Chemical Analysis Report

WQAP-2021-05-11-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Algal Bloom Response - SE ROC**
Request ID: **RQ-2021-05-03-64**
Customer: **WQAP**
Project ID: **BLOOM-RESP**

Send Reports to:
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Colin Wright, Program Administrator

Date Certified: 21-MAY-2021 10:42

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: S308 Lake Side **Collection Date/Time: 05/10/2021 15:00**

Field ID: SEHAB0033 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2246433	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P397814	
		Cylindrospermopsin	0.10	U	ug/L	P397814	
		Desmethyl microcystin LR	2.2		ug/L	P397814	
		Microcystin HilR**	0.76	I	ug/L	P397814	
		Microcystin HtyR**	0.25	U	ug/L	P397814	
		Microcystin LA	1.7		ug/L	P397814	
		Microcystin LF	0.10	U	ug/L	P397814	
		Microcystin LR	58		ug/L	P397814	
		Microcystin LW	0.25	U	ug/L	P397814	
		Microcystin LY	0.10	U	ug/L	P397814	
		Microcystin RR	0.34	I	ug/L	P397814	
		Microcystin WR	2.4		ug/L	P397814	
		Microcystin YR	0.25	U	ug/L	P397814	
		Nodularin-R**	0.10	U	ug/L	P397814	
2246436	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P398305	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P398162	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.018		mg N/L	P398123	
	EPA 365.1 Rev. 2.0	Total-P	0.30		mg P/L	P398072	
2246438	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.057		mg P/L	P398024	

Sample Location: S308 Canal Side **Collection Date/Time: 05/10/2021 15:15**

Field ID: SEHAB0034 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2246434	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P397814	
		Cylindrospermopsin	0.10	U	ug/L	P397814	
		Desmethyl microcystin LR	0.61	I	ug/L	P397814	
		Microcystin HilR**	0.27	I	ug/L	P397814	
		Microcystin HtyR**	0.25	U	ug/L	P397814	
		Microcystin LA	0.59		ug/L	P397814	
		Microcystin LF	0.10	U	ug/L	P397814	
		Microcystin LR	20		ug/L	P397814	
		Microcystin LW	0.25	U	ug/L	P397814	
		Microcystin LY	0.10	U	ug/L	P397814	
		Microcystin RR	0.10	U	ug/L	P397814	
		Microcystin WR	0.50	U	ug/L	P397814	
		Microcystin YR	0.25	U	ug/L	P397814	
		Nodularin-R**	0.10	U	ug/L	P397814	
2246437	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P398305	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P398162	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P398123	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P398072	
2246439	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.054		mg P/L	P398024	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398305

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398162

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398123

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398072

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398024

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

Reference Method: EPA 8321B
Batch ID: P397814

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398305

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398162

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398123

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398072

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398024

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

Reference Method: EPA 8321B
Batch ID: P397814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	113		P	40 - 150
Cylindrospermopsin	108		P	40 - 150
Desmethyl microcystin LR	102		P	40 - 150
Microcystin HilR	110		P	40 - 150
Microcystin HtyR	110		P	40 - 150
Microcystin LA	113		P	40 - 150
Microcystin LF	119		P	40 - 150
Microcystin LR	96.5		P	40 - 150
Microcystin LW	106		P	40 - 150
Microcystin LY	112		P	40 - 150
Microcystin RR	115		P	40 - 150
Microcystin WR	103		P	40 - 150
Microcystin YR	107		P	40 - 150
Nodularin-R	109		P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398305

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2246436	Ammonia-N	97.8	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245903	Kjeldahl Nitrogen	99.4	99.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2246353	NO2NO3-N	95.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398072

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2244328	Total-P	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398024

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2246360	O-Phosphate-P	99.7	99.4	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P397814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2245985	Anatoxin-a	113	117	P/P	40 - 150
2245985	Cylindrospermopsin	106	108	P/P	40 - 150
2245985	Desmethyl microcystin LR	103	107	P/P	40 - 150
2245985	Microcystin HilR	112	115	P/P	40 - 150
2245985	Microcystin HtyR	113	110	P/P	40 - 150
2245985	Microcystin LA	111	114	P/P	40 - 150
2245985	Microcystin LF	113	110	P/P	40 - 150
2245985	Microcystin LR	92.3	98.1	P/P	40 - 150
2245985	Microcystin LW	106	106	P/P	40 - 150
2245985	Microcystin LY	110	111	P/P	40 - 150
2245985	Microcystin RR	107	114	P/P	40 - 150
2245985	Microcystin WR	106	106	P/P	40 - 150
2245985	Microcystin YR	111	113	P/P	40 - 150
2245985	Nodularin-R	113	119	P/P	40 - 150

Quality Assurance Report
Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P398305

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2246436	Ammonia-N	1.20	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P398162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245903	Kjeldahl Nitrogen	0.228	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2246353	NO2NO3-N	0.681	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398072

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2244328	Total-P	1.04	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398024

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2246360	O-Phosphate-P	0.261	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P397814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2245985	Anatoxin-a	3.94	Spike	P	0 - 30
2245985	Cylindrospermopsin	2.32	Spike	P	0 - 30
2245985	Desmethyl microcystin LR	4.11	Spike	P	0 - 30
2245985	Microcystin HilR	1.97	Spike	P	0 - 30
2245985	Microcystin HtyR	2.78	Spike	P	0 - 30
2245985	Microcystin LA	2.75	Spike	P	0 - 30
2245985	Microcystin LF	2.36	Spike	P	0 - 30
2245985	Microcystin LR	5.88	Spike	P	0 - 30
2245985	Microcystin LW	0.578	Spike	P	0 - 30
2245985	Microcystin LY	0.347	Spike	P	0 - 30
2245985	Microcystin RR	5.84	Spike	P	0 - 30
2245985	Microcystin WR	0.156	Spike	P	0 - 30
2245985	Microcystin YR	1.51	Spike	P	0 - 30
2245985	Nodularin-R	4.69	Spike	P	0 - 30

