Chemical Analysis Report

WQAP-2023-05-04-01

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

Event Description: **Algal Bloom Response - CEROC**
Request ID: **RQ-2023-04-24-09**
Customer: **WQAP**
Project ID: **BLOOM-RESP**

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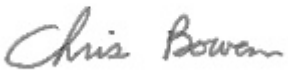
Date Certified: 15-MAY-2023 11:19



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: Lake Baldwin - Park Boat Ramp **Collection Date/Time: 05/03/2023 12:31**

Field ID: HABCE0188_LakeBaldwin2 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2405435	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P429325	
		Cylindrospermopsin	0.10	U	ug/L	P429324	
		Desmethyl microcystin LR	0.25	U	ug/L	P429324	
		Microcystin HilR	0.25	U	ug/L	P429324	
		Microcystin HtyR	0.25	U	ug/L	P429324	
		Microcystin LA	0.10	I	ug/L	P429324	
		Microcystin LF	0.10	U	ug/L	P429324	
		Microcystin LR	0.25	U	ug/L	P429324	
		Microcystin LW	0.25	U	ug/L	P429324	
		Microcystin LY	0.10	U	ug/L	P429324	
		Microcystin RR	0.10	U	ug/L	P429324	
		Microcystin WR	0.50	U	ug/L	P429324	
		Neosaxitoxin	0.50	U	ug/L	P429325	
		Microcystin YR	0.25	U	ug/L	P429324	
		Saxitoxin	0.50	U	ug/L	P429325	
		Nodularin-R	0.10	U	ug/L	P429324	
2405437	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P429477	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.58		mg N/L	P429570	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P429633	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P429466	
2405439	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P429425	

Sample Location: LAKE MAITLAND KRAFT AZALEA GARDEN **Collection Date/Time: 05/03/2023 11:43**

Field ID: HABCE0177_LakeMaitland2 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2405434	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P429325	
		Cylindrospermopsin	0.10	U	ug/L	P429324	
		Desmethyl microcystin LR	0.25	U	ug/L	P429324	
		Microcystin HilR	0.25	U	ug/L	P429324	
		Microcystin HtyR	0.25	U	ug/L	P429324	
		Microcystin LA	0.10	U	ug/L	P429324	
		Microcystin LF	0.10	U	ug/L	P429324	
		Microcystin LR	0.25	U	ug/L	P429324	
		Microcystin LW	0.25	U	ug/L	P429324	
		Microcystin LY	0.10	U	ug/L	P429324	
		Microcystin RR	0.10	U	ug/L	P429324	
		Microcystin WR	0.50	U	ug/L	P429324	
		Neosaxitoxin	0.50	U	ug/L	P429325	
		Microcystin YR	0.25	U	ug/L	P429324	
		Saxitoxin	0.50	U	ug/L	P429325	
		Nodularin-R	0.10	U	ug/L	P429324	
2405436	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P429477	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P429570	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P429633	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P429466	
2405438	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P429425	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429477

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429570

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429633

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429466

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429425

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

Reference Method: EPA 8321B
Batch ID: P429324

Component	Result	Code	Units
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin HilR	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

Reference Method: EPA 8321B
Batch ID: P429325

Component	Result	Code	Units
Anatoxin-a	0.25	U	ug/L
Neosaxitoxin	0.50	U	ug/L
Saxitoxin	0.50	U	ug/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429477

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429570

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429633

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429466

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429425

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

Reference Method: EPA 8321B
Batch ID: P429324

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	82.9		P	40 - 150
Desmethyl microcystin LR	89.6		P	40 - 150
Microcystin HilR	97.0		P	40 - 150
Microcystin HtyR	102		P	40 - 150
Microcystin LA	122		P	40 - 150
Microcystin LF	98.5		P	40 - 150
Microcystin LR	93.2		P	40 - 150
Microcystin LW	106		P	40 - 150
Microcystin LY	124		P	40 - 150
Microcystin RR	100		P	40 - 150
Microcystin WR	99.2		P	40 - 150
Microcystin YR	107		P	40 - 150
Nodularin-R	98.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429325

