

Biological Analysis Report

NE-DIST-2018-07-19-01

Florida Department of Environmental Protection
Central Laboratory
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DOH Accreditation E31780

Overflow Analyses Performed By:
ALS Environmental - Jacksonville
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DOH Accreditation E82502

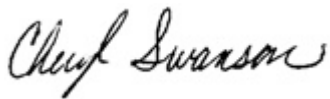
Event Description: **bmap tribs 1**
Request ID: **RQ-2018-07-16-21**
Customer: **NE-DIST**
Project ID: **SMP**

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Date Certified: 21-AUG-2018 12:47



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 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: BUTCHER PEN CR AT WESCONNETT

Collection Date/Time: 07/18/2018 08:50

Field ID: 20030760

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2009090	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.4	I	ug/L	P349230	
		Phaeophytin-a	0.46	I	ug/L	P349230	
		Chlorophyll-a, Uncorrected	1.7		ug/L	P349230	
2009099	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	3650		MPN/100 mL		
2009105	SOP-PCR-1.0	HF183-qPCR**	510	I	GEU/100 mL	P349103	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: BUTCHER PEN CR @ CONFEDERATE PT ROAD

Collection Date/Time: 07/18/2018 09:20

Field ID: 20030082

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2009091	SM 10200 H (mod.)	Chlorophyll-a, Corrected	18		ug/L	P349230	
		Phaeophytin-a	2.7		ug/L	P349230	
		Chlorophyll-a, Uncorrected	20		ug/L	P349230	
2009100	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	2760		MPN/100 mL		
2009106	SOP-PCR-1.0	HF183-qPCR**	280	U	GEU/100 mL	P349283	
	SOP-PCR-1.2	GULL2-qPCR**	1.7E+04	U	TSC/100 mL	P349283	
	SOP-PCR-1.3	GFD-purified-qPCR**	490	I	TSC/100 mL	P349731	LCS, MS
	SOP-PCR-1.4	BacR-qPCR**	3.0E+03	U	TSC/100 mL	P349283	LCS, RPD
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Ref. Method and Comment:

SOP-PCR-1.2: Precision data unavailable due to inhibition in QC sample.

Sample Location: GOODBYS CR ABOVE WEST BRANCH AT SAN CLERC RD

Collection Date/Time: 07/18/2018 11:30

Field ID: 20030891

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2009094	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.8		ug/L	P349193	
		Phaeophytin-a	0.40	U	ug/L	P349193	
		Chlorophyll-a, Uncorrected	2.0		ug/L	P349193	
2009103	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	373		MPN/100 mL		
2009109	SOP-PCR-4.0	HF183 - Human Source Marker**	Below Threshold				

Sample Location: BIG FISHWEIR CR HERSCHEL ST

Collection Date/Time: 07/18/2018 10:10

Field ID: 20030139

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2009095	SM 10200 H (mod.)	Chlorophyll-a, Corrected	8.1		ug/L	P349193	
		Phaeophytin-a	1.5		ug/L	P349193	
		Chlorophyll-a, Uncorrected	9.4		ug/L	P349193	
2009104	ASTM D650399	ENTEROCOCCI-ENTEROLERT	1200		MPN/100 mL		
2009110	SOP-PCR-1.0	HF183-qPCR**	1.59E+03		GEU/100 mL	P349283	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: BIG FISHWEIR CR SF @ HAMILTON ST

Collection Date/Time: 07/18/2018 09:50

Field ID: 20030801

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2009092	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.4	I	ug/L	P349230	
		Phaeophytin-a	0.45	U	ug/L	P349230	
		Chlorophyll-a, Uncorrected	1.5		ug/L	P349230	
2009101	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	4610		MPN/100 mL		
2009107	SOP-PCR-1.0	HF183-qPCR**	570	I	GEU/100 mL	P349283	
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Sample Location: LITTLE FISHWEIR @ PARK ST

Collection Date/Time: 07/18/2018 10:35

Field ID: 20030798

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2009093	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.71	I	ug/L	P349230	
		Phaeophytin-a	0.40	U	ug/L	P349230	
		Chlorophyll-a, Uncorrected	0.75	I	ug/L	P349230	
2009102	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	7270		MPN/100 mL		
2009108	SOP-PCR-1.0	HF183-qPCR**	280	U	GEU/100 mL	P349283	
	SOP-PCR-1.2	GULL2-qPCR**	1.7E+04	U	TSC/100 mL	P349283	
	SOP-PCR-1.3	GFD-purified-qPCR**	170	U	TSC/100 mL	P349731	LCS, MS
	SOP-PCR-1.4	BacR-qPCR**	3.0E+03	U	TSC/100 mL	P349283	LCS, RPD
	SOP-PCR-4.0	HF183 - Human Source Marker**	Above Threshold				

Ref. Method and Comment:

SOP-PCR-1.2: Precision data unavailable due to inhibition in QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: SM 10200 H (mod.)

Batch ID: P349193

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.62	U	ug/L
Chlorophyll-a, Uncorrected	0.45	U	ug/L
Phaeophytin-a	0.45	U	ug/L

Reference Method: SM 10200 H (mod.)

