

Chemical Analysis Report

WQAP-2023-06-20-02

Florida DEP Laboratory
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DOH Accreditation E31780

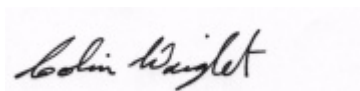
Event Description: **Algal Bloom Response -SOROC**
Request ID: **RQ-2023-06-05-65**
Customer: **WQAP**
Project ID: **BLOOM-RESP**

Send Reports to:
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2295 Victoria AVE
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Certified by: Colin Wright, Program Administrator

Date Certified: 05-JUL-2023 11:11

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular 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: Able Canal - Connie Ave N

Collection Date/Time: 06/19/2023 12:30

Field ID: HAB-SD061923-1230

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418409	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P431481	
		Cylindrospermopsin	0.10	I	ug/L	P431480	
		Desmethyl microcystin LR	0.25	U	ug/L	P431480	
		Microcystin HILR	0.25	U	ug/L	P431480	
		Microcystin HtyR	0.25	U	ug/L	P431480	MS
		Microcystin LA	0.10	U	ug/L	P431480	
		Microcystin LF	0.10	U	ug/L	P431480	MS
		Microcystin LR	0.25	U	ug/L	P431480	
		Microcystin LW	0.25	U	ug/L	P431480	
		Microcystin LY	0.10	U	ug/L	P431480	
		Microcystin RR	0.10	U	ug/L	P431480	
		Microcystin WR	0.50	U	ug/L	P431480	
		Neosaxitoxin	0.50	U	ug/L	P431481	
		Microcystin YR	0.25	U	ug/L	P431480	MS
		Saxitoxin	0.50	U	ug/L	P431481	
		Nodularin-R	0.10	U	ug/L	P431480	MS
2418413	EPA 350.1 Rev. 2.0	Ammonia-N	0.085		mg N/L	P431818	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P431651	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.046		mg N/L	P431812	
	EPA 365.1 Rev. 2.0	Total-P	0.28		mg P/L	P431598	
2418415	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.16		mg P/L	P431524	

Sample Location: Caloosahatchee - N of Loftons Island

Collection Date/Time: 06/19/2023 11:40

Field ID: HAB-SD-061923-1140

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418408	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P431481	
		Cylindrospermopsin	0.10	U	ug/L	P431480	
		Desmethyl microcystin LR	0.25	U	ug/L	P431480	
		Microcystin HILR	0.25	U	ug/L	P431480	
		Microcystin HtyR	0.25	U	ug/L	P431480	MS
		Microcystin LA	0.10	U	ug/L	P431480	
		Microcystin LF	0.10	U	ug/L	P431480	MS
		Microcystin LR	1.1		ug/L	P431480	
		Microcystin LW	0.25	U	ug/L	P431480	
		Microcystin LY	0.10	U	ug/L	P431480	
		Microcystin RR	0.10	U	ug/L	P431480	
		Microcystin WR	0.50	U	ug/L	P431480	
		Neosaxitoxin	0.50	U	ug/L	P431481	
		Microcystin YR	0.25	U	ug/L	P431480	MS
		Saxitoxin	0.50	U	ug/L	P431481	
		Nodularin-R	0.10	U	ug/L	P431480	MS
2418412	EPA 350.1 Rev. 2.0	Ammonia-N	0.040		mg N/L	P431818	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P431651	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.091		mg N/L	P431812	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P431598	
2418414	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P431524	

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431818

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431651

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431812

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431598

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431524

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

Reference Method: EPA 8321B
Batch ID: P431480

Component	Result	Code	Units
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin H1R	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: P431481

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: P431818

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431651

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431812

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: P431598

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431524

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

Reference Method: EPA 8321B
Batch ID: P431480

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	106		P	40 - 150
Desmethyl microcystin LR	111		P	40 - 150
Microcystin H1R	111		P	40 - 150
Microcystin HtyR	114		P	40 - 150
Microcystin LA	113		P	40 - 150
Microcystin LF	108		P	40 - 150
Microcystin LR	97.5		P	40 - 150
Microcystin LW	77.5		P	40 - 150
Microcystin LY	128		P	40 - 150
Microcystin RR	107		P	40 - 150
Microcystin WR	117		P	40 - 150
Microcystin YR	113		P	40 - 150
Nodularin-R	100		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431481