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	119		P	40 - 150
Neosaxitoxin	117		P	40 - 150
Saxitoxin	109		P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429477

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405298	Ammonia-N	96.2	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429570

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405436	Kjeldahl Nitrogen	102	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429633

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405436	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429466

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405437	Total-P	99.1	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429425

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405438	O-Phosphate-P	93.0	93.7	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P429324

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405282	Cylindrospermopsin	84.1	86.5	P/P	40 - 150
2405282	Desmethyl microcystin LR	95.9	96.8	P/P	40 - 150
2405282	Microcystin HilR	99.3	107	P/P	40 - 150
2405282	Microcystin HtyR	104	111	P/P	40 - 150
2405282	Microcystin LA	110	106	P/P	40 - 150
2405282	Microcystin LF	92.0	99.3	P/P	40 - 150
2405282	Microcystin LR	103	100	P/P	40 - 150
2405282	Microcystin LW	101	108	P/P	40 - 150
2405282	Microcystin LY	121	131	P/P	40 - 150
2405282	Microcystin RR	106	109	P/P	40 - 150
2405282	Microcystin WR	106	103	P/P	40 - 150
2405282	Microcystin YR	108	108	P/P	40 - 150
2405282	Nodularin-R	103	103	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P429325

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405282	Anatoxin-a	114	112	P/P	40 - 150
2405282	Neosaxitoxin	91.9	90.1	P/P	40 - 150
2405282	Saxitoxin	89.1	87.1	P/P	40 - 150

Quality Assurance Report
Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429477

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405298	Ammonia-N	1.28	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429570

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405436	Kjeldahl Nitrogen	1.83	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429633

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405436	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429466

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405437	Total-P	1.92	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405438	O-Phosphate-P	0.750	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P429324

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405282	Cylindrospermopsin	2.84	Spike	P	0 - 30
2405282	Desmethyl microcystin LR	0.952	Spike	P	0 - 30
2405282	Microcystin HilR	7.15	Spike	P	0 - 30
2405282	Microcystin HtyR	6.40	Spike	P	0 - 30
2405282	Microcystin LA	3.15	Spike	P	0 - 30
2405282	Microcystin LF	7.65	Spike	P	0 - 30
2405282	Microcystin LR	3.12	Spike	P	0 - 30
2405282	Microcystin LW	6.83	Spike	P	0 - 30
2405282	Microcystin LY	8.50	Spike	P	0 - 30
2405282	Microcystin RR	3.00	Spike	P	0 - 30
2405282	Microcystin WR	2.47	Spike	P	0 - 30
2405282	Microcystin YR	0.266	Spike	P	0 - 30
2405282	Nodularin-R	0.293	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P429325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405282	Anatoxin-a	1.82	Spike	P	0 - 30
2405282	Neosaxitoxin	1.97	Spike	P	0 - 30
2405282	Saxitoxin	2.29	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2405434
Field Sample ID: HABCE0177_LakeMaitland2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR ethyl-d5	91.9	P	30 - 160
EPA 8321B	Neosaxitoxin-15N7	100	P	30 - 160

Lab Sample ID: 2405435
Field Sample ID: HABCE0188_LakeBaldwin2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR ethyl-d5	87.5	P	30 - 160
EPA 8321B	Neosaxitoxin-15N7	102	P	30 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A118883
Included Lab Sample IDs: 2405434, 2405435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	87.8	89.0	P/P	50 - 160
Desmethyl microcystin LR	88.1	93.6	P/P	50 - 160
Microcystin HilR	102	103	P/P	50 - 160
Microcystin HtyR	103	103	P/P	50 - 160
Microcystin LA	116	111	P/P	50 - 160
Microcystin LF	92.7	72.4	P/P	50 - 160
Microcystin LR	97.7	91.9	P/P	50 - 160
Microcystin LW	97.9	85.2	P/P	50 - 160
Microcystin LY	111	102	P/P	50 - 160
Microcystin RR	100	94.0	P/P	50 - 160
Microcystin WR	95.0	99.5	P/P	50 - 160
Microcystin YR	104	95.9	P/P	50 - 160
Nodularin-R	94.2	92.0	P/P	50 - 160

