

Chemical Analysis Report

CEN-DIST-2023-10-20-01

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

Event Description: **Algal Bloom Response - CEROC**
Request ID: **RQ-2023-07-17-26**
Customer: **CEN-DIST**
Project ID: **BLOOM-RESP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Colin Wright, Program Administrator

Date Certified: 30-OCT-2023 12:35

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light blue 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: Lake Howell - N Shore

Collection Date/Time: 10/19/2023 11:38

Field ID: HABCE0212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446413	DEP SOP: NU-094-1	Color (true)	35	A	PCU	P436827	
2446414	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P437031	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.75		mg N/L	P436867	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.042		mg N/L	P437072	
	EPA 365.1 Rev. 2.0	Total-P	0.038		mg P/L	P436841	
2446415	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P436825	
2446416	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P436790	
		Cylindrospermopsin	0.10	U	ug/L	P436787	
		Desmethyl microcystin LR	0.25	U	ug/L	P436787	
		Microcystin H1LR	0.25	U	ug/L	P436787	
		Microcystin HtyR	0.25	U	ug/L	P436787	
		Microcystin LA	0.10	U	ug/L	P436787	
		Microcystin LF	0.10	U	ug/L	P436787	
		Microcystin LR	0.25	U	ug/L	P436787	
		Microcystin LW	0.25	U	ug/L	P436787	
		Microcystin LY	0.10	U	ug/L	P436787	
		Microcystin RR	0.10	U	ug/L	P436787	
		Microcystin WR	0.50	U	ug/L	P436787	
		Neosaxitoxin	0.50	U	ug/L	P436790	
		Microcystin YR	0.25	U	ug/L	P436787	
		Saxitoxin	0.50	U	ug/L	P436790	MS
		Nodularin-R	0.10	U	ug/L	P436787	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P436827

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437031

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436867

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436841

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436825

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

Reference Method: EPA 8321B
Batch ID: P436787

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: P436790

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: P436827

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437031

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: P436867

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	106		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.6		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P436787

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	98.8		P	40 - 150
Desmethyl microcystin LR	88.4		P	40 - 150
Microcystin HILR	82.1		P	40 - 150
Microcystin HtyR	88.9		P	40 - 150
Microcystin LA	88.4		P	40 - 150
Microcystin LF	78.5		P	40 - 150
Microcystin LR	90.1		P	40 - 150
Microcystin LW	82.2		P	40 - 150
Microcystin LY	83.4		P	40 - 150
Microcystin RR	95.7		P	40 - 150
Microcystin WR	90.7		P	40 - 150
Microcystin YR	88.0		P	40 - 150
Nodularin-R	91.6		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P436790

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	91.0		P	40 - 150
Neosaxitoxin	77.5		P	40 - 150
Saxitoxin	85.1		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446618	Ammonia-N	101	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436867

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446369	Kjeldahl Nitrogen	94.5	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446237	NO2NO3-N	96.4	95.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446414	Total-P	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446323	O-Phosphate-P	97.2	98.6	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P436787

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446335	Cylindrospermopsin	95.9	101	P/P	40 - 150
2446335	Desmethyl microcystin LR	85.6	92.1	P/P	40 - 150
2446335	Microcystin HiLR	82.4	87.7	P/P	40 - 150
2446335	Microcystin HtyR	83.6	94.1	P/P	40 - 150
2446335	Microcystin LA	83.9	85.0	P/P	40 - 150
2446335	Microcystin LF	86.3	86.6	P/P	40 - 150
2446335	Microcystin LR	89.9	96.4	P/P	40 - 150
2446335	Microcystin LW	90.4	92.3	P/P	40 - 150
2446335	Microcystin LY	81.4	86.3	P/P	40 - 150
2446335	Microcystin RR	95.1	102	P/P	40 - 150
2446335	Microcystin WR	83.6	96.2	P/P	40 - 150
2446335	Microcystin YR	90.4	88.2	P/P	40 - 150
2446335	Nodularin-R	91.2	99.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436790

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446335	Anatoxin-a	87.8	93.9	P/P	40 - 150
2446335	Neosaxitoxin	48.1	52.0	P/P	40 - 150
2446335	Saxitoxin	30.0	30.8	F/F	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436827

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446413	Color (true)	0.804	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P437031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446618	Ammonia-N	2.97	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436867

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446369	Kjeldahl Nitrogen	5.93	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446237	NO2NO3-N	0.449	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446414	Total-P	0.266	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446323	O-Phosphate-P	1.20	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P436787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446335	Cylindrospermopsin	5.26	Spike	P	0 - 30
2446335	Desmethyl microcystin LR	7.26	Spike	P	0 - 30
2446335	Microcystin HtIR	6.22	Spike	P	0 - 30
2446335	Microcystin HtyR	11.8	Spike	P	0 - 30
2446335	Microcystin LA	1.32	Spike	P	0 - 30
2446335	Microcystin LF	0.313	Spike	P	0 - 30
2446335	Microcystin LR	7.07	Spike	P	0 - 30
2446335	Microcystin LW	2.12	Spike	P	0 - 30
2446335	Microcystin LY	5.78	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446335	Microcystin RR	7.14	Spike	P	0 - 30
2446335	Microcystin WR	14.0	Spike	P	0 - 30
2446335	Microcystin YR	2.49	Spike	P	0 - 30
2446335	Nodularin-R	8.88	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436790

