

Chemical Analysis Report

CEN-DIST-2018-03-01-01

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

Event Description: **Lake Jessup_Haynes Creek BMAP**
Request ID: **RQ-2018-02-19-49**
Customer: **CEN-DIST**
Project ID: **LKJES-BMAP**

Send Reports to:
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 16-MAR-2018 11:52



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 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: SWEETWATER CREEK @ FLORIDA AVENUE **Collection Date/Time: 02/28/2018 12:35**

Field ID: G2CE0123

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970859	EPA 350.1 Rev. 2.0	Ammonia-N	0.093		mg N/L	P341236	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P340828	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P340886	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P340868	
1970861	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.18		mg P/L	P340821	
1970863	SM 2540 D-97	TSS	4	I	mg/L	P340934	

Ref. Method and Comment:

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: SALT CREEK @ PACKARD AVENUE **Collection Date/Time: 02/28/2018 12:55**

Field ID: G2CE0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970860	EPA 350.1 Rev. 2.0	Ammonia-N	0.058		mg N/L	P341236	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P340828	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P340886	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P340868	
1970862	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.17		mg P/L	P340821	
1970864	SM 2540 D-97	TSS	7	IA	mg/L	P340934	

Ref. Method and Comment:

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: SALT CREEK @ PACKARD AVENUE **Collection Date/Time: 02/28/2018 12:55**

Field ID: G2CE0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970858	EPA 8321B	2,4-D	0.0020	U	ug/L	P340782	
		Sucralose**	0.15		ug/L	P340834	
		Bentazon	8.0E-04	U	ug/L	P340782	MS
		MCP	0.0020	U	ug/L	P340782	MS
		Triclopyr**	0.0040	U	ug/L	P340782	MS
		Imidacloprid	0.0097		ug/L	P340782	
		Diuron	0.0020	U	ug/L	P340782	
		Primidone**	0.0040	U	ug/L	P340782	
		Linuron	0.0040	U	ug/L	P340782	
		Acetaminophen**	0.0080	U	ug/L	P340782	
		Fenuron	0.0080	U	ug/L	P340782	
		Imazapyr**	0.0040	U	ug/L	P340782	MS
		Carbamazepine**	4.0E-04	U	ug/L	P340782	
		Fluridone**	8.0E-04	U	ug/L	P340782	

Ref. Method and Comment:

EPA 8321B: Fenuron was detected in the method blank slightly above the MDL.

Sample Location: HAYNES CREEK @ JUST DS OF BURELL LOCK **Collection Date/Time: 02/28/2018 11:15**

Field ID: G1CE0063

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970856	EPA 8321B	Sucralose**	0.28		ug/L	P340834	

Sample Location: HAYNES CREEK @ 300M DS OF CR 44 Collection Date/Time: 02/28/2018 11:00

Field ID: G1CE0023

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970857	EPA 8321B	Sucralose**	0.21		ug/L	P340834	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P341236

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340828

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340886

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P340868

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340821

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

Reference Method: EPA 8321B
Batch ID: P340782

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.014	I	ug/L
Fluridone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P340782

Component	Result	Code	Units
Linuron	0.0040	U	ug/L
MCPD	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P340834

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2540 D-97
Batch ID: P340934

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P341236

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340886

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P340868

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340821

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P340782

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	82.6		P	40 - 150
Acetaminophen	98.1		P	30 - 150
Bentazon	90.2		P	30 - 150
Carbamazepine	65.4		P	40 - 150
Diuron	66.5		P	40 - 150
Fenuron	96.3		P	40 - 150
Fluridone	82.1		P	40 - 150
Imazapyr	73.5		P	40 - 150
Imidacloprid	90.1		P	40 - 160
Linuron	71.9		P	40 - 150
MCPP	78.0		P	40 - 150
Primidone	108		P	40 - 150
Triclopyr	74.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P340834

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	116		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P341236

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970789	Ammonia-N	100	96.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970879	Kjeldahl Nitrogen	100	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340886

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970791	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340821

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970797	O-Phosphate-P	97.2	97.9	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P340782

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

Reference Method: EPA 8321B
Batch ID: P340782

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970898	2,4-D	49.0	50.3	P/P	40 - 150
1970898	Acetaminophen	112	125	P/P	30 - 150
1970898	Bentazon	26.3	27.1	F/F	30 - 150
1970898	Carbamazepine	75.8	76.1	P/P	40 - 150
1970898	Diuron	60.6	63.4	P/P	40 - 150
1970898	Fenuron	81.7	86.9	P/P	40 - 150
1970898	Fluridone	71.0	78.3	P/P	40 - 150
1970898	Imazapyr	39.2	50.0	F/P	40 - 150
1970898	Imidacloprid	134	149	P/P	40 - 160
1970898	Linuron	71.3	74.0	P/P	40 - 150
1970898	MCP	35.5	34.3	F/F	40 - 150
1970898	Primidone	112	111	P/P	40 - 150
1970898	Triclopyr	40.9	38.6	P/F	40 - 150

Reference Method: EPA 8321B
Batch ID: P340834

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970856	Sucralose	121	124	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P341236

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970789	Ammonia-N	3.12	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970879	Kjeldahl Nitrogen	1.04	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340886

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970791	NO2NO3-N	0.358	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P340868

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970874	Total-P	1.87	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P340821