Reference Method: EPA 8321B
Run ID: A118886
Included Lab Sample IDs: 2405434, 2405435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	105	106	P/P	50 - 160
Anatoxin-a	106	101	P/P	50 - 160
Neosaxitoxin	102	104	P/P	50 - 160
Neosaxitoxin	104	101	P/P	50 - 160
Saxitoxin	101	88.2	P/P	50 - 160
Saxitoxin	97.0	101	P/P	50 - 160

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A118956
Included Lab Sample IDs: 2405438, 2405439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	99.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A118977
Included Lab Sample IDs: 2405436, 2405437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119016
Included Lab Sample IDs: 2405436, 2405437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	99.8	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119057
Included Lab Sample IDs: 2405436, 2405437

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119059
Included Lab Sample IDs: 2405436, 2405437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	96.9	P/P	90 - 110
Kjeldahl Nitrogen	98.0	104	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	95.4	96.2	97.8			1.28
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.8	102	98.5			1.83
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	101	99.1	101			1.92
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2	93.0	93.7			0.750
EPA 8321B	Anatoxin-a	119	114	112			1.82
	Cylindrospermopsin	82.9	84.1	86.5			2.84
	Desmethyl microcystin LR	89.6	95.9	96.8			0.952
	Microcystin HilR	97.0	99.3	107			7.15
	Microcystin HtyR	102	104	111			6.40
	Microcystin LA	122	110	106			3.15
	Microcystin LF	98.5	92.0	99.3			7.65
	Microcystin LR	93.2	103	100			3.12
	Microcystin LW	106	101	108			6.83
	Microcystin LY	124	121	131			8.50
	Microcystin RR	100	106	109			3.00
	Microcystin WR	99.2	106	103			2.47
	Microcystin YR	107	108	108			0.266
	Neosaxitoxin	117	91.9	90.1			1.97
	Nodularin-R	98.9	103	103			0.293
	Saxitoxin	109	89.1	87.1			2.29

Reference Method Descriptions

Method	Description	Associated Samples
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2405436, 2405437
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2405436, 2405437
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2405436, 2405437
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2405436, 2405437
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2405438, 2405439
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2405434, 2405435
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2405434, 2405435

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	05/04/2023			05/05/2023 12:26	Khloe J Berg	2405436
	05/04/2023			05/05/2023 12:27	Khloe J Berg	2405437
EPA 351.2 Rev. 2.0	05/04/2023	05/09/2023 11:59	Dana G. Hughes	05/10/2023 10:09	Samantha L Bates	2405436
	05/04/2023	05/09/2023 11:59	Dana G. Hughes	05/10/2023 10:17	Samantha L Bates	2405437
EPA 353.2 Rev. 2.0	05/04/2023			05/10/2023 09:44	Beverly Y. Sanders	2405436
	05/04/2023			05/10/2023 09:52	Beverly Y. Sanders	2405437
EPA 365.1 Rev. 2.0	05/04/2023	05/05/2023 14:00	Alexis Price	05/08/2023 14:46	James L Waggerby	2405437
	05/04/2023	05/05/2023 14:00	Alexis Price	05/08/2023 14:47	James L Waggerby	2405436
EPA 365.1 Rev. 2.0 dissolved	05/04/2023			05/04/2023 14:09	Elise M. Gillis	2405438
	05/04/2023			05/04/2023 14:12	Elise M. Gillis	2405439
EPA 8321B	05/04/2023	05/04/2023 12:00	Manjita Shrestha	05/04/2023 16:25	Manjita Shrestha	2405434
	05/04/2023	05/04/2023 12:00	Manjita Shrestha	05/04/2023 16:52	Manjita Shrestha	2405435
	05/04/2023	05/04/2023 12:00	Manjita Shrestha	05/05/2023 01:03	Manjita Shrestha	2405434
	05/04/2023	05/04/2023 12:00	Manjita Shrestha	05/05/2023 01:20	Manjita Shrestha	2405435