

Chemical Analysis Report

SO-DIST-2023-09-08-01

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

Event Description: **Algal Bloom Response -SOROC- Highlands**
Request ID: **RQ-2023-06-12-72**
Customer: **SO-DIST**
Project ID: **BLOOM-RESP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: John Barrington

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Certified by: Colin Wright, Program Administrator

Date Certified: 29-SEP-2023 14:21



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: 09/07/2023 08:19

Field ID: HAB-HC-090723--0819

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2435487	DEP SOP: NU-094-1	Color (true)	34	A	PCU	P434749	
2435488	EPA 350.1 Rev. 2.0	Ammonia-N	0.076		mg N/L	P434991	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P435430	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P434797	
	EPA 365.1 Rev. 2.0	Total-P	0.046		mg P/L	P434850	
2435489	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P434752	
2435490	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P434723	
		Cylindrospermopsin	0.10	U	ug/L	P434722	
		Desmethyl microcystin LR	0.25	U	ug/L	P434722	
		Microcystin HilR	0.25	U	ug/L	P434722	
		Microcystin HtyR	0.25	U	ug/L	P434722	
		Microcystin LA	0.10	U	ug/L	P434722	
		Microcystin LF	0.10	U	ug/L	P434722	
		Microcystin LR	0.32	I	ug/L	P434722	
		Microcystin LW	0.25	U	ug/L	P434722	
		Microcystin LY	0.10	U	ug/L	P434722	
		Microcystin RR	0.17	I	ug/L	P434722	
		Microcystin WR	0.50	U	ug/L	P434722	
		Neosaxitoxin	0.50	U	ug/L	P434723	
		Microcystin YR	0.25	U	ug/L	P434722	
		Saxitoxin	0.50	U	ug/L	P434723	
		Nodularin-R	0.10	U	ug/L	P434722	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P434749

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434991

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435430

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434797

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434850

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P434752

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

Reference Method: EPA 8321B
Batch ID: P434722

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: P434723

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: P434749

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434991

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	93.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434797

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434850

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P434752

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

Reference Method: EPA 8321B
Batch ID: P434722

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cylindrospermopsin	95.1		P	40 - 160
Desmethyl microcystin LR	107		P	40 - 160
Microcystin HILR	97.0		P	40 - 160
Microcystin HtyR	98.8		P	40 - 160
Microcystin LA	91.2		P	40 - 160
Microcystin LF	95.3		P	40 - 160
Microcystin LR	93.6		P	40 - 160
Microcystin LW	87.2		P	40 - 160
Microcystin LY	89.2		P	40 - 160
Microcystin RR	95.3		P	40 - 160
Microcystin WR	99.7		P	40 - 160
Microcystin YR	100		P	40 - 160
Nodularin-R	97.5		P	40 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P434723

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	118		P	40 - 150
Neosaxitoxin	115		P	40 - 150
Saxitoxin	102		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434991

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435421	Ammonia-N	96.6	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435859	Kjeldahl Nitrogen	101	95.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434797

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432174	NO2NO3-N	99.4	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434850

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435488	Total-P	109	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P434752

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435404	O-Phosphate-P	101	101	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P434722

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435490	Cylindrospermopsin	70.4	92.3	P/P	40 - 160
2435490	Desmethyl microcystin LR	100	102	P/P	40 - 160
2435490	Microcystin HiLR	94.6	94.8	P/P	40 - 160
2435490	Microcystin HtyR	98.9	95.0	P/P	40 - 160
2435490	Microcystin LA	90.6	89.1	P/P	40 - 160
2435490	Microcystin LF	103	106	P/P	40 - 160
2435490	Microcystin LR	95.1	89.8	P/P	40 - 160
2435490	Microcystin LW	94.0	89.1	P/P	40 - 160
2435490	Microcystin LY	90.7	86.7	P/P	40 - 160
2435490	Microcystin RR	97.2	91.0	P/P	40 - 160
2435490	Microcystin WR	99.6	95.8	P/P	40 - 160
2435490	Microcystin YR	94.5	91.8	P/P	40 - 160
2435490	Nodularin-R	97.1	94.8	P/P	40 - 160

Reference Method: EPA 8321B
Batch ID: P434723

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2435490	Anatoxin-a	133	132	P/P	40 - 150
2435490	Neosaxitoxin	129	125	P/P	40 - 150
2435490	Saxitoxin	102	108	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P434749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435487	Color (true)	1.35	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434991

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435421	Ammonia-N	1.77	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435859	Kjeldahl Nitrogen	4.64	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434797

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432174	NO2NO3-N	0.813	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434850

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435488	Total-P	0.991	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P434752

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435404	O-Phosphate-P	0.0954	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P434722

