

Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-221002-1

Client Project/Site: Mobile MS-4 Impaired Stream Sampling

For:

Neel-Schaffer Inc PO BOX 22625 Jackson, Mississippi 39225

Attn: Brian Morgan

13/2

Authorized for release by: 6/15/2022 4:05:08 PM

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LINKS



Have a Question?



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Job ID: 400-221002-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-221002-1

Comments

No additional comments.

Receipt

The samples were received on 6/6/2022 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

General Chemistry

Method SM 9222D: The following samples contained greater than 200 bacterial colonies, coliforms plus noncoliforms, per membrane: TOULMIN SPRINGS BRANCH (400-221002-1), UT TO THREE MILE CREEK (400-221002-2) and BOLTON BRANCH (EAST) (400-221002-4). The final results have been reported as "Too Numerous To Count" (TNTC).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221002-1

Analyte	Result Qualifier	RL	RL	Unit	Dil Fac	O Method	Prep Type
Coliform, Fecal	TNTC	1.0	1.0	CFU/100mL	1	SM 9222D	Total/NA
Escherichia coli	230	1.0	1.0	MPN/100mL	1	SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1	SM 9223	Total/NA

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221002-2

Analyte	Result Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	TNTC	1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221002-3

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Enterococci	12	1.0	1.0 MPN/100mL	1 Enterolert	Total/NA

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221002-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Coliform, Fecal	TNTC	1.0	1.0 CFU/100mL	. 1 SM 9222D	Total/NA
Escherichia coli	88	1.0	1.0 MPN/100ml	1 SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0 MPN/100ml	1 SM 9223	Total/NA

6/15/2022

Sample Summary

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-221002-1	TOULMIN SPRINGS BRANCH	Water	06/06/22 09:29	06/06/22 15:50
400-221002-2	UT TO THREE MILE CREEK	Water	06/06/22 10:07	06/06/22 15:50
400-221002-3	THREE MILE CREEK	Water	06/06/22 10:51	06/06/22 15:50
400-221002-4	BOLTON BRANCH (EAST)	Water	06/06/22 11:30	06/06/22 15:50

Job ID: 400-221002-1 Client: Neel-Schaffer Inc

Project/Site: Mobile MS-4 Impaired Stream Sampling

Date Collected: 06/06/22 09:29

Client Sample ID: TOULMIN SPRINGS BRANCH	Lab Sample ID: 400-221002-1
Date Collected: 06/06/22 09:29	Matrix: Water

Date Received: 06/06/22 15:50

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total		<u> </u>	0.10	0.049		_		06/08/22 12:53	1
-	=								
			•	DI	Unit	n	Propared	Analyzod	Dil Eac
Method: SM 9222D - Colifor Analyte		mbrane Filte	er) RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

Method: SM 9223 - Coliforms,	Total, and E	E.Coli (Colile	ert - Quanti T	ray)					
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	230		1.0	1.0	MPN/100mL	_		06/06/22 16:41	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/06/22 16:41	1

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221002-2 **Matrix: Water**

Date Collected: 06/06/22 10:07 Date Received: 06/06/22 15:50

General Chemistry								
Analyte	Result Qualific	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	<0.049	0.10	0.049	mg/L		06/07/22 11:42	06/08/22 12:54	1

Method: SM 9222D - Colif	orms, Fecal (Membrane Filte	er)					
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	TNTC	1.0	1.0 CFU/100mL			06/06/22 17:00	

Method: SM 9223 - Coliforn	thod: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)							
Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	>2400	1.0	1.0	MPN/100mL	_		06/06/22 16:41	1
Coliform, Total	>2400	1.0	1.0	MPN/100mL			06/06/22 16:41	1

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221002-3

Date Collected: 06/06/22 10:51 **Matrix: Water**

Date Received: 06/06/22 15:50

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			06/06/22 17:21	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogenous Biochemical Oxygen	<2.0		2.0	2.0	mg/L			06/06/22 17:21	1

Method: Enterolert - Enterococcus by Enterolert (Quantitray) Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac

1.0 MPN/100mL Enterococci 12 1.0 06/06/22 16:49

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Client Sample ID: BOLTON BRANCH (EAST)

Date Collected: 06/06/22 11:30

Date Received: 06/06/22 15:50

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	TNTC	1.0	1.0 CFU/100mL	_		06/06/22 17:00	1

Method: SM 9223 - Coliforms,	Total and E Cali (Calilant O.	. a m ti Trav
- Method: SW 9223 - Comorms.	. Total. and E.Coll (Colliert - Qt	Janu Travi
	,	

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	88		1.0	1.0	MPN/100mL			06/06/22 16:41	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/06/22 16:41	1

Lab Sample ID: 400-221002-4

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Matrix: Water

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Definitions/Glossary

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Qualifiers

General Chemistry

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Appreviation	These commonly used appreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

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6/15/2022

QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

General Chemistry

Prep Batch: 580390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221002-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	365.2/365.3/365	
400-221002-2	UT TO THREE MILE CREEK	Total/NA	Water	365.2/365.3/365	
MB 400-580390/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 400-580390/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 580486

Lab Sample ID 400-221002-3	Client Sample ID THREE MILE CREEK	Prep Type Total/NA	Matrix Water	Method 405.1	Prep Batch
400-221002-3	THREE MILE CREEK	Total/NA	Water	SM5210B CBOD	
USB 400-580486/1	Method Blank	Total/NA	Water	SM5210B CBOD	
LCS 400-580486/2	Lab Control Sample	Total/NA	Water	SM5210B CBOD	
400-221002-B-3 DU	400-221002-B-3 DU	Total/NA	Water	405.1	
400-221002-B-3 DU	THREE MILE CREEK	Total/NA	Water	SM5210B CBOD	