Quality Assurance Report
Precision

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2246433
Field Sample ID: SEHAB0033

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR-d7	123	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	110	P	30 - 160

Lab Sample ID: 2246434
Field Sample ID: SEHAB0034

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR-d7	97.6	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	93.8	P	30 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A105345
Included Lab Sample IDs: 2246433, 2246434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	110	118	P/P	50 - 160
Anatoxin-a	118	116	P/P	50 - 160
Cylindrospermopsin	103	112	P/P	50 - 160
Cylindrospermopsin	112	111	P/P	50 - 160
Desmethyl microcystin LR	91.9	87.4	P/P	50 - 160
Desmethyl microcystin LR	93.3	91.9	P/P	50 - 160
Microcystin HilR	101	99.4	P/P	50 - 160
Microcystin HilR	99.4	97.2	P/P	50 - 160
Microcystin HtyR	95.0	95.1	P/P	50 - 160
Microcystin HtyR	97.0	95.0	P/P	50 - 160
Microcystin LA	111	104	P/P	50 - 160
Microcystin LA	111	111	P/P	50 - 160
Microcystin LF	101	97.2	P/P	50 - 160
Microcystin LF	108	101	P/P	50 - 160
Microcystin LR	93.6	91.7	P/P	50 - 160
Microcystin LW	102	103	P/P	50 - 160
Microcystin LW	103	95.9	P/P	50 - 160
Microcystin LY	106	107	P/P	50 - 160
Microcystin LY	107	108	P/P	50 - 160
Microcystin RR	108	113	P/P	50 - 160
Microcystin RR	113	110	P/P	50 - 160
Microcystin WR	100	99.3	P/P	50 - 160
Microcystin WR	99.3	94.9	P/P	50 - 160
Microcystin YR	95.1	94.1	P/P	50 - 160
Microcystin YR	97.4	95.1	P/P	50 - 160
Nodularin-R	102	105	P/P	50 - 160
Nodularin-R	105	105	P/P	50 - 160

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A105353
Included Lab Sample IDs: 2246438, 2246439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.7	99.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A105396
Included Lab Sample IDs: 2246436, 2246437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A105399
Included Lab Sample IDs: 2246436, 2246437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	102	P/P	85 - 115

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A105442
Included Lab Sample IDs: 2246436, 2246437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.8	97.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A105472
Included Lab Sample IDs: 2246436, 2246437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	99.0	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	99.2	97.8	99.6			1.20
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	99.4	99.1			0.228
EPA 353.2 Rev. 2.0	NO2NO3-N	100	95.8				0.681
EPA 365.1 Rev. 2.0	Total-P	106	104	103			1.04
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	99.7	99.4			0.261
EPA 8321B	Anatoxin-a	113	113	117			3.94
	Cylindrospermopsin	108	106	108			2.32
	Desmethyl microcystin LR	102	103	107			4.11
	Microcystin HilR	110	112	115			1.97
	Microcystin HtyR	110	113	110			2.78
	Microcystin LA	113	111	114			2.75
	Microcystin LF	119	113	110			2.36
	Microcystin LR	96.5	92.3	98.1			5.88
	Microcystin LW	106	106	106			0.578
	Microcystin LY	112	110	111			0.347
	Microcystin RR	115	107	114			5.84
	Microcystin WR	103	106	106			0.156
	Microcystin YR	107	111	113			1.51
	Nodularin-R	109	113	119			4.69

Reference Method Descriptions

Method	Description	Associated Samples
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2246436, 2246437
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2246436, 2246437
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2246436, 2246437
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2246436, 2246437
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2246438, 2246439
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2246433, 2246434

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	05/11/2021			05/17/2021 13:30	Roberta Tatti	2246436
	05/11/2021			05/17/2021 13:31	Roberta Tatti	2246437
EPA 351.2 Rev. 2.0	05/11/2021	05/13/2021 14:43	Benjamin T. Nordmann	05/14/2021 13:53	Virginia P. Brown	2246436
	05/11/2021	05/13/2021 14:43	Benjamin T. Nordmann	05/14/2021 13:55	Virginia P. Brown	2246437
EPA 353.2 Rev. 2.0	05/11/2021			05/13/2021 10:28	Beverly Y. Sanders	2246436
	05/11/2021			05/13/2021 10:29	Beverly Y. Sanders	2246437
EPA 365.1 Rev. 2.0	05/11/2021	05/12/2021 13:55	Yen Ta	05/13/2021 11:17	Shengyu Ding	2246436
	05/11/2021	05/12/2021 13:55	Yen Ta	05/13/2021 11:19	Shengyu Ding	2246437
EPA 365.1 Rev. 2.0 dissolved	05/11/2021			05/11/2021 16:00	Blanca Fach	2246438
	05/11/2021			05/11/2021 16:01	Blanca Fach	2246439
EPA 8321B	05/11/2021	05/11/2021 12:30	Pramila Ghimire	05/12/2021 03:59	Pramila Ghimire	2246433
	05/11/2021	05/11/2021 12:30	Pramila Ghimire	05/12/2021 04:32	Pramila Ghimire	2246434
	05/11/2021	05/11/2021 12:30	Pramila Ghimire	05/12/2021 06:29	Pramila Ghimire	2246433