

Biological Analysis Report

WAS-SECT-2018-03-29-01

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

Event Description: **Quincy, Little, Black, Juniper**

Request ID: **RQ-2018-03-26-24**

Customer: **WAS-SECT**

Project ID: **SMP**

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

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 14:12

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: LITTLE RIVER 100 METERS UPSTREAM OF US 90 **Collection Date/Time: 03/29/2018 08:28**

Field ID: G1WA0073

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1979248	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.0	I	ug/L	P342878	
		Phaeophytin-a	0.59	I	ug/L	P342878	
		Chlorophyll-a, Uncorrected	1.4		ug/L	P342878	
1979254	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	124.1	A	MPN/100 mL	P342518	

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: QUINCY CREEK 100 METERS UPSTREAM OF RALPH STRONG RD **Collection Date/Time: 03/29/2018 09:10**

Field ID: G1WA0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1979249	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.77	I	ug/L	P342878	
		Phaeophytin-a	0.77	I	ug/L	P342878	
		Chlorophyll-a, Uncorrected	1.3		ug/L	P342878	
1979255	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	1203.3		MPN/100 mL	P342518	

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: QUINCY CREEK 100 METERS UPSTREAM OF RALPH STRONG RD **Collection Date/Time: 03/29/2018 09:10**

Field ID: G1WA0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1979261	SOP-PCR-1.0	HF183-qPCR**	260	T	GEU/100 mL	P342207	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: QUINCY CREEK UPSTREAM OF SR 267 **Collection Date/Time: 03/29/2018 10:08**

Field ID: G1WA0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1979250	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.76	I	ug/L	P342878	
		Phaeophytin-a	0.51	I	ug/L	P342878	
		Chlorophyll-a, Uncorrected	1.1	I	ug/L	P342878	
1979256	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	336.0		MPN/100 mL	P342518	

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: QUINCY CREEK UPSTREAM OF SR 267 **Collection Date/Time: 03/29/2018 10:08**

Field ID: G1WA0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1979262	SOP-PCR-1.0	HF183-qPCR**	77	T	GEU/100 mL	P342207	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Sample Location: QUINCY CREEK UPSTREAM OF SR 65

Collection Date/Time: 03/29/2018 09:42

Field ID: G1WA0049

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1979251	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.69	I	ug/L	P342878	
		Phaeophytin-a	0.53	I	ug/L	P342878	
		Chlorophyll-a, Uncorrected	1.1	I	ug/L	P342878	
1979257	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	355.0		MPN/100 mL	P342518	

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: QUINCY CREEK UPSTREAM OF SR 65

Collection Date/Time: 03/29/2018 09:42

Field ID: G1WA0049

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1979263	SOP-PCR-1.0	HF183-qPCR**	38	T	GEU/100 mL	P342207	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Sample Location: JUNIPER CREEK UPSTREAM OF JUNIPER CREEK RD

Collection Date/Time: 03/29/2018 10:58

Field ID: G1WA0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1979252	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.8		ug/L	P342878	
		Phaeophytin-a	1.0	I	ug/L	P342878	
		Chlorophyll-a, Uncorrected	2.5		ug/L	P342878	
1979258	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	93.3		MPN/100 mL	P342518	

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: JUNIPER CREEK UPSTREAM OF JUNIPER CREEK RD

Collection Date/Time: 03/29/2018 10:58

Field ID: G1WA0059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1979260	SOP-PCR-1.0	HF183-qPCR**	280	U	GEU/100 mL	P343698	
	SOP-PCR-1.2	GULL2-qPCR**	1.7E+04	U	TSC/100 mL	P343698	LCS
	SOP-PCR-1.3	GFD-purified-qPCR**	170	UV	TSC/100 mL	P344083	LCS, MS
	SOP-PCR-1.4	BacR-qPCR**	3.0E+03	U	TSC/100 mL	P343698	LCS
	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Ref. Method and Comment:

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

SOP-PCR-1.2: No amplification of GULL2 marker. Precision data unavailable for Analysis Batch A83533.

SOP-PCR-1.3: No amplification of GFD marker. Result is V-qualified due to a control blank failure.

