

Chemical Analysis Report

CEN-DIST-2021-09-24-02

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

Event Description: **Blanket Bay/Dead River**

Request ID: **RQ-2021-09-27-04**

Customer: **CEN-DIST**

Project ID: **SMP**

Send Reports to:

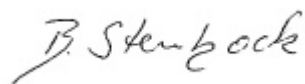
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 18-OCT-2021 14:54



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: Nutrients and Pesticides.

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: Dead River @ 1250 m north of Lake Hatchineha Collection Date/Time: 09/23/2021 10:00

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2278218	EPA 180.1 Rev. 2.0	Turbidity	1.2	A	NTU	P404191	
	EPA 300.0 Rev. 2.1	Chloride	22		mg Cl/L	P404318	
		Sulfate	1.4		mg SO4/L	P404320	
		Color (true)	540		PCU	P404180	
	SM 2320 B-2011	Total Alkalinity	27		mg CaCO3/L	P404566	
	SM 2540 C-2011	TDS	183		mg/L	P404622	
	SM 2540 D-2011	TSS	2	U	mg/L	P404558	
	SM 4500 F-C-2011	Fluoride	0.085	I	mg F/L	P404570	
2278219	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P404412	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P404450	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P404266	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P404298	
	SM 5310 B-2011	Organic Carbon	48		mg C/L	P404841	
2278220	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.030		mg P/L	P404182	
2278225	EPA 8276	Chlordane	2.6	U	ng/L	P404269	
		Toxaphene	15	U	ng/L	P404269	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P404191

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404318

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404320

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P404412

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P404450

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P404266

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P404298

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P404182

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8276
Batch ID: P404269

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P404180

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P404566

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

Reference Method: SM 2540 C-2011
Batch ID: P404622

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P404558

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P404570

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P404841

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404318

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404320

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P404412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P404450

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P404266

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P404298

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	107		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P404182

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

Reference Method: EPA 8276
Batch ID: P404269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	88.3	76.8	P/P	56 - 117
Toxaphene	79.7	71.8	P/P	45 - 116

Reference Method: SM 2120 B-2011
Batch ID: P404180

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.4		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P404566

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.2		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P404570

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P404841

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: P404318

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278044	Chloride	101	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278044	Sulfate	103	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P404412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278228	Ammonia-N	95.4	95.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P404450

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278903	Kjeldahl Nitrogen	96.6	94.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P404266

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278118	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P404298

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2277912	Total-P	107	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P404182

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278182	O-Phosphate-P	98.9	101	P/P	90 - 110

Reference Method: EPA 8276
Batch ID: P404269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278677	Chlordane	81.7	77.0	P/P	47 - 128
2278677	Toxaphene	83.6	79.7	P/P	11 - 163

Reference Method: SM 4500 F-C-2011
Batch ID: P404570

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278044	Fluoride	98.2	98.2	P/P	92 - 107

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P404841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2278606	Organic Carbon	94.6	95.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P404191

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278218	Turbidity	1.64	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404318

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278044	Chloride	1.06	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278044	Sulfate	0.166	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P404412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278228	Ammonia-N	0.186	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P404450

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278903	Kjeldahl Nitrogen	1.87	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P404266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278118	NO2NO3-N	0.315	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P404298

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2277912	Total-P	0.831	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P404182

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278182	O-Phosphate-P	1.80	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8276
 Batch ID: P404269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278677	Chlordane	5.86	Spike	P	0 - 30
2278677	Toxaphene	4.79	Spike	P	0 - 30
LFB	Chlordane	13.9	LCS	P	0 - 30
LFB	Toxaphene	10.5	LCS	P	0 - 30

Reference Method: SM 2120 B-2011
 Batch ID: P404180

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278227	Color (true)	0.804	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P404566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278044	Total Alkalinity	1.83	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
 Batch ID: P404622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278175	TDS	6.39	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P404570

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278044	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
 Batch ID: P404841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2278606	Organic Carbon	0.499	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2278225
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	82.0	P	29 - 92.0
EPA 8276	PCNB	84.3	P	43 - 134

