

Chemical Analysis Report

WQAP-2021-05-07-01

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

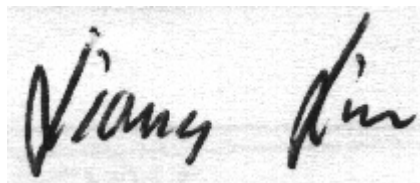
Event Description: **Algal Bloom Response - CEROC**
Request ID: **RQ-2021-04-12-06**
Customer: **WQAP**
Project ID: **BLOOM-RESP**

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 20-MAY-2021 13:20

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored background.

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: Trout Lake Canal - 35m From FL-19

Collection Date/Time: 05/06/2021 12:10

Field ID: HABCE0077_TroutLakeCanal

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2245985	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P397814	
		Cylindrospermopsin	0.10	U	ug/L	P397814	
		Desmethyl microcystin LR	0.25	U	ug/L	P397814	
		Microcystin HilR**	0.25	U	ug/L	P397814	
		Microcystin HtyR**	0.25	U	ug/L	P397814	
		Microcystin LA	0.10	U	ug/L	P397814	
		Microcystin LF	0.10	U	ug/L	P397814	
		Microcystin LR	0.31	I	ug/L	P397814	
		Microcystin LW	0.25	U	ug/L	P397814	
		Microcystin LY	0.10	U	ug/L	P397814	
		Microcystin RR	0.10	U	ug/L	P397814	
		Microcystin WR	0.50	U	ug/L	P397814	
		Microcystin YR	0.25	U	ug/L	P397814	
		Nodularin-R**	0.10	U	ug/L	P397814	
2245987	EPA 350.1 Rev. 2.0	Ammonia-N	0.046		mg N/L	P398293	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P398163	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.036		mg N/L	P397885	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P398212	
2245989	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.009	I	mg P/L	P397828	

Sample Location: Lake Weir - N Shore

Collection Date/Time: 05/06/2021 11:34

Field ID: HABCE0076_LakeWeir3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2245986	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P397814	
		Cylindrospermopsin	0.10	U	ug/L	P397814	
		Desmethyl microcystin LR	0.25	U	ug/L	P397814	
		Microcystin HilR**	0.25	U	ug/L	P397814	
		Microcystin HtyR**	0.25	U	ug/L	P397814	
		Microcystin LA	0.10	U	ug/L	P397814	
		Microcystin LF	0.10	U	ug/L	P397814	
		Microcystin LR	0.33	I	ug/L	P397814	
		Microcystin LW	0.25	U	ug/L	P397814	
		Microcystin LY	0.10	U	ug/L	P397814	
		Microcystin RR	0.10	U	ug/L	P397814	
		Microcystin WR	0.50	U	ug/L	P397814	
		Microcystin YR	0.25	U	ug/L	P397814	
		Nodularin-R**	0.10	U	ug/L	P397814	
2245988	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P398293	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P398163	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P397886	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P398212	
2245990	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P397828	

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398293

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398163

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397885

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397886

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398212

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397828

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

Reference Method: EPA 8321B
Batch ID: P397814

Component	Result	Code	Units
Anatoxin-a	0.25	U	ug/L
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin H11R	0.25	U	ug/L
Microcystin HtyR	0.25	U	ug/L
Microcystin LA	0.10	U	ug/L
Microcystin LF	0.10	U	ug/L
Microcystin LR	0.25	U	ug/L
Microcystin LW	0.25	U	ug/L
Microcystin LY	0.10	U	ug/L
Microcystin RR	0.10	U	ug/L
Microcystin WR	0.50	U	ug/L
Microcystin YR	0.25	U	ug/L
Nodularin-R	0.10	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398293

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398163

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397885

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397886

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398212

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.4		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P397814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	113		P	40 - 150
Cylindrospermopsin	108		P	40 - 150
Desmethyl microcystin LR	102		P	40 - 150
Microcystin H1LR	110		P	40 - 150
Microcystin HtyR	110		P	40 - 150
Microcystin LA	113		P	40 - 150
Microcystin LF	119		P	40 - 150
Microcystin LR	96.5		P	40 - 150
Microcystin LW	106		P	40 - 150
Microcystin LY	112		P	40 - 150
Microcystin RR	115		P	40 - 150
Microcystin WR	103		P	40 - 150
Microcystin YR	107		P	40 - 150
Nodularin-R	109		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P398293

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2246046	Ammonia-N	96.6	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P398163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245988	Kjeldahl Nitrogen	95.9	96.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P397885

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245704	NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P397886

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245988	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P398212

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245987	Total-P	106	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P397828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245944	O-Phosphate-P	97.7	96.4	P/P	90 - 110

Reference Method: EPA 8321B
 Batch ID: P397814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245985	Anatoxin-a	113	117	P/P	40 - 150
2245985	Cylindrospermopsin	106	108	P/P	40 - 150
2245985	Desmethyl microcystin LR	103	107	P/P	40 - 150
2245985	Microcystin HilR	112	115	P/P	40 - 150
2245985	Microcystin HtyR	113	110	P/P	40 - 150
2245985	Microcystin LA	111	114	P/P	40 - 150
2245985	Microcystin LF	113	110	P/P	40 - 150
2245985	Microcystin LR	92.3	98.1	P/P	40 - 150
2245985	Microcystin LW	106	106	P/P	40 - 150
2245985	Microcystin LY	110	111	P/P	40 - 150
2245985	Microcystin RR	107	114	P/P	40 - 150
2245985	Microcystin WR	106	106	P/P	40 - 150
2245985	Microcystin YR	111	113	P/P	40 - 150
2245985	Nodularin-R	113	119	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398293