SOP-PCR-1.4: No amplification of BACR marker.

Sample Location: BLACK CREEK UPSTREAM OF BLOXHAM CUTOFF

Collection Date/Time: 03/29/2018 12:55

Field ID: G1WA0023

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Field ID: G1WA0023

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1979253	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.55	U	ug/L	P342878	
		Phaeophytin-a	0.40	U	ug/L	P342878	
		Chlorophyll-a, Uncorrected	0.40	U	ug/L	P342878	
1979259	SM 9223 Quanti-Tray	Escherichia Coli-Quanti-Tray	27.5		MPN/100 mL	P342518	

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: P342878

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 9223 Quanti-Tray
Batch ID: P342518

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

Reference Method: SOP-PCR-1.0
Batch ID: P342207

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

Reference Method: SOP-PCR-1.0
Batch ID: P343698

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

Reference Method: SOP-PCR-1.2
Batch ID: P343698

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

Reference Method: SOP-PCR-1.3
Batch ID: P344083

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

Reference Method: SOP-PCR-1.4
Batch ID: P343698

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: P342878

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	104		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P342207

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	153	95.4	P/P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P343698

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	107	66.6	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P343698

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	73.7	28.3	P/F	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P344083

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-purified-qPCR	122	28.4	P/F	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P343698

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	99.2	23.5	P/F	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P342207

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1972376	HF183-qPCR	104		P	50 - 175
1973137	HF183-qPCR	117		P	50 - 175
1973138	HF183-qPCR	108		P	50 - 175
1973139	HF183-qPCR	115		P	50 - 175
1973140	HF183-qPCR	104		P	50 - 175
1973481	HF183-qPCR	96.5		P	50 - 175
1978249	HF183-qPCR	114	118	P/P	50 - 175
1979261	HF183-qPCR	121		P	50 - 175
1979262	HF183-qPCR	113		P	50 - 175
1979263	HF183-qPCR	112		P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
 Batch ID: P343698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1976549	HF183-qPCR	85.3		P	50 - 175
1978234	HF183-qPCR	99.6		P	50 - 175
1978235	HF183-qPCR	107		P	50 - 175
1978236	HF183-qPCR	86.9		P	50 - 175
1978237	HF183-qPCR	94.0		P	50 - 175
1978253	HF183-qPCR	88.9		P	50 - 175
1978580	HF183-qPCR	76.0		P	50 - 175
1978725	HF183-qPCR	88.1		P	50 - 175
1979260	HF183-qPCR	77.8		P	50 - 175
1979313	HF183-qPCR	82.2		P	50 - 175
1979459	HF183-qPCR	90.3		P	50 - 175
1980763	HF183-qPCR	83.5		P	50 - 175
1981252	HF183-qPCR	86.4	83.4	P/P	50 - 175

Reference Method: SOP-PCR-1.2
 Batch ID: P343698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1976549	GULL2-qPCR	74.3		P	50 - 300
1978725	GULL2-qPCR	71.0		P	50 - 300
1979260	GULL2-qPCR	68.9		P	50 - 300

Reference Method: SOP-PCR-1.3
 Batch ID: P344083

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1976549	GFD-purified-qPCR	53.1		P	50 - 175
1978725	GFD-purified-qPCR	115		P	50 - 175
1979260	GFD-purified-qPCR	135		P	50 - 175
1981244	GFD-purified-qPCR	178		F	50 - 175
1987512	GFD-purified-qPCR	179	159	F/P	50 - 175

Reference Method: SOP-PCR-1.4
 Batch ID: P343698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1976549	BacR-qPCR	91.8		P	50 - 175
1978236	BacR-qPCR	53.9		P	50 - 175
1978237	BacR-qPCR	65.8		P	50 - 175
1978253	BacR-qPCR	55.7		P	50 - 175
1978725	BacR-qPCR	103		P	50 - 175
1979260	BacR-qPCR	66.5		P	50 - 175
1979313	BacR-qPCR	61.2		P	50 - 175
1981252	BacR-qPCR	66.3	78.6	P/P	50 - 175