Analysis Batch: 580600

Lab Sample ID 400-221002-1	Client Sample ID TOULMIN SPRINGS BRANCH	Prep Type Total/NA	Matrix Water	Method 365.4	Prep Batch 580390
400-221002-2	UT TO THREE MILE CREEK	Total/NA	Water	365.4	580390
MB 400-580390/1-A	Method Blank	Total/NA	Water	365.4	580390
LCS 400-580390/2-A	Lab Control Sample	Total/NA	Water	365.4	580390
MRL 400-580600/10	Lab Control Sample	Total/NA	Water	365.4	

Biology

Analysis Batch: 580474

Lab Sample ID 400-221002-1	Client Sample ID TOULMIN SPRINGS BRANCH	Prep Type Total/NA	Matrix Water	Method SM 9223	Prep Batch
400-221002-2	UT TO THREE MILE CREEK	Total/NA	Water	SM 9223	
400-221002-4	BOLTON BRANCH (EAST)	Total/NA	Water	SM 9223	
MB 400-580474/1	Method Blank	Total/NA	Water	SM 9223	

Analysis Batch: 580488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221002-3	THREE MILE CREEK	Total/NA	Water	Enterolert	
MB 400-580488/1	Method Blank	Total/NA	Water	Enterolert	

Analysis Batch: 581432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221002-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	SM 9222D	-
400-221002-2	UT TO THREE MILE CREEK	Total/NA	Water	SM 9222D	
400-221002-4	BOLTON BRANCH (EAST)	Total/NA	Water	SM 9222D	
MB 400-581432/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-581432/2	Lab Control Sample	Total/NA	Water	SM 9222D	

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Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-580390/1-A

Analysis Batch: 580600

Client: Neel-Schaffer Inc.

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.10 06/07/22 11:42 06/08/22 12:32 Phosphorus, Total < 0.049 0.049 mg/L

Lab Sample ID: LCS 400-580390/2-A

Matrix: Water

Analyte

Matrix: Water

Analysis Batch: 580600

Spike Added 2.00

Result Qualifier 2.06

LCS LCS

MRL MRL

DU DU

<2.0

Result Qualifier

Unit mg/L

D %Rec 103

75 - 113

Client Sample ID: Lab Control Sample

%Rec

Limits

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 580390**

Prep Type: Total/NA **Prep Batch: 580390**

Prep Type: Total/NA

Lab Sample ID: MRL 400-580600/10

Matrix: Water

Phosphorus, Total

Phosphorus, Total

Analysis Batch: 580600

Analyte

Spike Added 0.100

Result Qualifier 0.0814 J

Unit mg/L

Unit

mg/L

%Rec

%Rec Limits 50 - 150

Method: 405.1 - BOD, 5-Day

Lab Sample ID: 400-221002-B-3 DU

Matrix: Water

Analysis Batch: 580486

Sample Sample Analyte Result Qualifier

Nitrogenous Biochemical Oxygen

Demand

Client Sample ID: 400-221002-B-3 DU Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec

Limits

85 - 115

Client Sample ID: THREE MILE CREEK

RPD

Prep Type: Total/NA

Prep Type: Total/NA

RPD Limit

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: USB 400-580486/1

Matrix: Water

Analysis Batch: 580486

USB USB

RL **MDL** Unit Analyte Result Qualifier Prepared Analyzed Dil Fac <2.0 2.0 2.0 mg/L 06/06/22 17:56 Carbonaceous Biochemical Oxygen

Demand

Lab Sample ID: LCS 400-580486/2

Matrix: Water

Matrix: Water

Oxygen Demand

Analysis Batch: 580486

Analyte Carbonaceous Biochemical Oxygen Demand

Lab Sample ID: 400-221002-B-3 DU

Analysis Batch: 580486

Analyte <2.0 Carbonaceous Biochemical

Sample Sample Result Qualifier

Spike

Added

198

DU DU Result Qualifier 2.17

LCS LCS

189

Result Qualifier

Unit mg/L

Unit

mg/L

D

%Rec

95

NC

RPD

Prep Type: Total/NA

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RPD

Limit

QC Sample Results

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

Lab Sample ID: MB 400-580488/1 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 580488

MB MB

Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Enterococci	<1.0	1.0	1.0 N	MPN/100mL	_		06/06/22 16:49	1

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-581432/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 581432

MB MB

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 1.0 CFU/100mL 1.0 Coliform, Fecal <1.0 06/06/22 15:24

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 400-580474/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 580474

MB MB Analyte Result Qualifier RL Analyzed Dil Fac **RL** Unit Prepared Escherichia coli <1.0 1.0 1.0 MPN/100mL 06/06/22 16:41

Coliform, Total <1.0 1.0 1.0 MPN/100mL 06/06/22 16:41

Prep Type: Total/NA

Job ID: 400-221002-1

Lab Sample ID: 400-221002-2

Lab Sample ID: 400-221002-4

Matrix: Water

Matrix: Water

Project/Site: Mobile MS-4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221002-1

Date Collected: 06/06/22 09:29 Date Received: 06/06/22 15:50

Client: Neel-Schaffer Inc

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	580390	06/07/22 11:42	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	580600	06/08/22 12:53	ANE	TAL PEN
Total/NA	Analysis	SM 9222D		1			581432		DVN	TAL PEN
							(Start)	06/06/22 17:00		
							(End)	06/07/22 16:08		
Total/NA	Analysis	SM 9223		1			580474	06/06/22 16:41	DVN	TAL PEN

Client Sample ID: UT TO THREE MILE CREEK

Date Collected: 06/06/22 10:07 Date Received: 06/06/22 15:50

Batch Batch Dil Initial Final Batch Prepared Method Factor **Prep Type** Type Run Amount **Amount** Number or Analyzed Analyst Lab Total/NA Prep 365.2/365.3/365 25 mL 25 mL 580390 06/07/22 11:42 ANE TAL PEN

Total/NA 365.4 10 mL 10 mL 580600 06/08/22 12:54 ANE TAL PEN Analysis 1 Total/NA Analysis SM 9222D 581432 DVN **TAL PEN** (Start) 06/06/22 17:00 (End) 06/07/22 16:08 580474 06/06/22 16:41 DVN Total/NA Analysis TAL PEN SM 9223

