

Chemical Analysis Report

SO-DIST-2023-04-12-03

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **2023 SMP: Down the Hatchee**
Request ID: **RQ-2023-04-03-40**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: William Mullen

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 04-MAY-2023 11:48



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 group are included in this report: Nutrients.

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: CALOOSAABOVEBRIDGEST

Collection Date/Time: 04/11/2023 08:35

Field ID: G3SD0178

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2399805	DEP SOP: NU-094-1	Color (true)	76		PCU	P428395	
	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P428398	
	EPA 300.0 Rev. 2.1	Chloride	50		mg Cl/L	P428765	
		Sulfate	22		mg SO4/L	P428768	
	SM 2320 B-2011	Total Alkalinity	102		mg CaCO3/L	P428510	
	SM 2540 C-2015	TDS	241		mg/L	P428904	
	SM 2540 D-2015	TSS	12		mg/L	P428821	
	SM 4500-F- C-2011	Fluoride	0.17		mg F/L	P428928	
2399807	EPA 350.1 Rev. 2.0	Ammonia-N	0.050		mg N/L	P428789	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P428475	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P428775	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P428552	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P428606	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: CALOOSAHATCHEE RIVER ABOVE S 78

Collection Date/Time: 04/11/2023 09:10

Field ID: G3SD0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2399806	DEP SOP: NU-094-1	Color (true)	82		PCU	P428395	
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P428398	
	EPA 300.0 Rev. 2.1	Chloride	54		mg Cl/L	P428765	
		Sulfate	21		mg SO4/L	P428768	
	SM 2320 B-2011	Total Alkalinity	103		mg CaCO3/L	P428510	
	SM 2540 C-2015	TDS	251		mg/L	P428904	
	SM 2540 D-2015	TSS	15		mg/L	P428821	
	SM 4500-F- C-2011	Fluoride	0.17		mg F/L	P428928	
2399808	EPA 350.1 Rev. 2.0	Ammonia-N	0.065		mg N/L	P428789	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P428475	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.091		mg N/L	P428777	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P428552	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P428606	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P428395

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428398

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428765

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428768

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428789

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428475

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428775

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428777

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428552

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P428510

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2015
Batch ID: P428904

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P428821

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P428928

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P428606

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P428395

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	98.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428765

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428768

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428475

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	105		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428775

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428777

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428552

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	100		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P428510

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.5		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P428904

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	103		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P428821

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.0		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P428928

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P428606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428765

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399709	Chloride	102		P	90 - 110
2399822	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428768

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399709	Sulfate	102		P	90 - 110
2399822	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399823	Ammonia-N	102	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428475

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399576	Kjeldahl Nitrogen	99.2	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428775

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399714	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428777

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399856	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428552

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399742	Total-P	102	103	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P428928

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399662	Fluoride	99.1	99.8	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P428606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399831	Organic Carbon	92.2	92.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P428395

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399759	Color (true)	1.62	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399689	Turbidity	1.16	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399709	Chloride	0.280	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399709	Sulfate	0.755	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399823	Ammonia-N	1.06	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428475

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399576	Kjeldahl Nitrogen	1.40	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428775

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399714	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428777

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399856	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428552

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399742	Total-P	0.659	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P428510

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399660	Total Alkalinity	0.0847	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P428904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399464	TDS	5.71	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P428928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399662	Fluoride	0.470	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P428606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399831	Organic Carbon	0.427	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A118536

Included Lab Sample IDs: 2399805, 2399806

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	103	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118537

Included Lab Sample IDs: 2399805, 2399806

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.0	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A118577

Included Lab Sample IDs: 2399805, 2399806

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.8	95.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118626

Included Lab Sample IDs: 2399807, 2399808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	102	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A118628

Included Lab Sample IDs: 2399807, 2399808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118632

Included Lab Sample IDs: 2399807, 2399808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	105	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A118641

Included Lab Sample IDs: 2399805, 2399806

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.6	97.9	P/P	90 - 110
Sulfate	99.4	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118686

