

Biological Analysis Report

WTRSHD-MGT-2012-02-03-02

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

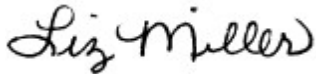
Event Description: **TMDL Sampling - Merritts Mill Pond SURFACE WATER**
Request ID: **RQ-2012-01-23-37**
Customer: **WTRSHD-MGT**
Project ID: **GRNT-10608**

Send Reports to:
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Certified by: Elizabeth Miller, Environmental Manager

Date Certified: 16-FEB-2012 11:58



Abbreviations and data remark codes

CERT # - NELAP (National Environmental Laboratory Accreditation Program) Certification Number of the laboratory that performed the analysis.

LCS – Laboratory Control Sample; in the QC Failures column, this notation indicates a batch recovery failure.

MS – Matrix Spike; in the QC Failures column, this notation indicates a batch recovery failure.

RPD – Relative Percent Difference; in the QC Failures column, this notation indicates a batch failure for precision.

CCV – Continuing Calibration Verification; in the QC Failures column, this notation indicates a failure of the calibration verification check sample.

RSD – Relative Standard Deviation expressed as a percentage.

SMP – Sample.

** - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

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

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).

Precision is reported as relative percent difference unless otherwise noted.

Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published test performance acceptance criteria.

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.

All sample collection performed by Bureau of Laboratories staff followed the field Standard Operating Procedures adopted by reference in Rule 62-160 FAC unless otherwise noted.

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.

Results for NELAP accredited tests contained in this report meet the requirements specified by the National Environmental Laboratory Accreditation Conference (NELAC). All samples received were in acceptable condition and met NELAC requirements unless otherwise noted. Results generated in this report pertain to the samples collected and submitted for analysis.

Job: TLH-2012-02-03-29

Job: TLH-2012-02-03-30

Group: Chlorophyll/Grain Size/BOD

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Sample Location: MMP-3**Collection Date/Time: 02/02/2012 01:01 PM****Field ID: MMP-3****Matrix: W-OTHER**

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Failures
1406404	SM 5210 B	Biochemical Oxygen Demand-5 Day,N-Inhib	0.44	IJ	mg/L	P235808	
1406405	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.2	I	ug/L	P235925	
		Phaeophytin-a	0.50	I	ug/L	P235925	

Ref. Method and Comment:

SM 5210 B: GGA Control Sample result was 130 ppm. The control sample acceptance limits are 165 +/- 26 ppm.

Quality Assurance Report Method Blank Results

Reference Method: SM 10200 H (mod.)**Batch ID: P235925**

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L
Phaeophytin-a	0.4	U	ug/L

Reference Method: SM 5210 B**Batch ID: P235808**

Component	Result	Code	Units
Biochemical Oxygen Demand-5 Day,N-Inhib	0.20	U	mg/L

Quality Assurance Report Precision

Reference Method: SM 10200 H (mod.)**Batch ID: P235925****Replicated**

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1406633	Chlorophyll-a, Corrected	2.72	Sample	P	0 - 25

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

Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
SM 10200 H (mod.)	Chlorophyll-a, Corrected				2.72	

Reference Method Descriptions

Method / NELAC Cert. #SM 10200 H (mod.) / E31780
SM 5210 B / E31780**Description**Phytoplankton chlorophyll-a (corrected for phaeophytin) and phaeophytin by spectrophotometry
BOD, nitrogen-inhibited (=CBOD)

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 10200 H (mod.)	02/03/2012	02/03/2012 13:30	Meiqin Chen	02/13/2012	Amelia G. Rankin	1406405
SM 5210 B	02/03/2012			02/03/2012 13:10	Jonathan M. Woods	1406404