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221002-3 Date Collected: 06/06/22 10:51 **Matrix: Water** Date Received: 06/06/22 15:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	405.1		1	300 mL	300 mL	580486		DVN	TAL PEN
							(Start)	06/06/22 17:21		
							(End)	06/11/22 19:27		
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	580486		DVN	TAL PEN
							(Start)	06/06/22 17:21		
							(End)	06/11/22 19:27		
Total/NA	Analysis	Enterolert		1			580488	06/06/22 16:49	DVN	TAL PEN

Client Sample ID: BOLTON BRANCH (EAST)

Date Collected: 06/06/22 11:30

Date Received: 06/06/22 15:50

Prep Type Total/NA	Batch Type Analysis	Batch Method SM 9222D	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 581432	Prepared or Analyzed	Analyst DVN	Lab TAL PEN
	•						(Start)	06/06/22 17:00		
							(End)	06/07/22 16:08		
Total/NA	Analysis	SM 9223		1			580474	06/06/22 16:41	DVN	TAL PEN

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Matrix: Water

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Job ID: 400-221002-1

Matrix: Water

Project/Site: Mobile MS-4 Impaired Stream Sampling

Client Sample ID: Method Blank

Lab Sample ID: MB 400-580390/1-A

Matrix: Water

Date Collected: N/A Date Received: N/A

Client: Neel-Schaffer Inc

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	580390	06/07/22 11:42	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	580600	06/08/22 12:32	ANE	TAL PEN

Client Sample ID: Method Blank Lab Sample ID: MB 400-580474/1

Date Collected: N/A Date Received: N/A

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type **Amount Amount** Number or Analyzed Run **Factor** Analyst Lab Total/NA Analysis SM 9223 580474 06/06/22 16:41 DVN TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-580488/1 Date Collected: N/A **Matrix: Water**

Date Received: N/A

Dil Batch Batch Initial Final Batch **Prepared Prep Type** Method Factor Amount Number or Analyzed Type Run **Amount** Analyst Lab Total/NA Enterolert 580488 06/06/22 16:49 DVN TAL PEN Analysis

Client Sample ID: Method Blank

Lab Sample ID: MB 400-581432/1 Date Collected: N/A

Matrix: Water

Date Received: N/A

Batch Batch Dil Initial Final Batch **Prepared** Method Amount Number or Analyzed **Prep Type** Type Run **Factor Amount** Analyst Lab SM 9222D 581432 DVN TAL PEN Total/NA Analysis (Start) 06/06/22 15:24 (End) 06/07/22 16:08

Client Sample ID: Method Blank Lab Sample ID: USB 400-580486/1

Date Collected: N/A **Matrix: Water** Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	580486		DVN	TAL PEN
							(Start)	06/06/22 17:56		
							(End)	06/11/22 19:27		

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 400-580390/2-A

Date Collected: N/A Date Received: N/A

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 365.2/365.3/365 25 mL 25 mL 580390 06/07/22 11:42 ANE TAL PEN Total/NA Analysis 365.4 10 mL 10 mL 580600 06/08/22 12:33 ANE TAL PEN

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Matrix: Water

Lab Chronicle

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-580486/2 **Matrix: Water**

Date Collected: N/A Date Received: N/A

Batch Dil Initial Batch Batch Final Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA SM5210B CBOD TAL PEN

1 mL

1 mL

580486 DVN (Start) 06/06/22 17:56 (End) 06/11/22 19:27

Client Sample ID: Lab Control Sample

Analysis

Date Collected: N/A Date Received: N/A

Lab Sample ID: LCS 400-581432/2

Matrix: Water

Matrix: Water

Dil Batch Batch Initial Final Batch Prepared or Analyzed **Prep Type** Type Method **Amount Amount** Number Run **Factor Analyst** Lab Total/NA SM 9222D 581432 DVN TAL PEN Analysis (Start) 06/06/22 15:24 (End) 06/07/22 16:08

Client Sample ID: Lab Control Sample Lab Sample ID: MRL 400-580600/10

Date Collected: N/A

Date Received: N/A

Batch Batch Dil Initial Final **Batch** Prepared Method Number or Analyzed **Prep Type** Type **Factor** Amount Amount Run Analyst Lab 365.4 580600 06/08/22 12:26 ANE **TAL PEN** Total/NA Analysis 10 mL 10 mL

Client Sample ID: 400-221002-B-3 DU

Lab Sample ID: 400-221002-B-3 DU Date Collected: 06/06/22 10:51 **Matrix: Water** Date Received: 06/06/22 15:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	405.1		1	300 mL	300 mL	580486		DVN	TAL PEN
							(Start)	06/06/22 17:21		
							(End)	06/11/22 19:27		
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	580486		DVN	TAL PEN
							(Start)	06/06/22 17:21		
							(End)	06/11/22 19:27		

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Method	Method Description	Protocol	Laboratory
365.4	Phosphorus, Total	EPA	TAL PEN
405.1	BOD, 5-Day	MCAWW	TAL PEN
SM5210B CBOD	Carbonaceous BOD, 5 Day	SM	TAL PEN
Enterolert	Enterococcus by Enterolert (Quantitray)	IDEXX	TAL PEN
SM 9222D	Coliforms, Fecal (Membrane Filter)	SM	TAL PEN
SM 9223	Coliforms, Total, and E.Coli (Colilert - Quanti Tray)	SM	TAL PEN
365.2/365.3/365	Phosphorus, Total	MCAWW	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

IDEXX = IDEXX Laboratories

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola

Accreditation/Certification Summary

Client: Neel-Schaffer Inc Job ID: 400-221002-1

Project/Site: Mobile MS-4 Impaired Stream Sampling

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	03-31-23

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Chain of Custody Record

Eurofins TestAmerica, Pensacola 3355 McLemore Drive Pensacola, FL 23514 Phone (850) 474-1001 Fax (850) 478-2671

