2SW0032

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001768	SOP-PCR-1.0	HF183-qPCR**	250	I	GEU/100 mL	P348050	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: MCKAY BIGGEST FLOWING DITCH ON 45TH Collection Date/Time: 06/18/2018 09:40

Field ID: G1SW0093

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001765	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.0		ug/L	P347486	
		Phaeophytin-a	1.3		ug/L	P347486	
		Chlorophyll-a, Uncorrected	3.9		ug/L	P347486	

Sample Location: MCKAY BIGGEST FLOWING DITCH ON 45TH Collection Date/Time: 06/18/2018 09:40

Field ID: G1SW0093

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001773	SM 9230 C	Enterococci-Membrane Filter	4700		cfu/100 mL		

Sample Location: MCKAY BIGGEST FLOWING DITCH ON 45TH Collection Date/Time: 06/18/2018 09:40

Field ID: G1SW0093

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001769	SOP-PCR-1.0	HF183-qPCR**	140	U	GEU/100 mL	P348295	LCS, MS
	SOP-PCR-1.2	GULL2-qPCR**	8.4E+03	U	TSC/100 mL	P348295	
	SOP-PCR-1.3	GFD-purified-qPCR**	170	U	TSC/100 mL	P348222	MS
	SOP-PCR-1.4	BacR-qPCR**	1.5E+03	U	TSC/100 mL	P348295	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: MCKAY SANDBAG DITCH Collection Date/Time: 06/18/2018 09:30

Field ID: G1SW0094

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001774	SM 9230 C	Enterococci-Membrane Filter	72	B	cfu/100 mL		

Sample Location: MCKAY SANDBAG DITCH Collection Date/Time: 06/18/2018 09:30

Field ID: G1SW0094

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2001770	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)
 Batch ID: P347486

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L
Chlorophyll-a, Uncorrected	0.40	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)
Batch ID: P347486

Component	Result	Code	Units
Phaeophytin-a	0.40	U	ug/L

Reference Method: SM 9223 Quanti-Tray
Batch ID: P347361

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

Reference Method: SOP-PCR-1.0
Batch ID: P348050

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

Reference Method: SOP-PCR-1.0
Batch ID: P348295

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

Reference Method: SOP-PCR-1.2
Batch ID: P348295

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

Reference Method: SOP-PCR-1.3
Batch ID: P348222

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

Reference Method: SOP-PCR-1.4
Batch ID: P348295

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: P347486

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	95.6		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P348050

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

Reference Method: SOP-PCR-1.0
Batch ID: P348050

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	106	158	P/P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P348295

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	36.9	124	F/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P348295

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	180	91.1	P/P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P348222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-purified-qPCR	113	79.8	P/P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P348295

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	96.2	139	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P348050

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2001300	HF183-qPCR	84.6		P	50 - 175
2001301	HF183-qPCR	98.9		P	50 - 175
2001768	HF183-qPCR	99.2		P	50 - 175
2002640	HF183-qPCR	64.2		P	50 - 175
2002641	HF183-qPCR	94.2		P	50 - 175
2002645	HF183-qPCR	84.8		P	50 - 175
2005554	HF183-qPCR	106		P	50 - 175
2005555	HF183-qPCR	81.7		P	50 - 175
2005556	HF183-qPCR	99.9		P	50 - 175
2005557	HF183-qPCR	106		P	50 - 175
2005771	HF183-qPCR	100		P	50 - 175
2005772	HF183-qPCR	95.0		P	50 - 175
2005773	HF183-qPCR	68.1	68.9	P/P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P348295

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

Reference Method: SOP-PCR-1.0
Batch ID: P348295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2001769	HF183-qPCR	55.3		P	50 - 175
2002721	HF183-qPCR	44.2		F	50 - 175
2006576	HF183-qPCR	73.8		P	50 - 175
2006616	HF183-qPCR	79.3		P	50 - 175
2006617	HF183-qPCR	93.3		P	50 - 175
2006618	HF183-qPCR	84.6		P	50 - 175
2006683	HF183-qPCR	67.1		P	50 - 175
2006684	HF183-qPCR	71.2		P	50 - 175
2007508	HF183-qPCR	72.0	77.9	P/P	50 - 175
2007509	HF183-qPCR	90.4		P	50 - 175
2007531	HF183-qPCR	72.0		P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P348295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2001769	GULL2-qPCR	81.4		P	50 - 300
2002721	GULL2-qPCR	70.3		P	50 - 300
2006576	GULL2-qPCR	76.4		P	50 - 300
2006616	GULL2-qPCR	82.5		P	50 - 300
2006617	GULL2-qPCR	88.5		P	50 - 300
2006618	GULL2-qPCR	91.3		P	50 - 300
2006685	GULL2-qPCR	84.5		P	50 - 300
2006686	GULL2-qPCR	144		P	50 - 300
2007508	GULL2-qPCR	83.8	79.7	P/P	50 - 300
2007509	GULL2-qPCR	81.9		P	50 - 300
2007531	GULL2-qPCR	75.2		P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P348222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2001769	GFD-purified-qPCR	143		P	50 - 175
2001856	GFD-purified-qPCR	125		P	50 - 175
2002721	GFD-purified-qPCR	0.0		F	50 - 175
2002843	GFD-purified-qPCR	128		P	50 - 175
2009401	GFD-purified-qPCR	163	146	P/P	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P348295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2001769	BacR-qPCR	79.0		P	50 - 175
2002721	BacR-qPCR	83.1		P	50 - 175
2006576	BacR-qPCR	100		P	50 - 175
2006616	BacR-qPCR	86.5		P	50 - 175
2006617	BacR-qPCR	145		P	50 - 175
2006618	BacR-qPCR	92.2		P	50 - 175
2007508	BacR-qPCR	83.9	97.4	P/P	50 - 175
2007509	BacR-qPCR	82.9		P	50 - 175
2007531	BacR-qPCR	88.4		P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P347486

