

Biological Analysis Report

NE-DIST-2024-03-19-02

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

Overflow Analyses Performed By:
Diversified Environmental Laboratories, Inc.
3653 Regent Boulevard
Suite 509
Jacksonville, FL 32224
DOH Accreditation E821059

Event Description: **Bmap 1 and 2**
Request ID: **RQ-2024-03-04-73**
Customer: **NE-DIST**
Project ID: **BMAP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

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Certified by: Puja Jasrotia, Environmental Administrator

Date Certified: 25-MAR-2024 12:34



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 group are included in this report: Overflow.

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: GOODBYS CR ABOVE WEST BRANCH AT SAN CLERC **Collection Date/Time: 03/04/2024 09:20**

Field ID: 20030891

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476532	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	547.5		MPN/100 mL		

Sample Location: CRAIG CR AT HENDRICKS AVE **Collection Date/Time: 03/04/2024 09:50**

Field ID: 20030793

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476529	Enterolert/QT	Enterococci-Quanti-Tray	1259.0		MPN/100 mL		

Sample Location: CRAIG CR 100M DOWN FROM FOOTBRIDGE IN PARK **Collection Date/Time: 03/04/2024 10:05**

Field ID: 20030958

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476530	Enterolert/QT	Enterococci-Quanti-Tray	2359.0		MPN/100 mL		

Sample Location: LITTLE FISHWEIR AT OAK ST **Collection Date/Time: 03/04/2024 10:30**

Field ID: 20030953

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476533	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	5172.0		MPN/100 mL		

Sample Location: BIG FISHWEIR CR SF AT HAMILTON ST **Collection Date/Time: 03/04/2024 10:50**

Field ID: 20030801

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476534	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	2419.6	J	MPN/100 mL		

Ref. Method and Comment:
SM 9223 B Quanti-Tray: All Quanti-Tray wells were positive. Result may be higher than reported.

Sample Location: BUTCHER PEN CR AT CONFEDERATE PT ROAD **Collection Date/Time: 03/04/2024 11:05**

Field ID: 20030082

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476535	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	3448.0		MPN/100 mL		

Sample Location: BUTCHER PEN CR AT WESCONNETT **Collection Date/Time: 03/04/2024 11:20**

Field ID: 20030760

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476536	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	1014.0		MPN/100 mL		

Sample Location: MONCRIEF CR AT 21ST ST **Collection Date/Time: 03/04/2024 12:25**

Field ID: 20030897

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Field ID: 20030897

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476537	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	173.0		MPN/100 mL		

Sample Location: MONCRIEF CR AT MONCRIEF ROADCollection Date/Time: 03/04/2024 12:40

Field ID: 20030726

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476538	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	172.6		MPN/100 mL		

Sample Location: TROUT RIVER AT OLD KINGS RDCollection Date/Time: 03/04/2024 13:05

Field ID: 20030753

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476539	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	613.1		MPN/100 mL		

Sample Location: TROUT R AT DINSMORE BOAT RAMP DOCK NR US 1Collection Date/Time: 03/04/2024 13:20

Field ID: 20030123

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476531	Enterolert/QT	Enterococci-Quanti-Tray	2419.6	J	MPN/100 mL		

Ref. Method and Comment:
Enterolert/QT: All Quanti-Tray wells were positive. Result may be higher than reported. All Quanti-Tray wells were positive in the Laboratory Duplicate.
Laboratory Duplicate result is also >2419.6 MPN/100mL.

Sample Location: TERRAPIN CREEK AT FAYE RADCollection Date/Time: 03/04/2024 13:55

Field ID: 20030653

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476540	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	336.0		MPN/100 mL		

Sample Location: NW TRIBUTARY TO OPEN CR AT HODGESCollection Date/Time: 03/04/2024 14:30

Field ID: 20030848

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476541	SM 9223 B Quanti-Tray	Escherichia Coli-Quanti-Tray	413.2		MPN/100 mL		

Reference Method Descriptions

Method	Description	Associated Samples
Enterolert/QT	Enterococci by Enterolert/QT by Diversified Environmental Laboratories in Jacksonville	2476529, 2476530, 2476531
SM 9223 B Quanti-Tray	E. coli by Colilert/QT by Diversified Environmental Laboratories in Jacksonville	2476532, 2476533, 2476534, 2476535, 2476536, 2476537, 2476538, 2476539, 2476540, 2476541

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
Enterolert/QT	03/04/2024	03/04/2024 16:01		03/05/2024 16:01	Diversified-Jacksonville	2476529, 2476530, 2476531
SM 9223 B Quanti-Tray	03/04/2024	03/04/2024 15:47		03/05/2024 09:51	Diversified-Jacksonville	2476532, 2476533, 2476534, 2476535, 2476536, 2476537, 2476538, 2476539, 2476540, 2476541