***** Eurofins** Environment Testing TestAmerica

Client Information	م	4	Lab PM:	Carrier Tracking No(s):	COC No.
Client Contact:	Phone:	ACK+(Bruzzi	o, Taylor M		400-85109-31845.1
Brian Morgan		taylor.	E-Mail: taylor.bruzzio@testamericainc.com		Page:
Company: Neel-Schaffer Inc					Page 1 of 1
Address:	Die Date Beginsted		Analysis Requested	quested	#000
210 25th Ave North Suite 800	ore care sequester.				Preservation Codes:
City: Nashville	TAT Requested (days):				
State, Zip. TN, 37203	T				C - Zn Acetate O - AsnaO2 D - Nitric Acid P - Na2O4S
Phone: 251-471-2000/Tel)	PO#:		(1		
Email: brian. morgan@neel-schaffer.com	VO#:				
Project Name. Mobile MS4 Impaired Stream Sampling	Project #: 40010963		l and E. BOD		J - DI Water K - EDTA L - EDA
orte:	SSOW#:		Fecs, Total		Other:
TEST AMERICA INC. 700 - MOBILE		Matrix (www.eter,	Filtered Same Coliforms - TSS		o Jo Jaquin
Sample Identification	Sample Date Time G=		HOE'S - LOSSE - BOSSE		
	X	Preservation Code:	S		Special instructions/Note:
Toulmin Springs Branch	6/6/12 9:29%	Grab Water	× ×		*Must set both BOD and CBOD
UT to Three Mile Creek	10/6/22 10:07 R. C	Grab Water	×		
Three Mile Creek	\$15.0100	Grab Water	×		
Bolton Branch (East)	122 11:319	+			NAME:
Halls Mill Creek #1	>	Grab Water	+		
Halls Mill Creek #2		-	: >		
Moore Creek		+	+		400-221002 COC
Bolton Branch (West)		-	+		
			+		
Possible Hazard Identification					
ole Skin Irritant	Poison B Unknown Radi	Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	assessed if samples are reta	tained longer than 1 month)
Emph. V.: Doile Collection (1977)			Special Instructions/QC Requirements:		MOTHE
Erripty Rit Reinduished by: Reinquished by:	Date		Time:	Method of Shipment:	
Relinquished by:	M2 11:50	AM Company	Received by:	Date/Time:	Company
Relin Lish of De	(-0,72 MS	Company	Received by	Date/Time	2 WK Comp
Custody Seals Intervier Crietody Seal Mo	562 B	S COMPANY	Received by:	Date(Time)	2 SSO Company
A Yes A No			Cooler Temperature(s) ^o C and Other Remarks:	2.00	100
					3

Client: Neel-Schaffer Inc Job Number: 400-221002-1

Login Number: 221002 List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Alexis J

Creator. Roberts, Alexis J		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Pensacola



Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-221383-1

Client Project/Site: Mobile MS4 Impaired Stream Sampling

For:

Neel-Schaffer Inc PO BOX 22625 Jackson, Mississippi 39225

Attn: Brian Morgan

Authorized for release by: 6/22/2022 4:17:03 PM

Taylor Bruzzio, Project Manager I (850)471-6226

Taylor.Bruzzio@et.eurofinsus.com

..... Links

Review your project results through

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-221383-1

Comments

No additional comments.

Receipt

The samples were received on $6/13/2022\ 3:45\ PM$. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was $0.0^{\circ}\ C$.

General Chemistry

Method SM 9222D: The following samples contained greater than 200 bacterial colonies, coliforms plus noncoliforms, per membrane: HALLS MILL CREEK #2 (400-221383-2) and BOLTON BRANCH (WEST) (400-221383-4). The final results has been reported as "Too Numerous To Count" (TNTC).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Lah	Samp	ماد	ID:	400	-221	383-1
Lab	Jailip	'nΕ	ID.	TUU	-22	JUJ-1

Analyte	Result Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	92	1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	120	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-221383-2

Analyte	Result Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	TNTC	1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	180	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: MOORE CREEK

Lab Sample ID: 400-221383-3

Analyte	Result (Qualifier RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	54	1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	54	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221383-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Coliform, Fecal	TNTC	1.0	1.0 CFU/100mL		SM 9222D	Total/NA
Escherichia coli	230	1.0	1.0 MPN/100mL	1	SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0 MPN/100mL	1	SM 9223	Total/NA

6/22/2022

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Sample Summary

Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-221383-1	HALLS MILL CREEK #1	Water	06/13/22 11:26	06/13/22 15:45
400-221383-2	HALLS MILL CREEK #2	Water	06/13/22 10:00	06/13/22 15:45
400-221383-3	MOORE CREEK	Water	06/13/22 09:26	06/13/22 15:45
400-221383-4	BOLTON BRANCH (WEST)	Water	06/13/22 09:42	06/13/22 15:45

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Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221383-1 Date Collected: 06/13/22 11:26

Matrix: Water

Date Received: 06/13/22 15:45

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<2.5		2.5	2.5	mg/L			06/15/22 16:26	1
- Method: SM 9222D - Coliforr	ms, Fecal (Membra	ne Filter)							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	92		1.0	1.0	CFU/100mL			06/13/22 16:40	1
- Method: SM 9223 - Coliform:	s, Total, and E.Coli	(Colilert - Qua	anti Tray)						
						_	D	A II	
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Escherichia coli	Result 120	Qualifier	1.0 RL	1.0	MPN/100mL	- U -	Prepared	06/13/22 16:30	Dil Fac

Eurofins Pensacola

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Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #2

Date Collected: 06/13/22 10:00

Date Received: 06/13/22 15:45

Lab Sample ID: 400-221383-2

Matrix: Water

	Qualifier	RL 2.5	MDL 2.5	Unit mg/L	_ <u>D</u> _	Prepared	Analyzed 06/15/22 16:26	Dil Fac
Method: SM 9222D - Coliforms, Fecal (Memb	rane Filter)							
Analyte Res	ult Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal TN	гс	1.0	1.0	CFU/100mL			06/13/22 16:40	1
Method: SM 9223 - Coliforms, Total, and E.C	oli (Colilert - Qu	anti Tray)						
Analyte Res	ult Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli 1	80	1.0	1.0	MPN/100mL			06/13/22 16:30	1
Coliform, Total >24	00	1.0	1.0	MPN/100mL			06/13/22 16:30	1

