

Chemical Analysis Report

SO-DIST-2024-07-02-01

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

Event Description: **Algal Bloom Response - SOROC**
Request ID: **RQ-2024-04-29-55**
Customer: **SO-DIST**
Project ID: **BLOOM-RESP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: Nicole Reistad

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 17-JUL-2024 08:44



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 Glenada Boat Ramp

Collection Date/Time: 07/01/2024 12:41

Field ID: HAB-SD-0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2498712	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P447340	
		Cylindrospermopsin	0.10	U	ug/L	P447339	
		Desmethyl microcystin LR	0.25	U	ug/L	P447339	
		Microcystin HlIR	0.25	U	ug/L	P447339	
		Microcystin HtyR	0.25	U	ug/L	P447339	
		Microcystin LA	0.10	U	ug/L	P447339	
		Microcystin LF	0.10	U	ug/L	P447339	
		Microcystin LR	0.25	U	ug/L	P447339	
		Microcystin LW	0.25	U	ug/L	P447339	
		Microcystin LY	0.10	U	ug/L	P447339	
		Microcystin RR	0.10	U	ug/L	P447339	
		Microcystin WR	0.50	U	ug/L	P447339	
		Neosaxitoxin	0.50	U	ug/L	P447340	
		Microcystin YR	0.25	U	ug/L	P447339	
		Saxitoxin	0.50	U	ug/L	P447340	
		Nodularin-R	0.10	U	ug/L	P447339	

Sample Location: Lake Glenada Boat Ramp

Collection Date/Time: 07/01/2024 12:41

Field ID: HAB-SD-0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2498722	DEP SOP: NU-094-1	Color (true)	27		PCU	P447379	
2498723	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P447779	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P447481	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P447571	
	EPA 365.1 Rev. 2.0	Total-P	0.055		mg P/L	P447549	
2498724	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P447372	

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P447379

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447779

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447481

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447571

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447549

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447372

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

Reference Method: EPA 8321B
Batch ID: P447339

Component	Result	Code	Units
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin H1LR	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
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P447340

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: DEP SOP: NU-094-1
Batch ID: P447379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447779

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447481

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447571

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447549

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447372

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

Reference Method: EPA 8321B
Batch ID: P447339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	93.3		P	40 - 160
Desmethyl microcystin LR	98.6		P	40 - 160
Microcystin HILR	92.1		P	40 - 160
Microcystin HtyR	94.4		P	40 - 160
Microcystin LA	95.5		P	40 - 160
Microcystin LF	87.0		P	40 - 160
Microcystin LR	87.8		P	40 - 160
Microcystin LW	89.4		P	40 - 160
Microcystin LY	87.8		P	40 - 160
Microcystin RR	81.4		P	40 - 160
Microcystin WR	89.1		P	40 - 160
Microcystin YR	89.3		P	40 - 160
Nodularin-R	88.4		P	40 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P447340

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	111		P	40 - 150
Neosaxitoxin	109		P	40 - 150
Saxitoxin	106		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447779

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2498662	Ammonia-N	95.4	95.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2498723	Kjeldahl Nitrogen	100	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2498576	NO2NO3-N	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447549

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2498723	Total-P	98.4	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447372

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2498724	O-Phosphate-P	96.8	98.0	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P447339

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2498712	Cylindrospermopsin	83.9	89.7	P/P	40 - 160
2498712	Desmethyl microcystin LR	91.0	102	P/P	40 - 160
2498712	Microcystin HiLR	84.3	95.3	P/P	40 - 160
2498712	Microcystin HtyR	83.4	89.9	P/P	40 - 160
2498712	Microcystin LA	88.7	93.8	P/P	40 - 160
2498712	Microcystin LF	98.7	107	P/P	40 - 160
2498712	Microcystin LR	78.4	91.6	P/P	40 - 160
2498712	Microcystin LW	92.9	98.1	P/P	40 - 160
2498712	Microcystin LY	84.5	91.7	P/P	40 - 160
2498712	Microcystin RR	78.5	90.7	P/P	40 - 160
2498712	Microcystin WR	87.7	102	P/P	40 - 160
2498712	Microcystin YR	84.7	98.8	P/P	40 - 160
2498712	Nodularin-R	88.0	90.3	P/P	40 - 160

Reference Method: EPA 8321B
Batch ID: P447340

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2498712	Anatoxin-a	98.1	86.1	P/P	40 - 150
2498712	Neosaxitoxin	83.9	75.4	P/P	40 - 150
2498712	Saxitoxin	86.3	74.9	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P447379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2498659	Color (true)	4.39	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P447779