Included Lab Sample IDs: 2399807, 2399808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118686

Included Lab Sample IDs: 2399807, 2399808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118690

Included Lab Sample IDs: 2399807, 2399808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	98.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A118753

Included Lab Sample IDs: 2399805, 2399806

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	100	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	102			1.62	
EPA 180.1 Rev. 2.0	Turbidity	98.0			1.16	
EPA 300.0 Rev. 2.1	Chloride	100	102	102	0.280	
	Sulfate	101	102	101	0.755	
EPA 350.1 Rev. 2.0	Ammonia-N	97.2	102	100		1.06
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	99.2	101		1.40
EPA 353.2 Rev. 2.0	NO2NO3-N	102	100	100		0.0
	NO2NO3-N	102	102	102		0.0
EPA 365.1 Rev. 2.0	Total-P	100	102	103		0.659
SM 2320 B-2011	Total Alkalinity	95.5			0.0847	
SM 2540 C-2015	TDS	103			5.71	
SM 2540 D-2015	TSS	99.0				
SM 4500-F- C-2011	Fluoride	99.8	99.1	99.8		0.470
SM 5310 B-2011	Organic Carbon	97.0	92.2	92.7		0.427

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2399805, 2399806
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2399805, 2399806
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2399805, 2399806
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2399805, 2399806
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2399807, 2399808
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2399807, 2399808
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2399807, 2399808
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2399807, 2399808
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2399805, 2399806
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2399805, 2399806
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2399805, 2399806
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2399805, 2399806
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2399807, 2399808

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	04/12/2023			04/12/2023 15:39	Alexis Price	2399805
	04/12/2023			04/12/2023 15:40	Alexis Price	2399806
EPA 180.1 Rev. 2.0	04/12/2023			04/12/2023 14:02	Khloe J Berg	2399805
	04/12/2023			04/12/2023 14:04	Khloe J Berg	2399806
EPA 300.0 Rev. 2.1	04/12/2023			04/19/2023 23:36	James L Waggeberby	2399805
	04/12/2023			04/19/2023 23:51	James L Waggeberby	2399806
EPA 350.1 Rev. 2.0	04/12/2023			04/20/2023 11:57	Khloe J Berg	2399807
	04/12/2023			04/20/2023 11:58	Khloe J Berg	2399808
EPA 351.2 Rev. 2.0	04/12/2023	04/14/2023 11:34	Simonne.V. Calhoun	04/18/2023 11:02	Samantha L Bates	2399807
	04/12/2023	04/14/2023 11:34	Simonne.V. Calhoun	04/18/2023 11:04	Samantha L Bates	2399808
EPA 353.2 Rev. 2.0	04/12/2023			04/20/2023 11:01	Beverly Y. Sanders	2399807
	04/12/2023			04/20/2023 11:16	Beverly Y. Sanders	2399808
EPA 365.1 Rev. 2.0	04/12/2023	04/17/2023 18:31	Adam P Silver	04/18/2023 10:17	James L Waggeberby	2399807
	04/12/2023	04/17/2023 18:31	Adam P Silver	04/18/2023 10:18	James L Waggeberby	2399808
SM 2320 B-2011	04/12/2023			04/14/2023 04:44	Dale L. Simmons	2399805
	04/12/2023			04/14/2023 04:56	Dale L. Simmons	2399806
SM 2540 C-2015	04/12/2023			04/14/2023 15:46	Yijie Li	2399805, 2399806
SM 2540 D-2015	04/12/2023			04/14/2023 15:46	Yijie Li	2399805, 2399806
SM 4500-F- C-2011	04/12/2023			04/24/2023 17:56	Dale L. Simmons	2399805
	04/12/2023			04/24/2023 18:01	Dale L. Simmons	2399806
SM 5310 B-2011	04/12/2023			04/17/2023 18:44	Elise M. Gillis	2399807
	04/12/2023			04/17/2023 18:58	Elise M. Gillis	2399808