Eurofins Pensacola

6/22/2022

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Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: MOORE CREEK

Lab Sample ID: 400-221383-3 Date Collected: 06/13/22 09:26

Matrix: Water

Date Received: 06/13/22 15:45

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	54		1.0	1.0	CFU/100mL			06/13/22 16:40	1
Method: SM 9223 - Coliforn	ns, Total, and E.Coli	(Colilert - Qua	anti Tray)						
Method: SM 9223 - Coliforn Analyte		(Colilert - Qua	anti Tray) RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
		•	• • • • • • • • • • • • • • • • • • • •		Unit MPN/100mL	<u>D</u> -	Prepared	Analyzed 06/13/22 16:30	Dil Fac

Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221383-4 Date Collected: 06/13/22 09:42

Date Received: 06/13/22 15:45

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	TNTC		1.0	1.0	CFU/100mL			06/13/22 16:40	1
Method: SM 9223 - Coliforn	ns, Total, and E.Coli	(Colilert - Qua	anti Tray)						
		•	• ,	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SM 9223 - Coliforn Analyte		(Colilert - Qua	anti Tray)	RL	Unit	D	Prepared	Analyzed	Dil Fac
		•	• ,		Unit MPN/100mL	<u>D</u> .	Prepared	Analyzed 06/13/22 16:30	Dil Fac

Matrix: Water

Definitions/Glossary

Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Relative Percent Difference, a measure of the relative difference between two points

Glossary

RL RPD

TEF

TEQ

TNTC

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

6/22/2022

QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

General Chemistry

Analysis Batch: 581475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221383-1	HALLS MILL CREEK #1	Total/NA	Water	SM 2540D	
400-221383-2	HALLS MILL CREEK #2	Total/NA	Water	SM 2540D	
MB 400-581475/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 400-581475/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Biology

Analysis Batch: 582250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221383-1	HALLS MILL CREEK #1	Total/NA	Water	SM 9223	
400-221383-2	HALLS MILL CREEK #2	Total/NA	Water	SM 9223	
400-221383-3	MOORE CREEK	Total/NA	Water	SM 9223	
400-221383-4	BOLTON BRANCH (WEST)	Total/NA	Water	SM 9223	
MB 400-582250/1	Method Blank	Total/NA	Water	SM 9223	

Analysis Batch: 582263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221383-1	HALLS MILL CREEK #1	Total/NA	Water	SM 9222D	
400-221383-2	HALLS MILL CREEK #2	Total/NA	Water	SM 9222D	
400-221383-3	MOORE CREEK	Total/NA	Water	SM 9222D	
400-221383-4	BOLTON BRANCH (WEST)	Total/NA	Water	SM 9222D	
MB 400-582263/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-582263/2	Lab Control Sample	Total/NA	Water	SM 9222D	
400-221383-1 DU	HALLS MILL CREEK #1	Total/NA	Water	SM 9222D	

Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 400-581475/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 581475

	MB MB						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50	0.50	0.50 mg/L			06/15/22 16:26	1

Lab Sample ID: LCS 400-581475/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 581475

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids	 280	292		mg/L		104	82 - 118	

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-582263/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 582263

MB MB Analyte Result Qualifier RL RL Unit Prepared Analyzed Dil Fac Coliform, Fecal <1.0 1.0 1.0 CFU/100mL 06/13/22 16:40

Lab Sample ID: 400-221383-1 DU Client Sample ID: HALLS MILL CREEK #1 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 582263

		Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Coliform, Fecal	92		 92.0		CFU/100mL	_	 0	50

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 400-582250/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 582250

	MB	MB							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	<1.0		1.0	1.0	MPN/100mL	_		06/13/22 16:30	1
Coliform, Total	<1.0		1.0	1.0	MPN/100mL			06/13/22 16:30	1

6/22/2022

Prep Type: Total/NA

Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Date Collected: 06/13/22 11:26 Date Received: 06/13/22 15:45

Client: Neel-Schaffer Inc

Lab Sample ID: 400-221383-1

Matrix: Water

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	200 mL	100 mL	581475	06/15/22 16:26	VB	TAL PEN
Total/NA	Analysis	SM 9222D		1			582263		DVN	TAL PEN
							(Start)	06/13/22 16:40		
							(End)	06/14/22 15:22		
Total/NA	Analysis	SM 9223		1			582250	06/13/22 16:30	DVN	TAL PEN

Client Sample ID: HALLS MILL CREEK #2

Date Collected: 06/13/22 10:00

Date Received: 06/13/22 15:45

Lab Sample ID: 400-221383-2

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	200 mL	100 mL	581475	06/15/22 16:26	VB	TAL PEN
Total/NA	Analysis	SM 9222D		1			582263		DVN	TAL PEN
							(Start)	06/13/22 16:40		
							(End)	06/14/22 15:22		
Total/NA	Analysis	SM 9223		1			582250	06/13/22 16:30	DVN	TAL PEN

Client Sample ID: MOORE CREEK

Date Collected: 06/13/22 09:26

Date Received: 06/13/22 15:45

Lab Sample ID: 400-221383-3

Lab Sample ID: 400-221383-4

Lab Sample ID: MB 400-581475/1

Matrix: Water

Matrix: Water

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582263		DVN	TAL PEN
							(Start)	06/13/22 16:40		
							(End)	06/14/22 15:22		
Total/NA	Analysis	SM 9223		1			582250	06/13/22 16:30	DVN	TAL PEN

Client Sample ID: BOLTON BRANCH (WEST)

Date Collected: 06/13/22 09:42

Date Received: 06/13/22 15:45

Prep Type Total/NA	Batch Type Analysis	Batch Method SM 9222D	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 582263	Prepared or Analyzed	Analyst DVN	Lab TAL PEN
							(Start) (End)	06/13/22 16:40 06/14/22 15:22		
Total/NA	Analysis	SM 9223		1			582250	06/13/22 16:30	DVN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	1000 mL	100 mL	581475	06/15/22 16:26	VB	TAL PEN