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435490	Cylindrospermopsin	26.9	Spike	P	0 - 30
2435490	Desmethyl microcystin LR	1.36	Spike	P	0 - 30
2435490	Microcystin HtIR	0.212	Spike	P	0 - 30
2435490	Microcystin HtyR	3.97	Spike	P	0 - 30
2435490	Microcystin LA	1.65	Spike	P	0 - 30
2435490	Microcystin LF	3.09	Spike	P	0 - 30
2435490	Microcystin LR	5.51	Spike	P	0 - 30
2435490	Microcystin LW	5.44	Spike	P	0 - 30
2435490	Microcystin LY	4.60	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434722

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435490	Microcystin RR	6.42	Spike	P	0 - 30
2435490	Microcystin WR	3.85	Spike	P	0 - 30
2435490	Microcystin YR	2.93	Spike	P	0 - 30
2435490	Nodularin-R	2.39	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P434723

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2435490	Anatoxin-a	0.946	Spike	P	0 - 30
2435490	Neosaxitoxin	3.16	Spike	P	0 - 30
2435490	Saxitoxin	5.86	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2435490
Field Sample ID: HAB-HC-090723--0819

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Anatoxin-a 13C4	114	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	107	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A121426

Included Lab Sample IDs: 2435487

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.0	98.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A121430

Included Lab Sample IDs: 2435489

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.9	98.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121433

Included Lab Sample IDs: 2435490

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cylindrospermopsin	105	104	P/P	60 - 160
Desmethyl microcystin LR	100	100	P/P	50 - 160
Microcystin HiiR	95.6	99.4	P/P	60 - 160
Microcystin HtyR	96.0	98.2	P/P	60 - 160
Microcystin LA	92.0	96.4	P/P	50 - 160
Microcystin LF	97.4	94.9	P/P	60 - 160
Microcystin LR	98.3	95.1	P/P	60 - 160
Microcystin LW	87.9	79.4	P/P	60 - 160
Microcystin LY	95.6	91.9	P/P	60 - 160
Microcystin RR	96.6	100	P/P	60 - 160
Microcystin WR	94.8	95.3	P/P	60 - 160
Microcystin YR	97.8	96.4	P/P	60 - 160
Nodularin-R	101	87.4	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121434

Included Lab Sample IDs: 2435490

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	106	112	P/P	50 - 160
Neosaxitoxin	131	123	P/P	50 - 160
Saxitoxin	112	113	P/P	50 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A121460

Included Lab Sample IDs: 2435488

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121508

Included Lab Sample IDs: 2435488

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121535

Included Lab Sample IDs: 2435488

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	98.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A121776

Included Lab Sample IDs: 2435488

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	102	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)	98.1				1.35	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	96.6	98.4			1.77
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	93.8	101	95.2			4.64
EPA 353.2 Rev. 2.0	NO2NO3-N	105	99.4	98.4			0.813
EPA 365.1 Rev. 2.0	Total-P	107	109	108			0.991
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.9	101	101			0.0954
EPA 8321B	Anatoxin-a	118	133	132			0.946
	Cylindrospermopsin	95.1	70.4	92.3			26.9
	Desmethyl microcystin LR	107	100	102			1.36
	Microcystin HiLR	97.0	94.6	94.8			0.212
	Microcystin HtyR	98.8	98.9	95.0			3.97
	Microcystin LA	91.2	90.6	89.1			1.65
	Microcystin LF	95.3	103	106			3.09
	Microcystin LR	93.6	95.1	89.8			5.51
	Microcystin LW	87.2	94.0	89.1			5.44
	Microcystin LY	89.2	90.7	86.7			4.60
	Microcystin RR	95.3	97.2	91.0			6.42
	Microcystin WR	99.7	99.6	95.8			3.85
	Microcystin YR	100	94.5	91.8			2.93
	Neosaxitoxin	115	129	125			3.16
	Nodularin-R	97.5	97.1	94.8			2.39
	Saxitoxin	102	102	108			5.86

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2435487
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2435488
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2435488
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2435488
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2435488
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2435489
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2435490
EPA 8321B	Saxitoxin in water matrices by HPLC/MS/MS	2435490

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	09/08/2023			09/08/2023 14:44	Samantha L Bates	2435487
EPA 350.1 Rev. 2.0	09/08/2023			09/14/2023 11:08	Khloe J Berg	2435488
EPA 351.2 Rev. 2.0	09/08/2023	09/25/2023 13:24	Simonne.V. Calhoun	09/26/2023 15:20	Samantha L Bates	2435488
EPA 353.2 Rev. 2.0	09/08/2023			09/11/2023 13:05	Anna M. Plaviak	2435488
EPA 365.1 Rev. 2.0	09/08/2023	09/12/2023 17:58	Adam P Silver	09/13/2023 14:53	Simonne.V. Calhoun	2435488
EPA 365.1 Rev. 2.0 dissolved	09/08/2023			09/08/2023 16:05	Chandler E Cox	2435489
EPA 8321B	09/08/2023	09/08/2023 14:00	Tae K Lee	09/09/2023 04:39	Hana Lee	2435490
	09/08/2023	09/08/2023 14:00	Tae K Lee	09/09/2023 09:12	Hana Lee	2435490