Batch ID: P349230

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: SOP-PCR-1.0

Batch ID: P349103

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

Quality Assurance Report Method Blank Results

Reference Method: SOP-PCR-1.0
Batch ID: P349283

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

Reference Method: SOP-PCR-1.2
Batch ID: P349283

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

Reference Method: SOP-PCR-1.3
Batch ID: P349731

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

Reference Method: SOP-PCR-1.4
Batch ID: P349283

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: P349193

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	96.9		P	84 - 116

Reference Method: SM 10200 H (mod.)
Batch ID: P349230

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	95.9		P	84 - 116

Reference Method: SOP-PCR-1.0
Batch ID: P349103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	102	142	P/P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P349283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
HF183-qPCR	88.7	156	P/P	50 - 175

Reference Method: SOP-PCR-1.2
Batch ID: P349283

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

Reference Method: SOP-PCR-1.2
Batch ID: P349283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GULL2-qPCR	90.3	218	P/P	50 - 300

Reference Method: SOP-PCR-1.3
Batch ID: P349731

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
GFD-purified-qPCR	128	36.5	P/F	50 - 175

Reference Method: SOP-PCR-1.4
Batch ID: P349283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
BacR-qPCR	92.3	297	P/F	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.0
Batch ID: P349103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2005377	HF183-qPCR	108		P	50 - 175
2005936	HF183-qPCR	107		P	50 - 175
2005939	HF183-qPCR	96.2		P	50 - 175
2005940	HF183-qPCR	104		P	50 - 175
2006654	HF183-qPCR	108		P	50 - 175
2006655	HF183-qPCR	97.7		P	50 - 175
2006930	HF183-qPCR	104		P	50 - 175
2006933	HF183-qPCR	102		P	50 - 175
2006934	HF183-qPCR	95.6		P	50 - 175
2007936	HF183-qPCR	97.7		P	50 - 175
2009105	HF183-qPCR	99.3		P	50 - 175
2010653	HF183-qPCR	104		P	50 - 175
2010654	HF183-qPCR	105	102	P/P	50 - 175

Reference Method: SOP-PCR-1.0
Batch ID: P349283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2009106	HF183-qPCR	77.3		P	50 - 175
2009107	HF183-qPCR	100		P	50 - 175
2009108	HF183-qPCR	98.9		P	50 - 175
2009110	HF183-qPCR	90.9		P	50 - 175
2009364	HF183-qPCR	101		P	50 - 175
2009392	HF183-qPCR	86.3		P	50 - 175
2010189	HF183-qPCR	108		P	50 - 175
2010538	HF183-qPCR	78.3		P	50 - 175
2010541	HF183-qPCR	120		P	50 - 175
2010655	HF183-qPCR	55.0		P	50 - 175
2011037	HF183-qPCR	83.8		P	50 - 175
2012341	HF183-qPCR	61.7	56.8	P/P	50 - 175

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SOP-PCR-1.2

Batch ID: P349283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2009106	GULL2-qPCR	71.5		P	50 - 300
2009108	GULL2-qPCR	89.2		P	50 - 300
2010189	GULL2-qPCR	111		P	50 - 300
2010538	GULL2-qPCR	86.0		P	50 - 300
2010541	GULL2-qPCR	98.0		P	50 - 300

Reference Method: SOP-PCR-1.3

Batch ID: P349731

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2009106	GFD-purified-qPCR	79.5		P	50 - 175
2009108	GFD-purified-qPCR	158		P	50 - 175
2010189	GFD-purified-qPCR	211		F	50 - 175
2010538	GFD-purified-qPCR	121		P	50 - 175
2010541	GFD-purified-qPCR	89.6		P	50 - 175
2016356	GFD-purified-qPCR	182		F	50 - 175
2016357	GFD-purified-qPCR	165	163	P/P	50 - 175
2016358	GFD-purified-qPCR	158		P	50 - 175
2016359	GFD-purified-qPCR	140		P	50 - 175
2016360	GFD-purified-qPCR	142		P	50 - 175
2016361	GFD-purified-qPCR	172		P	50 - 175

Reference Method: SOP-PCR-1.4

Batch ID: P349283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2009106	BacR-qPCR	69.1		P	50 - 175
2009108	BacR-qPCR	90.4		P	50 - 175
2009364	BacR-qPCR	90.6		P	50 - 175
2010189	BacR-qPCR	77.7		P	50 - 175
2010538	BacR-qPCR	79.2		P	50 - 175
2010541	BacR-qPCR	79.3		P	50 - 175
2012341	BacR-qPCR	94.1	63.1	P/P	50 - 175

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)

Batch ID: P349193

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2009127	Chlorophyll-a, Corrected	5.58	Sample	P	0 - 25
2009127	Chlorophyll-a, Uncorrected	6.64	Sample	P	0 - 25
2009127	Phaeophytin-a	8.00	Sample	P	0 - 25

Reference Method: SM 10200 H (mod.)