Eurofins Pensacola

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582250/1 Date Collected: N/A

Matrix: Water

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9223		1			582250	06/13/22 16:30	DVN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582263/1

Matrix: Water

Date Collected: N/A Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582263		DVN	TAL PEN
							(Start)	06/13/22 16:40		
							(End)	06/14/22 15:22		

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-581475/2

Matrix: Water

Date Collected: N/A Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	100 mL	100 mL	581475	06/15/22 16:26	VB	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-582263/2

Matrix: Water

Matrix: Water

Date Collected: N/A Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582263		DVN	TAL PEN
							(Start)	06/13/22 16:40		
							(End)	06/14/22 15:22		

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221383-1 DU

Date Collected: 06/13/22 11:26

Date Received: 06/13/22 15:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582263		DVN	TAL PEN
							(Start)	06/13/22 16:40		
							(End)	06/14/22 15:22		

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PEN
SM 9222D	Coliforms, Fecal (Membrane Filter)	SM	TAL PEN
SM 9223	Coliforms, Total, and E.Coli (Colilert - Quanti Tray)	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Accreditation/Certification Summary

Client: Neel-Schaffer Inc Job ID: 400-221383-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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eurofins | Environment Testing M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone *Must set both BOD and CBOD Special Instructions/Note: W - pH 4-5 Z - other (specify) TestAmerica Months Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) COC No: 400-85109-31845.1 Preservation Codes: Ž H - Ascorbic Acid A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH Page: Page 1 of 1 Job #: DI Water K-EDTA L-EDA Archive For Total Mumber of containers 400-221383 COC Method of Shipment: Disposal By Lab **Analysis Requested** Cooler Temperature(s) °C and Other Remarks Special Instructions/QC Requirements: 2540D - TSS × × × × 365.4 - Phosphorus, Total Lab PM: Bruzzio, Taylor M E-Mail: taylor.bruzzio@testamericainc.com × × ENTEROLERT - Enterococci × GEGORA FROLZEWS × × × and E. Coli (QT) × × **Chain of Custody Record** × × × × × × Perform MS/MSD (Yes or No) Time: Field Filtered Sample (Yes or No) BT=Tissue, A=Ai (W=water, S=solid, O=waste/oil, Preservation Code: Water Water Water Water Matrix Water Water Water Water company Company Radiological ONFREF Type (C=comp, G=grab) Sample Grab Grab Grab Grab Grab Grab Grab Grab 3 g. 4) A Po#: Purchase Order Requested Sample Time 2 Unknown Date: 0 TAT Requested (days): Due Date Requested: 1212 Sample Date Project #: 40010963 Poison B Skin Irritant ☐ Non-Hazard ☐ Flammable ☐ Skin Irriti Deliverable Requested: I, II, III, IV, Other (specify) IEST AMERICA INC. 700 - MOBILE Custody Seal No. Phone (850) 474-1001 Fax (850) 478-2671

Bolton Branch (East)

Three Mile Creek

Halls Mill Creek #1

Toulmin Springs Branch UT to Three Mile Creek

Sample Identification

Project Name: Mobile MS4 Impaired Stream Sampling orian.morgan@neel-schaffer.com

251-471-2000(Tel)

State, Zip: TN, 37203 Nashville

Address: 210 25th Ave North Suite 800

Sompany: Neel-Schaffer, Inc

Brian Morgan

Eurofins TestAmerica, Pensacola

Pensacola, FL 32514

3355 McLemore Drive

Client Information

Custody Seals Intact: △ Yes △ No

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Sold

linquished by: elinquished by:

Empty Kit Relinquished by:

Possible Hazard Identification

Bolton Branch (West)

Halls Mill Creek #2

Moore Creek

Login Sample Receipt Checklist

Client: Neel-Schaffer Inc Job Number: 400-221383-1

Login Number: 221383 List Source: Eurofins Pensacola

List Number: 1

Creator: DeKlerk, Michaela

Greator: Deklerk, Michaela		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-221744-1

Client Project/Site: Mobile MS4 Impaired Stream Sampling

For:

Neel-Schaffer Inc PO BOX 22625 Jackson, Mississippi 39225

Attn: Brian Morgan

13/2

Authorized for release by: 6/22/2022 5:31:32 PM

Taylor Bruzzio, Project Manager I (850)471-6226

Taylor.Bruzzio@et.eurofinsus.com

..... Links



Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-221744-1

Comments

No additional comments.

Receipt

The samples were received on 6/20/2022 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221744-1

Analyte	Result Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	650	1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	91	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-221744-2

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	3.0	2.5	2.5	mg/L	1	_	SM 2540D	Total/NA
Coliform, Fecal	1900	1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	370	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: MOORE CREEK

Lab Sample ID: 400-221744-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	5100		1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	150		1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400		1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221744-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Coliform, Fecal	1400		1.0	1.0	CFU/100mL	1 -	SM 9222D	Total/NA
Escherichia coli	59		1.0	1.0	MPN/100mL	1	SM 9223	Total/NA
Coliform, Total	>2400		1.0	1.0	MPN/100mL	1	SM 9223	Total/NA

This Detection Summary does not include radiochemical test results.