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A107985

Included Lab Sample IDs: 2278218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.7	102	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A107986

Included Lab Sample IDs: 2278220

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.9	98.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A107987

Included Lab Sample IDs: 2278218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A108024

Included Lab Sample IDs: 2278218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	99.5	P/P	90 - 110
Sulfate	101	99.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A108029

Included Lab Sample IDs: 2278219

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A108056

Included Lab Sample IDs: 2278219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A108078

Included Lab Sample IDs: 2278219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.4	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A108126

Included Lab Sample IDs: 2278219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.4	99.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A108145

Included Lab Sample IDs: 2278218

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.9	96.1	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A108145

Included Lab Sample IDs: 2278218

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

Reference Method: EPA 8276

Run ID: A108169

Included Lab Sample IDs: 2278225

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.2		P	80 - 120
Toxaphene	98.8		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A108260

Included Lab Sample IDs: 2278219

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.7	94.8	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		LCS	Precision	MS
							SMP	
EPA 180.1 Rev. 2.0	Turbidity						1.64	
EPA 300.0 Rev. 2.1	Chloride	101		101	102			1.06
	Sulfate	101		103	103			0.166
EPA 350.1 Rev. 2.0	Ammonia-N	96.4		95.4	95.6			0.186
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.6		96.6	94.3			1.87
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	103		101	102			0.315
EPA 365.1 Rev. 2.0	Total-P	107		107	106			0.831
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		98.9	101			1.80
EPA 8276	Chlordane	88.3	76.8	81.7	77.0	13.9		5.86
	Toxaphene	79.7	71.8	83.6	79.7	10.5		4.79
SM 2120 B-2011	Color (true)	99.4					0.804	
SM 2320 B-2011	Total Alkalinity	98.2					1.83	
SM 2540 C-2011	TDS						6.39	
SM 4500 F-C-2011	Fluoride	101		98.2	98.2			0.0
SM 5310 B-2011	Organic Carbon	97.0		94.6	95.2			0.499

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2278218
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2278218
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2278218
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2278219
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2278219
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2278219
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2278219
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2278220
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2278225
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2278218
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2278218
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2278218
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2278218
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2278218
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2278219

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	09/24/2021			09/24/2021 14:51	Khloe J Berg	2278218
EPA 300.0 Rev. 2.1	09/24/2021			09/28/2021 21:33	Roberta Tatti	2278218
EPA 350.1 Rev. 2.0	09/24/2021			09/30/2021 14:49	Ping Hua	2278219
EPA 351.2 Rev. 2.0	09/24/2021	10/01/2021 12:37	Benjamin T. Nordmann	10/04/2021 10:42	Alexandra J Mattheus	2278219
EPA 353.2 Rev. 2.0	09/24/2021			09/28/2021 10:08	Beverly Y. Sanders	2278219
EPA 365.1 Rev. 2.0	09/24/2021	09/28/2021 14:14	Simonne.V. Calhoun	09/29/2021 13:38	Lipi Saha	2278219
EPA 365.1 Rev. 2.0 dissolved	09/24/2021			09/24/2021 15:04	James L Waggeberby	2278220
EPA 8276	09/24/2021	09/29/2021 08:00	Fe-Val Siddell	10/05/2021 04:48	Julie Wi	2278225
SM 2120 B-2011	09/24/2021			09/24/2021 16:02	Benjamin T. Nordmann	2278218
SM 2320 B-2011	09/24/2021			10/02/2021 02:41	Dale L. Simmons	2278218
SM 2540 C-2011	09/24/2021			09/28/2021 14:27	Yijie Li	2278218
SM 2540 D-2011	09/24/2021			09/28/2021 14:27	Yijie Li	2278218
SM 4500 F-C-2011	09/24/2021			10/02/2021 02:41	Dale L. Simmons	2278218
SM 5310 B-2011	09/24/2021			10/06/2021 19:15	Khloe J Berg	2278219