Batch ID: P349230

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P349230

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2008981	Chlorophyll-a, Corrected	3.37	Sample	P	0 - 25
2008981	Chlorophyll-a, Uncorrected	2.29	Sample	P	0 - 25
2008981	Phaeophytin-a	16.5	Sample	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P349103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010654	HF183-qPCR	2.26	Spike	P	0 - 25

Reference Method: SOP-PCR-1.0
Batch ID: P349283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012341	HF183-qPCR	8.08	Spike	P	0 - 25

Reference Method: SOP-PCR-1.3
Batch ID: P349731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2016357	GFD-purified-qPCR	1.22	Spike	P	0 - 25

Reference Method: SOP-PCR-1.4
Batch ID: P349283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012341	BacR-qPCR	38.8	Spike	F	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: 2009105
Field Sample ID: 20030760

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

Lab Sample ID: 2009106
Field Sample ID: 20030082

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	99.7	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	105	P	50 - 300

Quality Assurance Report Surrogates

Lab Sample ID: 2009106
Field Sample ID: 20030082

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.4	SKETA-qPCR	95.9	P	50 - 300

Lab Sample ID: 2009107
Field Sample ID: 20030801

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	106	P	50 - 300

Lab Sample ID: 2009108
Field Sample ID: 20030798

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	112	P	50 - 300
SOP-PCR-1.2	SKETA-qPCR	116	P	50 - 300
SOP-PCR-1.4	SKETA-qPCR	112	P	50 - 300

Lab Sample ID: 2009110
Field Sample ID: 20030139

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
SOP-PCR-1.0	SKETA-qPCR	105	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	96.9						5.58	
	Chlorophyll-a, Corrected	95.9						3.37	
	Chlorophyll-a, Uncorrected							6.64	
	Chlorophyll-a, Uncorrected							2.29	
	Phaeophytin-a							8.00	
SOP-PCR-1.0	Phaeophytin-a							16.5	
	HF183-qPCR	142	102	104	108	107			2.26
	HF183-qPCR	156	88.7	77.3	100	98.9			8.08
SOP-PCR-1.2	GULL2-qPCR	218	90.3	71.5	89.2	111			
SOP-PCR-1.3	GFD-purified-qPCR	36.5	128	79.5	158	211			1.22
SOP-PCR-1.4	BacR-qPCR	297	92.3	69.1	90.4	90.6			38.8
				77.7					

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
ASTM D650399 / E82502	Enterococci by Enterolert Quanti-Tray Method by ALS Environmental Laboratory in Jacksonville	2009104
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	2009090, 2009091, 2009092, 2009093, 2009094, 2009095

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 9223 B Quanti-Tray / E82502	Escherichia coli by Colilert Quanti-Tray method by ALS Environmental Laboratory in Jacksonville	2009099, 2009100, 2009101, 2009102, 2009103
SOP-PCR-1.0 / E31780	Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction	2009105, 2009106, 2009107, 2009108, 2009110
SOP-PCR-1.2 / E31780	Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction	2009106, 2009108
SOP-PCR-1.3 / E31780	Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction	2009106, 2009108
SOP-PCR-1.4 / E31780	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction	2009106, 2009108
SOP-PCR-4.0 / E31780	Preparation of Samples by Filtration and held for qPCR Analysis	2009105, 2009106, 2009107, 2009108, 2009109, 2009110

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
ASTM D650399	07/18/2018	07/18/2018 15:28		07/19/2018 17:13	ALS Environmental, Jax	2009104
SM 10200 H (mod.)	07/19/2018	07/19/2018 13:25	Jennifer Mihalic	07/25/2018 15:20	Carina A. Tull	2009090, 2009091, 2009092, 2009093
	07/19/2018	07/19/2018 13:25	Jennifer Mihalic	07/25/2018 16:00	Carina A. Tull	2009094, 2009095
SM 9223 B Quanti-Tray	07/18/2018	07/18/2018 15:38		07/19/2018 17:13	ALS Environmental, Jax	2009099, 2009100, 2009101, 2009102, 2009103
SOP-PCR-1.0	07/19/2018	07/19/2018 13:30	Sarah Menz	08/02/2018 09:41	Mailin Lopez	2009105
	07/19/2018	07/19/2018 13:30	Sarah Menz	08/07/2018 11:01	Mailin Lopez	2009106, 2009107, 2009108, 2009110
SOP-PCR-1.2	07/19/2018	07/19/2018 13:30	Sarah Menz	08/09/2018 12:04	Mailin Lopez	2009106, 2009108
SOP-PCR-1.3	07/19/2018	07/19/2018 13:30	Mailin Lopez	08/16/2018 11:54	Sarah Menz	2009106, 2009108
SOP-PCR-1.4	07/19/2018	07/19/2018 13:30	Sarah Menz	08/08/2018 14:48	Mailin Lopez	2009106, 2009108
SOP-PCR-4.0	07/19/2018	07/19/2018 13:30	Angela Smith	07/27/2018 11:03	Sarah Menz	2009105, 2009106, 2009107, 2009108, 2009109, 2009110