6/22/2022

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Sample Summary

Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
400-221744-1	HALLS MILL CREEK #1	Water	06/20/22 09:51	06/20/22 16:20	
400-221744-2	HALLS MILL CREEK #2	Water	06/20/22 10:55	06/20/22 16:20	
400-221744-3	MOORE CREEK	Water	06/20/22 09:06	06/20/22 16:20	
400-221744-4	BOLTON BRANCH (WEST)	Water	06/20/22 09:19	06/20/22 16:20	

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Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221744-1 Date Collected: 06/20/22 09:51

Date Received: 06/20/22 16:20

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<2.5		2.5	2.5	mg/L			06/21/22 16:04	1
- Method: SM 9222D - Coliform	ns, Fecal (Membra	ne Filter)							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	650		1.0	1.0	CFU/100mL			06/20/22 17:02	1
- Method: SM 9223 - Coliforms	, Total, and E.Coli	(Colilert - Qua	anti Tray)						
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	91		1.0	1.0	MPN/100mL			06/20/22 17:00	1
Coliform Total	>2400		1.0	1.0	MPN/100mL			06/20/22 17:00	1

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Page 6 of 18

Matrix: Water

Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #2

Date Collected: 06/20/22 10:55 Date Received: 06/20/22 16:20

Coliform, Total

Lab Sample ID: 400-221744-2

06/20/22 17:00

Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0		2.5	2.5	mg/L			06/21/22 16:04	1
- Method: SM 9222D - Coliforms	s, Fecal (Membra	ne Filter)							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	1900		1.0	1.0	CFU/100mL			06/20/22 17:02	1
-									
Method: SM 9223 - Coliforms,	Total, and E.Coli	(Colilert - Qua	anti Tray)						
Method: SM 9223 - Coliforms, Analyte	•	(Colilert - Qua Qualifier	anti Tray) RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

1.0

>2400

1.0 MPN/100mL

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Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: MOORE CREEK

Lab Sample ID: 400-221744-3 Date Collected: 06/20/22 09:06

Matrix: Water

Date Received: 06/20/22 16:20

Method: SM 9222D - Coliforms,	Fecal (Membra	ne Filter)							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	5100		1.0	1.0	CFU/100mL			06/20/22 17:02	1
Method: SM 9223 - Coliforms, To Analyte	•	(Colilert - Qualifier	anti Tray)	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	150		1.0	1.0	MPN/100mL			06/20/22 17:00	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/20/22 17:00	1

Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221744-4

Date Collected: 06/20/22 09:19 Matrix: Water Date Received: 06/20/22 16:20

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	1400		1.0	1.0	CFU/100mL			06/20/22 17:02	1
- Markhards CM 0000 - Californ	Tital 5 0.11	(a !!! . a							
Wethod: SW 9223 - Colifori	ns, Total, and E.Coll	(Colliert - Qua	ınti Tray)						
Analyte	•	Qualifier Qua	inti Tray) RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SM 9223 - Colifora Analyte Escherichia coli	•	•	• •			<u>D</u> _	Prepared	Analyzed 06/20/22 17:00	Dil Fac

Definitions/Glossary

Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Relative Percent Difference, a measure of the relative difference between two points

Glossary

RL

RPD

TEF

TEQ

TNTC

,	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

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QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

General Chemistry

Analysis Batch: 582150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221744-1	HALLS MILL CREEK #1	Total/NA	Water	SM 2540D	
400-221744-2	HALLS MILL CREEK #2	Total/NA	Water	SM 2540D	
MB 400-582150/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 400-582150/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Biology

Analysis Batch: 582248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221744-1	HALLS MILL CREEK #1	Total/NA	Water	SM 9223	
400-221744-2	HALLS MILL CREEK #2	Total/NA	Water	SM 9223	
400-221744-3	MOORE CREEK	Total/NA	Water	SM 9223	
400-221744-4	BOLTON BRANCH (WEST)	Total/NA	Water	SM 9223	
MB 400-582248/1	Method Blank	Total/NA	Water	SM 9223	

Analysis Batch: 582265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221744-1	HALLS MILL CREEK #1	Total/NA	Water	SM 9222D	
400-221744-2	HALLS MILL CREEK #2	Total/NA	Water	SM 9222D	
400-221744-3	MOORE CREEK	Total/NA	Water	SM 9222D	
400-221744-4	BOLTON BRANCH (WEST)	Total/NA	Water	SM 9222D	
MB 400-582265/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-582265/2	Lab Control Sample	Total/NA	Water	SM 9222D	
400-221744-1 DU	HALLS MILL CREEK #1	Total/NA	Water	SM 9222D	

Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 400-582150/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 582150

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Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Total Suspended Solids <0.50 0.50 0.50 mg/L 06/21/22 16:04

Lab Sample ID: LCS 400-582150/2 Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA

Analysis Batch: 582150

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Total Suspended Solids 280 325 mg/L 116 82 - 118

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-582265/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

MB MB

Analyte Result Qualifier RL RL Unit Prepared Analyzed Dil Fac Coliform, Fecal <1.0 1.0 1.0 CFU/100mL 06/20/22 17:02

Lab Sample ID: 400-221744-1 DU Client Sample ID: HALLS MILL CREEK #1 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 582265

Analysis Batch: 582265

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Limit Coliform, Fecal 650 1000 CFU/100mL 50

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 400-582248/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 582248

	MB	MB							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	<1.0		1.0	1.0	MPN/100mL			06/20/22 17:00	1
Coliform, Total	<1.0		1.0	1.0	MPN/100mL			06/20/22 17:00	1

Prep Type: Total/NA

Job ID: 400-221744-1

Client: Neel-Schaffer Inc

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID: 400-221744-1

Matrix: Water

Client Sample ID: HALLS MILL CREEK #1

Date Collected: 06/20/22 09:51 Date Received: 06/20/22 16:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	200 mL	100 mL	582150	06/21/22 16:04	VB	TAL PEN
Total/NA	Analysis	SM 9222D		1			582265		DVN	TAL PEN
							(Start)	06/20/22 17:02		
							(End)	06/21/22 17:36		
Total/NA	Analysis	SM 9223		1			582248	06/20/22 17:00	DVN	TAL PEN

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-221744-2 Date Collected: 06/20/22 10:55 **Matrix: Water**

Date Received: 06/20/22 16:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	200 mL	100 mL	582150	06/21/22 16:04	VB	TAL PEN
Total/NA	Analysis	SM 9222D		1			582265		DVN	TAL PEN
							(Start)	06/20/22 17:02		
							(End)	06/21/22 17:36		
Total/NA	Analysis	SM 9223		1			582248	06/20/22 17:00	DVN	TAL PEN