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	93.6		P	40 - 150
Neosaxitoxin	87.0		P	40 - 150
Saxitoxin	87.3		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418366	Ammonia-N	97.2	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418394	Kjeldahl Nitrogen	110	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431812

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418364	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418429	Total-P	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431524

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418319	O-Phosphate-P	97.3	97.0	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P431480

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418310	Cylindrospermopsin	116	120	P/P	40 - 150
2418310	Desmethyl microcystin LR	149	145	P/P	40 - 150
2418310	Microcystin HiLR	144	148	P/P	40 - 150
2418310	Microcystin HtyR	152	157	F/F	40 - 150
2418310	Microcystin LA	109	137	P/P	40 - 150
2418310	Microcystin LF	140	151	P/F	40 - 150
2418310	Microcystin LR	143	145	P/P	40 - 150
2418310	Microcystin LW	117	114	P/P	40 - 150
2418310	Microcystin LY	119	133	P/P	40 - 150
2418310	Microcystin RR	131	130	P/P	40 - 150
2418310	Microcystin WR	135	138	P/P	40 - 150
2418310	Microcystin YR	152	156	F/F	40 - 150
2418310	Nodularin-R	157	155	F/F	40 - 150

Reference Method: EPA 8321B
Batch ID: P431481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418310	Anatoxin-a	80.2	82.5	P/P	40 - 150
2418310	Neosaxitoxin	48.8	48.8	P/P	40 - 150
2418310	Saxitoxin	59.1	62.1	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P431818

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418366	Ammonia-N	1.10	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P431651

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418394	Kjeldahl Nitrogen	2.53	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P431812

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418364	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P431598

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418429	Total-P	1.84	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P431524

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418319	O-Phosphate-P	0.280	Spike	P	0 - 20

Reference Method: EPA 8321B

Batch ID: P431480

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418310	Cylindrospermopsin	3.62	Spike	P	0 - 30
2418310	Desmethyl microcystin LR	2.84	Spike	P	0 - 30
2418310	Microcystin H1LR	2.27	Spike	P	0 - 30
2418310	Microcystin HtyR	3.32	Spike	P	0 - 30
2418310	Microcystin LA	22.6	Spike	P	0 - 30
2418310	Microcystin LF	7.30	Spike	P	0 - 30
2418310	Microcystin LR	1.25	Spike	P	0 - 30
2418310	Microcystin LW	2.56	Spike	P	0 - 30
2418310	Microcystin LY	11.0	Spike	P	0 - 30
2418310	Microcystin RR	0.302	Spike	P	0 - 30
2418310	Microcystin WR	2.32	Spike	P	0 - 30
2418310	Microcystin YR	2.44	Spike	P	0 - 30
2418310	Nodularin-R	1.76	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P431481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418310	Anatoxin-a	2.80	Spike	P	0 - 30
2418310	Neosaxitoxin	0.0193	Spike	P	0 - 30
2418310	Saxitoxin	4.99	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2418408
Field Sample ID: HAB-SD-061923-1140

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR ethyl-d5	121	P	30 - 160
EPA 8321B	Saxitoxin-15N7	71.5	P	30 - 160

Lab Sample ID: 2418409
Field Sample ID: HAB-SD061923-1230

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR ethyl-d5	129	P	30 - 160
EPA 8321B	Saxitoxin-15N7	80.0	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A119924