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970797	O-Phosphate-P	0.718	Spike	P	0 - 20

Reference Method: EPA 8321B
 Batch ID: P340782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970898	2,4-D	2.52	Spike	P	0 - 30
1970898	Acetaminophen	11.1	Spike	P	0 - 30
1970898	Bentazon	2.14	Spike	P	0 - 30
1970898	Carbamazepine	0.401	Spike	P	0 - 30
1970898	Diuron	4.09	Spike	P	0 - 30
1970898	Fenuron	6.22	Spike	P	0 - 30
1970898	Fluridone	8.96	Spike	P	0 - 30
1970898	Imazapyr	9.78	Spike	P	0 - 30
1970898	Imidacloprid	9.13	Spike	P	0 - 30
1970898	Linuron	3.60	Spike	P	0 - 30
1970898	MCP	3.43	Spike	P	0 - 30
1970898	Primidone	0.955	Spike	P	0 - 30
1970898	Triclopyr	5.78	Spike	P	0 - 30

Reference Method: EPA 8321B
 Batch ID: P340834

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970856	Sucralose	1.93	Spike	P	0 - 30

* 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: 1970856
 Field Sample ID: G1CE0063

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	129	P	40 - 160

Lab Sample ID: 1970857
 Field Sample ID: G1CE0023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	122	P	40 - 160

Lab Sample ID: 1970858
 Field Sample ID: G2CE0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
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Quality Assurance Report Surrogates

Lab Sample ID: 1970858
Field Sample ID: G2CE0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	65.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	136	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.3	P	30 - 160
EPA 8321B	Diuron-d6	78.9	P	30 - 160
EPA 8321B	Primidone-d5	114	P	30 - 160
EPA 8321B	Sucralose-d6	119	P	40 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A82372
Included Lab Sample IDs: 1970861, 1970862

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A82408
Included Lab Sample IDs: 1970859, 1970860

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A82414
Included Lab Sample IDs: 1970856, 1970857, 1970858

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	108	112	P/P	60 - 150
Sucralose	112	102	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A82419
Included Lab Sample IDs: 1970859, 1970860

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.6	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A82436
Included Lab Sample IDs: 1970858

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	102	108	P/P	50 - 150
Acetaminophen	102	108	P/P	60 - 150
Bentazon	106	115	P/P	50 - 150
Carbamazepine	109	95.6	P/P	60 - 150
Diuron	126	104	P/P	60 - 150
Fenuron	103	102	P/P	60 - 150
Fluridone	111	116	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A82436

Included Lab Sample IDs: 1970858

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imazapyr	105	94.6	P/P	50 - 150
Imidacloprid	104	105	P/P	60 - 150
Linuron	105	101	P/P	60 - 150
MCPP	86.9	99.6	P/P	50 - 150
Primidone	106	109	P/P	60 - 150
Triclopyr	85.4	102	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A82456

Included Lab Sample IDs: 1970859, 1970860

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A82510

Included Lab Sample IDs: 1970859, 1970860

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	102	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 SMP	MS
						LCS	
EPA 350.1 Rev. 2.0	Ammonia-N	101		100	96.9		3.12
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.0		100	98.8		1.04
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	104		104	104		0.358
EPA 365.1 Rev. 2.0	Total-P	100					1.87
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102		97.2	97.9		0.718
EPA 8321B	2,4-D	82.6		49.0	50.3		2.52
	Acetaminophen	98.1		112	125		11.1
	Bentazon	90.2		26.3	27.1		2.14
	Carbamazepine	65.4		75.8	76.1		0.401
	Diuron	66.5		60.6	63.4		4.09
	Fenuron	96.3		81.7	86.9		6.22
	Fluridone	82.1		71.0	78.3		8.96
	Imazapyr	73.5		39.2	50.0		9.78
	Imidacloprid	90.1		134	149		9.13
	Linuron	71.9		71.3	74.0		3.60
	MCPP	78.0		35.5	34.3		3.43
	Primidone	108		112	111		0.955
	Sucralose	116		121	124		1.93
	Triclopyr	74.3		40.9	38.6		5.78

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1970859, 1970860
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1970859, 1970860
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1970859, 1970860
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1970859, 1970860
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1970861, 1970862
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1970858
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1970856, 1970857, 1970858
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1970863, 1970864

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 350.1 Rev. 2.0	03/01/2018			03/08/2018	Ping Hua	1970859, 1970860
EPA 351.2 Rev. 2.0	03/01/2018	03/02/2018	Adrian Shelby	03/06/2018	Joseph Suarez	1970859, 1970860
EPA 353.2 Rev. 2.0	03/01/2018			03/02/2018	Lauren Bottorf	1970859, 1970860
EPA 365.1 Rev. 2.0	03/01/2018	03/02/2018	Sima Feizi	03/05/2018	Beverly Y. Sanders	1970859, 1970860
EPA 365.1 Rev. 2.0 dissolved	03/01/2018			03/01/2018 16:02	Megan Treadwell	1970861
	03/01/2018			03/01/2018 16:03	Megan Treadwell	1970862
EPA 8321B	03/01/2018	03/02/2018	Hoor Shaik	03/03/2018	Julie Michelle Frank	1970858
	03/01/2018	03/02/2018	Julie Michelle Frank	03/03/2018	Juyoung Kim	1970856, 1970857, 1970858
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