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446335	Anatoxin-a	6.69	Spike	P	0 - 30
2446335	Neosaxitoxin	7.91	Spike	P	0 - 30
2446335	Saxitoxin	2.66	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2446416
Field Sample ID: HABCE0212

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	92.9	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	114	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122228
Included Lab Sample IDs: 2446416

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	87.2	84.4	P/P	50 - 160
Neosaxitoxin	88.1	83.4	P/P	50 - 160
Saxitoxin	92.4	91.9	P/P	50 - 160

Reference Method: EPA 8321B
Run ID: A122252
Included Lab Sample IDs: 2446416

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	103	106	P/P	50 - 160
Desmethyl microcystin LR	80.3	88.4	P/P	50 - 160
Microcystin H1R	79.3	85.3	P/P	50 - 160
Microcystin HtyR	86.0	90.7	P/P	50 - 160
Microcystin LA	85.6	88.5	P/P	50 - 160
Microcystin LF	85.8	92.5	P/P	50 - 160
Microcystin LR	85.9	92.8	P/P	50 - 160
Microcystin LW	79.6	85.0	P/P	50 - 160
Microcystin LY	81.6	84.2	P/P	50 - 160
Microcystin RR	92.8	93.5	P/P	50 - 160
Microcystin WR	85.4	89.9	P/P	50 - 160
Microcystin YR	82.9	84.5	P/P	50 - 160
Nodularin-R	91.2	92.9	P/P	50 - 160

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A122266
Included Lab Sample IDs: 2446415

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.9	99.8	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A122268
Included Lab Sample IDs: 2446413

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A122353
Included Lab Sample IDs: 2446414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	108	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A122370
Included Lab Sample IDs: 2446414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	105	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122380

Included Lab Sample IDs: 2446414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	99.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122402

Included Lab Sample IDs: 2446414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	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)	101				0.804	
EPA 350.1 Rev. 2.0	Ammonia-N	100	101	104			2.97
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	94.5	104			5.93
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	96.4	95.8			0.449
EPA 365.1 Rev. 2.0	Total-P	103	105	105			0.266
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.6	97.2	98.6			1.20
EPA 8321B	Anatoxin-a	91.0	87.8	93.9			6.69
	Cylindrospermopsin	98.8	95.9	101			5.26
	Desmethyl microcystin LR	88.4	85.6	92.1			7.26
	Microcystin HILR	82.1	82.4	87.7			6.22
	Microcystin HtyR	88.9	83.6	94.1			11.8
	Microcystin LA	88.4	83.9	85.0			1.32
	Microcystin LF	78.5	86.3	86.6			0.313
	Microcystin LR	90.1	89.9	96.4			7.07
	Microcystin LW	82.2	90.4	92.3			2.12
	Microcystin LY	83.4	81.4	86.3			5.78
	Microcystin RR	95.7	95.1	102			7.14
	Microcystin WR	90.7	83.6	96.2			14.0
	Microcystin YR	88.0	90.4	88.2			2.49
	Neosaxitoxin	77.5	48.1	52.0			7.91
	Nodularin-R	91.6	91.2	99.7			8.88
	Saxitoxin	85.1	30.0	30.8			2.66

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2446413
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2446414
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2446414
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2446414
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2446414
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2446415
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2446416
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2446416

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	10/20/2023			10/20/2023 14:25	Anna M. Plaviak	2446413
EPA 350.1 Rev. 2.0	10/20/2023			10/26/2023 09:52	Ping Hua	2446414
EPA 351.2 Rev. 2.0	10/20/2023	10/24/2023 11:15	Ping Hua	10/26/2023 10:55	Samantha L Bates	2446414
EPA 353.2 Rev. 2.0	10/20/2023			10/26/2023 14:29	Fadila Guebre	2446414
EPA 365.1 Rev. 2.0	10/20/2023	10/23/2023 13:55	Simonne.V. Calhoun	10/25/2023 15:45	Simonne.V. Calhoun	2446414
EPA 365.1 Rev. 2.0 dissolved	10/20/2023			10/20/2023 14:42	Chandler E Cox	2446415
EPA 8321B	10/20/2023	10/20/2023 11:00	Tae K Lee	10/20/2023 14:23	Hana Lee	2446416
	10/20/2023	10/20/2023 11:00	Tae K Lee	10/20/2023 18:27	Tae K Lee	2446416