Included Lab Sample IDs: 2418414, 2418415

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119966

Included Lab Sample IDs: 2418412, 2418413

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

Reference Method: EPA 8321B

Run ID: A119968

Included Lab Sample IDs: 2418408, 2418409

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	105	104	P/P	50 - 160
Desmethyl microcystin LR	109	113	P/P	50 - 160
Microcystin HiiR	116	116	P/P	50 - 160
Microcystin HtyR	115	115	P/P	50 - 160
Microcystin LA	134	145	P/P	50 - 160
Microcystin LF	126	102	P/P	50 - 160
Microcystin LR	107	108	P/P	50 - 160
Microcystin LW	94.2	126	P/P	50 - 160
Microcystin LY	147	154	P/P	50 - 160
Microcystin RR	106	102	P/P	50 - 160
Microcystin WR	118	123	P/P	50 - 160
Microcystin YR	112	118	P/P	50 - 160
Nodularin-R	102	105	P/P	50 - 160

Reference Method: EPA 8321B

Run ID: A119980

Included Lab Sample IDs: 2418408, 2418409

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	90.6	88.0	P/P	50 - 160
Neosaxitoxin	84.4	81.5	P/P	50 - 160
Saxitoxin	84.2	80.6	P/P	50 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119997

Included Lab Sample IDs: 2418412, 2418413

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	96.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120043

Included Lab Sample IDs: 2418412, 2418413

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

Quality Assurance Report

Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120045

Included Lab Sample IDs: 2418412, 2418413

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	99.2	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 350.1 Rev. 2.0	Ammonia-N	100	97.2	98.4			1.10
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	110	107			2.53
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	98.0	100	102			1.84
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	97.3	97.0			0.280
EPA 8321B	Anatoxin-a	93.6	80.2	82.5			2.80
	Cylindrospermopsin	106	116	120			3.62
	Desmethyl microcystin LR	111	149	145			2.84
	Microcystin HiLR	111	144	148			2.27
	Microcystin HtyR	114	152	157			3.32
	Microcystin LA	113	109	137			22.6
	Microcystin LF	108	140	151			7.30
	Microcystin LR	97.5	143	145			1.25
	Microcystin LW	77.5	117	114			2.56
	Microcystin LY	128	119	133			11.0
	Microcystin RR	107	131	130			0.302
	Microcystin WR	117	135	138			2.32
	Microcystin YR	113	152	156			2.44
	Neosaxitoxin	87.0	48.8	48.8			0.0193
	Nodularin-R	100	157	155			1.76
	Saxitoxin	87.3	59.1	62.1			4.99

Reference Method Descriptions

Method	Description	Associated Samples
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2418412, 2418413
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2418412, 2418413
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2418412, 2418413
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2418412, 2418413
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2418414, 2418415
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2418408, 2418409
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2418408, 2418409

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	06/20/2023			06/27/2023 11:32	Khloe J Berg	2418412
	06/20/2023			06/27/2023 11:33	Khloe J Berg	2418413
EPA 351.2 Rev. 2.0	06/20/2023	06/22/2023 12:16	Dana G. Hughes	06/23/2023 12:34	Ping Hua	2418412
	06/20/2023	06/22/2023 12:16	Dana G. Hughes	06/23/2023 12:35	Ping Hua	2418413
EPA 353.2 Rev. 2.0	06/20/2023			06/27/2023 10:21	Beverly Y. Sanders	2418412
	06/20/2023			06/27/2023 10:22	Beverly Y. Sanders	2418413
EPA 365.1 Rev. 2.0	06/20/2023	06/21/2023 14:57	Adam P Silver	06/22/2023 12:47	Simonne.V. Calhoun	2418412
	06/20/2023	06/21/2023 14:57	Adam P Silver	06/22/2023 12:48	Simonne.V. Calhoun	2418413
EPA 365.1 Rev. 2.0 dissolved	06/20/2023			06/20/2023 15:15	Adam P Silver	2418414
	06/20/2023			06/20/2023 15:16	Adam P Silver	2418415
EPA 8321B	06/20/2023	06/21/2023 12:00	Touraj Touran	06/22/2023 00:49	Touraj Touran	2418408
	06/20/2023	06/21/2023 12:00	Touraj Touran	06/22/2023 01:06	Touraj Touran	2418409
	06/20/2023	06/21/2023 12:00	Touraj Touran	06/22/2023 20:46	Touraj Touran	2418408
	06/20/2023	06/21/2023 12:00	Touraj Touran	06/22/2023 21:00	Touraj Touran	2418409