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2246046	Ammonia-N	0.743	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245988	Kjeldahl Nitrogen	0.519	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245704	NO2NO3-N	0.496	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P397886

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245988	NO2NO3-N	0.499	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398212

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245987	Total-P	1.34	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P397828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245944	O-Phosphate-P	0.886	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P397814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245985	Anatoxin-a	3.94	Spike	P	0 - 30
2245985	Cylindrospermopsin	2.32	Spike	P	0 - 30
2245985	Desmethyl microcystin LR	4.11	Spike	P	0 - 30
2245985	Microcystin HtLR	1.97	Spike	P	0 - 30
2245985	Microcystin HtyR	2.78	Spike	P	0 - 30
2245985	Microcystin LA	2.75	Spike	P	0 - 30
2245985	Microcystin LF	2.36	Spike	P	0 - 30
2245985	Microcystin LR	5.88	Spike	P	0 - 30
2245985	Microcystin LW	0.578	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P397814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245985	Microcystin LY	0.347	Spike	P	0 - 30
2245985	Microcystin RR	5.84	Spike	P	0 - 30
2245985	Microcystin WR	0.156	Spike	P	0 - 30
2245985	Microcystin YR	1.51	Spike	P	0 - 30
2245985	Nodularin-R	4.69	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2245985

Field Sample ID: HABCE0077_TroutLakeCanal

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR-d7	88.0	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	104	P	30 - 160

Lab Sample ID: 2245986

Field Sample ID: HABCE0076_LakeWeir3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR-d7	85.9	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	93.3	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A105253

Included Lab Sample IDs: 2245989, 2245990

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A105281

Included Lab Sample IDs: 2245987, 2245988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.5	P/P	90 - 110
NO2NO3-N	99.5	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A105345

Included Lab Sample IDs: 2245985, 2245986

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	110	110	P/P	50 - 160
Cylindrospermopsin	102	103	P/P	50 - 160
Desmethyl microcystin LR	93.0	93.3	P/P	50 - 160
Microcystin HIR	102	101	P/P	50 - 160
Microcystin HtyR	97.0	97.0	P/P	50 - 160
Microcystin LA	109	111	P/P	50 - 160
Microcystin LF	102	108	P/P	50 - 160
Microcystin LR	94.9	92.1	P/P	50 - 160
Microcystin LW	103	102	P/P	50 - 160
Microcystin LY	107	106	P/P	50 - 160
Microcystin RR	105	108	P/P	50 - 160
Microcystin WR	101	100	P/P	50 - 160
Microcystin YR	96.6	97.4	P/P	50 - 160
Nodularin-R	103	102	P/P	50 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A105442

Included Lab Sample IDs: 2245987, 2245988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.3	91.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A105460

Included Lab Sample IDs: 2245987

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A105464

Included Lab Sample IDs: 2245988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	99.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A105466

Included Lab Sample IDs: 2245987, 2245988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	99.3	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	SMP	MS
EPA 350.1 Rev. 2.0	Ammonia-N	99.2	96.6	97.4			0.743
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.8	95.9	96.8			0.519
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	100	101			0.496
	NO ₂ NO ₃ -N	99.0	100	100			0.499
EPA 365.1 Rev. 2.0	Total-P	104	106	104			1.34
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4	97.7	96.4			0.886
EPA 8321B	Anatoxin-a	113	113	117			3.94
	Cylindrospermopsin	108	106	108			2.32
	Desmethyl microcystin LR	102	103	107			4.11
	Microcystin H ₁ LR	110	112	115			1.97
	Microcystin H ₂ LR	110	113	110			2.78
	Microcystin LA	113	111	114			2.75
	Microcystin LF	119	113	110			2.36
	Microcystin LR	96.5	92.3	98.1			5.88
	Microcystin LW	106	106	106			0.578
	Microcystin LY	112	110	111			0.347
	Microcystin RR	115	107	114			5.84
	Microcystin WR	103	106	106			0.156
	Microcystin YR	107	111	113			1.51
	Nodularin-R	109	113	119			4.69

Reference Method Descriptions

Method	Description	Associated Samples
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2245987, 2245988
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2245987, 2245988
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2245987, 2245988
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2245987, 2245988
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2245989, 2245990
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2245985, 2245986

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	05/07/2021			05/17/2021 12:24	Ping Hua	2245987
	05/07/2021			05/17/2021 12:25	Ping Hua	2245988
EPA 351.2 Rev. 2.0	05/07/2021	05/13/2021 18:44	Benjamin T. Nordmann	05/14/2021 15:27	Virginia P. Brown	2245987
	05/07/2021	05/13/2021 18:44	Benjamin T. Nordmann	05/14/2021 15:28	Virginia P. Brown	2245988
EPA 353.2 Rev. 2.0	05/07/2021			05/10/2021 10:14	Beverly Y. Sanders	2245987
	05/07/2021			05/10/2021 10:22	Beverly Y. Sanders	2245988
EPA 365.1 Rev. 2.0	05/07/2021	05/14/2021 13:32	Yen Ta	05/17/2021 11:49	Shengyu Ding	2245987
	05/07/2021	05/14/2021 13:32	Yen Ta	05/17/2021 14:26	Shengyu Ding	2245988
EPA 365.1 Rev. 2.0 dissolved	05/07/2021			05/07/2021 12:03	Lipi Saha	2245989
	05/07/2021			05/07/2021 12:04	Lipi Saha	2245990
EPA 8321B	05/07/2021	05/11/2021 12:30	Pramila Ghimire	05/11/2021 23:31	Pramila Ghimire	2245985
	05/07/2021	05/11/2021 12:30	Pramila Ghimire	05/11/2021 23:48	Pramila Ghimire	2245986