Quality Assurance Report Precision

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
 Batch ID: P342878

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1979097	Chlorophyll-a, Corrected	12.2	Sample	P	0 - 25
1979097	Chlorophyll-a, Uncorrected	13.3	Sample	P	0 - 25

Reference Method: SM 9223 Quanti-Tray
 Batch ID: P342518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1979254	Escherichia Coli-Quanti-Tray	2.90	Sample	P	0 - 80

Reference Method: SOP-PCR-1.0
 Batch ID: P342207

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1978249	HF183-qPCR	2.74	Spike	P	0 - 25

Reference Method: SOP-PCR-1.0
 Batch ID: P343698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1981252	HF183-qPCR	3.58	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
 Batch ID: P344083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1987512	GFD-purified-qPCR	11.4	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4
 Batch ID: P343698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1981252	BacR-qPCR	16.9	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: 1979260
 Field Sample ID: G1WA0059

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	102	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	96.2	P	50 - 300

Quality Assurance Report Surrogates

Lab Sample ID: 1979260
Field Sample ID: G1WA0059

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.4	SKETA-qPCR	100	P	50 - 300

Lab Sample ID: 1979261
Field Sample ID: G1WA0018

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	110	P	50 - 300

Lab Sample ID: 1979262
Field Sample ID: G1WA0050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	116	P	50 - 300

Lab Sample ID: 1979263
Field Sample ID: G1WA0049

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	114	P	50 - 300

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery			MS % Recovery			LCS	Precision	MS
									SMP	
SM 10200 H (mod.)	Chlorophyll-a, Corrected	104							12.2	
	Chlorophyll-a, Uncorrected								13.3	
SM 9223 Quanti-Tray SOP-PCR-1.0	Escherichia Coli-Quanti-Tray								2.90	
	HF183-qPCR	95.4	153		117	108	115			2.74
	HF183-qPCR	66.6	107		99.6	107	86.9			3.58
					104					
SOP-PCR-1.2	GULL2-qPCR	28.3	73.7		71.0	68.9	74.3			
SOP-PCR-1.3	GFD-purified-qPCR	28.4	122		179	159	178			11.4
SOP-PCR-1.4	BacR-qPCR	23.5	99.2		53.9	65.8	55.7			16.9
					103					

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	1979248, 1979249, 1979250, 1979251, 1979252, 1979253
SM 9223 Quanti-Tray / E31780	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems	1979254, 1979255, 1979256, 1979257, 1979258, 1979259
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	1979260, 1979261, 1979262, 1979263
SOP-PCR-1.2 / E31780	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	1979260
SOP-PCR-1.3 / E31780	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	1979260

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
SOP-PCR-1.4 / E31780	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	1979260
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	1979260, 1979261, 1979262, 1979263

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 10200 H (mod.)	03/29/2018	03/29/2018 15:21	Cathy Sherrer	04/05/2018 08:45	Jennifer Mihalic	1979248, 1979249, 1979250, 1979251, 1979252, 1979253
SM 9223 Quanti-Tray	03/29/2018	03/29/2018 15:45	Edwin Gonzalez-Soto	03/30/2018 12:20	Edwin Gonzalez-Soto	1979254, 1979255, 1979256, 1979257, 1979258, 1979259
SOP-PCR-1.0	03/29/2018	03/29/2018 15:40	Puja Jasrotia	04/05/2018 11:41	Mailin Lopez	1979261, 1979262, 1979263
	03/29/2018	03/29/2018 15:40	Puja Jasrotia	04/24/2018 11:38	Mailin Lopez	1979260
SOP-PCR-1.2	03/29/2018	03/29/2018 15:40	Puja Jasrotia	04/27/2018 14:53	Sarah Menz	1979260
SOP-PCR-1.3	03/29/2018	03/29/2018 15:40	Angela Smith	05/02/2018 09:02	Sarah Menz	1979260
SOP-PCR-1.4	03/29/2018	03/29/2018 15:40	Puja Jasrotia	04/27/2018 09:56	Sarah Menz	1979260
SOP-PCR-4.0	03/29/2018	03/29/2018 15:40	Angela Smith	04/18/2018 15:52	Puja Jasrotia	1979260, 1979261, 1979262, 1979263