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2498662	Ammonia-N	0.184	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P447481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2498723	Kjeldahl Nitrogen	5.01	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P447571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2498576	NO2NO3-N	1.45	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P447549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2498723	Total-P	5.51	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P447372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2498724	O-Phosphate-P	1.23	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P447339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2498712	Cylindrospermopsin	6.67	Spike	P	0 - 30
2498712	Desmethyl microcystin LR	11.8	Spike	P	0 - 30
2498712	Microcystin HtIR	12.2	Spike	P	0 - 30
2498712	Microcystin HtyR	7.60	Spike	P	0 - 30
2498712	Microcystin LA	5.56	Spike	P	0 - 30
2498712	Microcystin LF	7.63	Spike	P	0 - 30
2498712	Microcystin LR	15.6	Spike	P	0 - 30
2498712	Microcystin LW	5.46	Spike	P	0 - 30
2498712	Microcystin LY	8.26	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B
Batch ID: P447339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2498712	Microcystin RR	14.4	Spike	P	0 - 30
2498712	Microcystin WR	14.8	Spike	P	0 - 30
2498712	Microcystin YR	15.3	Spike	P	0 - 30
2498712	Nodularin-R	2.59	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P447340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2498712	Anatoxin-a	13.1	Spike	P	0 - 30
2498712	Neosaxitoxin	10.6	Spike	P	0 - 30
2498712	Saxitoxin	14.2	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2498712
Field Sample ID: HAB-SD-0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	109	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	101	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A126467

Included Lab Sample IDs: 2498724

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.4	98.5	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A126469

Included Lab Sample IDs: 2498722

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.0	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A126473

Included Lab Sample IDs: 2498712

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	98.8	101	P/P	60 - 160
Desmethyl microcystin LR	101	102	P/P	60 - 160
Microcystin HiiR	91.4	96.5	P/P	60 - 160
Microcystin HtyR	93.9	93.5	P/P	60 - 160
Microcystin LA	103	100	P/P	50 - 160
Microcystin LF	107	100	P/P	50 - 160
Microcystin LR	87.8	89.5	P/P	60 - 160
Microcystin LW	100	94.6	P/P	60 - 160
Microcystin LY	95.4	86.2	P/P	60 - 160
Microcystin RR	97.3	87.5	P/P	60 - 160
Microcystin WR	95.6	91.6	P/P	60 - 160
Microcystin YR	92.9	90.9	P/P	60 - 160
Nodularin-R	95.8	88.5	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A126474

Included Lab Sample IDs: 2498712

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	111	109	P/P	50 - 160
Neosaxitoxin	113	111	P/P	50 - 160
Saxitoxin	109	112	P/P	50 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A126552

Included Lab Sample IDs: 2498723

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A126555

Included Lab Sample IDs: 2498723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.8	95.1	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A126560
Included Lab Sample IDs: 2498723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A126635
Included Lab Sample IDs: 2498723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	99.1	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	
DEP SOP: NU-094-1	Color (true)	96.9				4.39	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	95.4	95.6			0.184
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	100	109			5.01
EPA 353.2 Rev. 2.0	NO2NO3-N	102	103	104			1.45
EPA 365.1 Rev. 2.0	Total-P	99.4	98.4	105			5.51
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	96.8	98.0			1.23
EPA 8321B	Anatoxin-a	111	98.1	86.1			13.1
	Cylindrospermopsin	93.3	83.9	89.7			6.67
	Desmethyl microcystin LR	98.6	91.0	102			11.8
	Microcystin HILR	92.1	84.3	95.3			12.2
	Microcystin HtyR	94.4	83.4	89.9			7.60
	Microcystin LA	95.5	88.7	93.8			5.56
	Microcystin LF	87.0	98.7	107			7.63
	Microcystin LR	87.8	78.4	91.6			15.6
	Microcystin LW	89.4	92.9	98.1			5.46
	Microcystin LY	87.8	84.5	91.7			8.26
	Microcystin RR	81.4	78.5	90.7			14.4
	Microcystin WR	89.1	87.7	102			14.8
	Microcystin YR	89.3	84.7	98.8			15.3
	Neosaxitoxin	109	83.9	75.4			10.6
	Nodularin-R	88.4	88.0	90.3			2.59
	Saxitoxin	106	86.3	74.9			14.2

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2498722
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2498723
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2498723
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2498723
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2498723
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2498724
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2498712
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2498712

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	07/02/2024			07/02/2024 15:31	Chandler E Cox	2498722
EPA 350.1 Rev. 2.0	07/02/2024			07/12/2024 11:52	Robyn Blevins	2498723
EPA 351.2 Rev. 2.0	07/02/2024	07/08/2024 15:13	Ping Hua	07/09/2024 15:46	Samantha L Bates	2498723
EPA 353.2 Rev. 2.0	07/02/2024			07/09/2024 14:53	Fadila Guebre	2498723
EPA 365.1 Rev. 2.0	07/02/2024	07/09/2024 14:02	Josephine W Gitau	07/10/2024 09:47	Elise M. Gillis	2498723
EPA 365.1 Rev. 2.0 dissolved	07/02/2024			07/02/2024 15:57	Adam P Silver	2498724
EPA 8321B	07/02/2024	07/02/2024 13:00	Tae K Lee	07/02/2024 16:52	Tae K Lee	2498712
	07/02/2024	07/02/2024 13:00	Tae K Lee	07/02/2024 22:38	Tae K Lee	2498712