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2001762	Chlorophyll-a, Corrected	2.01	Sample	P	0 - 25
2001762	Chlorophyll-a, Uncorrected	1.99	Sample	P	0 - 25
2001762	Phaeophytin-a	1.61	Sample	P	0 - 25

Reference Method: SM 9223 Quanti-Tray
Batch ID: P347361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2001476	Escherichia Coli-Quanti-Tray	34.8	Sample	P	0 - 80
2001540	Escherichia Coli-Quanti-Tray	3.15	Sample	P	0 - 80

Reference Method: SOP-PCR-1.0
Batch ID: P348050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2005773	HF183-qPCR	1.27	Spike	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P348295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007508	HF183-qPCR	7.87	Spike	P	0 - 25

Reference Method: SOP-PCR-1.2
Batch ID: P348295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007508	GULL2-qPCR	5.10	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
Batch ID: P348222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2009401	GFD-purified-qPCR	11.1	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P348295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2007508	BacR-qPCR	14.9	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: 2001768
Field Sample ID: G2SW0032

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

Lab Sample ID: 2001769
Field Sample ID: G1SW0093

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	132	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	111	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	103	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	95.6			2.01	
	Chlorophyll-a, Uncorrected				1.99	
	Phaeophytin-a				1.61	
SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray				34.8	3.15
SOP-PCR-1.0	HF183-qPCR	158	106	98.9	99.2	64.2
				94.2		
	HF183-qPCR	124	36.9	79.3	93.3	84.6
				67.1		
SOP-PCR-1.2	GULL2-qPCR	91.1	180	82.5	88.5	91.3
				84.5		
SOP-PCR-1.3	GFD-purified-qPCR	79.8	113	125	128	143
				0.0		
SOP-PCR-1.4	BacR-qPCR	139	96.2	86.5	145	92.2
				100		

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	2001762, 2001763, 2001764, 2001765
SM 9223 Quanti-Tray / E31780	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems	2001766
SM 9230 C / E84589	Enterococci by membrane filter method by Advanced Environmental Overflow Laboratories for SWD	2001771, 2001772, 2001773, 2001774
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2001768, 2001769
SOP-PCR-1.2 / E31780	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	2001769
SOP-PCR-1.3 / E31780	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	2001769
SOP-PCR-1.4 / E31780	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	2001769
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	2001767, 2001768, 2001769, 2001770

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 10200 H (mod.)	06/19/2018	06/19/2018 14:41	Mariam Hanna	06/25/2018 09:05	Carina A. Tull	2001762, 2001763, 2001764, 2001765
SM 9223 Quanti-Tray	06/19/2018	06/19/2018 15:00	Peterson Janvier	06/20/2018 12:35	Edwin Gonzalez-Soto	2001766
SM 9230 C	06/18/2018	06/18/2018 15:50		06/19/2018 14:00	AEL - Tampa	2001771, 2001772, 2001773, 2001774
SOP-PCR-1.0	06/19/2018	06/19/2018 13:55	Angela Smith	07/18/2018 10:32	Mailin Lopez	2001769
	06/19/2018	06/19/2018 13:55	Puja Jasrotia	07/13/2018 10:26	Mailin Lopez	2001768
SOP-PCR-1.2	06/19/2018	06/19/2018 13:55	Angela Smith	07/19/2018 14:48	Mailin Lopez	2001769
SOP-PCR-1.3	06/19/2018	06/19/2018 13:55	Sarah Menz	07/23/2018 09:23	Sarah Menz	2001769
SOP-PCR-1.4	06/19/2018	06/19/2018 13:55	Angela Smith	07/19/2018 08:46	Mailin Lopez	2001769
SOP-PCR-4.0	06/19/2018	06/19/2018 13:55	Angela Smith	07/09/2018 09:36	Puja Jasrotia	2001768
	06/19/2018	06/19/2018 13:55	Angela Smith	07/16/2018 10:36	Puja Jasrotia	2001767, 2001769, 2001770