Client Sample ID: MOORE CREEK

Lab Sample ID: 400-221744-3 Date Collected: 06/20/22 09:06 **Matrix: Water**

Date Received: 06/20/22 16:20

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582265		DVN	TAL PEN
							(Start)	06/20/22 17:02		
							(End)	06/21/22 17:36		
Total/NA	Analysis	SM 9223		1			582248	06/20/22 17:00	DVN	TAL PEN

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221744-4 Date Collected: 06/20/22 09:19 **Matrix: Water**

Date Received: 06/20/22 16:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582265		DVN	TAL PEN
							(Start)	06/20/22 17:02		
							(End)	06/21/22 17:36		
Total/NA	Analysis	SM 9223		1			582248	06/20/22 17:00	DVN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582150/1 Date Collected: N/A **Matrix: Water**

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	SM 2540D			1000 mL	100 mL	582150	06/21/22 16:04	VB	TAL PEN	_

Eurofins Pensacola

Lab Sample ID: MB 400-582248/1

Matrix: Water

Job ID: 400-221744-1

Date Collected: N/A Date Received: N/A

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	SM 9223		1			582248	06/20/22 17:00	DVN	TAL PEN

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582265/1 Date Collected: N/A **Matrix: Water**

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582265		DVN	TAL PEN
							(Start)	06/20/22 17:02		
							(End)	06/21/22 17:36		

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-582150/2 Date Collected: N/A

Matrix: Water

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D	·	1	100 mL	100 mL	582150	06/21/22 16:04	VB	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-582265/2 Date Collected: N/A **Matrix: Water**

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582265		DVN	TAL PEN
							(Start)	06/20/22 17:02		
							(End)	06/21/22 17:36		

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221744-1 DU Date Collected: 06/20/22 09:51 **Matrix: Water**

Date Received: 06/20/22 16:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582265		DVN	TAL PEN
							(Start)	06/20/22 17:02		
							(End)	06/21/22 17:36		

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PEN
SM 9222D	Coliforms, Fecal (Membrane Filter)	SM	TAL PEN
SM 9223	Coliforms, Total, and E.Coli (Colilert - Quanti Tray)	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Accreditation/Certification Summary

Client: Neel-Schaffer Inc Job ID: 400-221744-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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Ver: 01/16/2019

Eurofins TestAmerica, Pensacola 3355 McLemore Drive Pensacola, FL 32514	O	hain o	f Cust	hain of Custody Record	Score	70					,	💸 eurofins	NS Environment Testing TestAmerica	ë
FIGURE (030) 4/4-1001 FBX (030) 4/6-20/1	Sampler:	0		Lab PN	Lab PM:	;				Carrier Tracking No(s):		COC No:		
Client Contact Client Contact	Phone:	5	277	Bruzz E-Mail:	10, 13910	Z .						400-85109-3 Page:	1845.1	
Brian Morgan Company:)		taylor	taylor.bruzzio@testamericainc.com	∌testan	ericain	.com				Page 1 of 1		T
Neel-Schaffer, Inc							4	nalysi	s Req	Analysis Requested				
Address: 210 25th Ave North Suite 800	Due Date Requested	Ü					·					Preservation Codes	윰	
City: Nashville	TAT Requested (days):	ys):										A - HCL B - NaOH C - Zn Acetate		
State, Zip: TN, 37203												D - Nitric Acid E - NaHSO4		
Phone: 251-471-2000(Tel)	PO#: Purchase Order F	Requested			- 10	(TD)					_	F - MeOH G - Amchlor H - Ascorbic Acid		g
Emait: brian.morgan@neel-schaffer.com	.#OM					E. Coli				400-221744 COC			U - Acetone V - MCAA	!
Project Name: Mobile MS4 Impaired Stream Sampling	Project #: 40010963				10 28			lete	ıme	- - - ! -		K - EDTA L - EDA	W - pH 4-5 Z - other (specify)	
Site:	SSOW#:				y) asi				al fenie		103 10	Other:		
Sample Identification A ACDIO A INC	oten of other	d)	Sample Type (C=comp,		ield Filtered erform MS/W 222D - Colifon	223B - Coliforn	M5210B_CBO	05.1 - NBOD***	65.4 - Phospho		otal Mumber	otal Number	; \$0.00 i \$0.0	
	Sample Date	X	−1 03.	-	Į,	6 02		10.					Special ilisti uctiolis/Note.	
Toulmin Springs Branc			Grab	Water	×	×					-	*Must set b	*Must set both BOD and CBOD	
UT to Three Mile Creek			Grab	Water	×	×		Î	×					
Three Mile Creek			Grab	Water			×	×						
Bolton Branch (East)			Grab	Water	×	×								
Halls Mill Creek #1	(2/02/3	A IS	Grab	Water	×	×			×					
Halls Mill Creek #2	1,/20/2	10,55A	Grab	Water	×	×			×					
Moore Creek	121073	7 25.4r	Grab	Water	×	×								
Bolton Branch (West)	12/12/1	4 6	Grab	Water	×	×								
ant	Poison B Unknow		Radiological		Samp	le Disposal (A f Return To Client	osal (A To Clier	fee ma	y be a:	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month Return To Client Disposal BV Lab Hothive For Mor	are retail	tained longer tha Archive For	n 1 month) Months	
ested: I, II, III, IV, Other (specify)					Specia	Special Instructions/QC Requirements	ctions/C	C Requ	iremen	ts:				
Empty Kit Relinquished by:		Date:		П	Time:					Method of Shipment:	ij			
Relinquished by:	Date/Time:		0 W4 1	Company	Re	Received by	1.6	po		H Date/Time	nine: 20/22	11117	Company	
Relinquished by:	Date/Tighe:	2 14	20	Company	* V	Received by			0	Date(Time	998	#1 C1	SARY 9	
Custody Seals Infact: Custody Seal No.:	6/00/2	2/6	2	NA CONTRACTOR	8 8	received by. Cooler Temperature(s) °C and Other Remarks:	erature(s	°C and C	Other Reg	,	ini E		Company	
_					1			-	Ü	200			37.001/16/2010	٦

Login Sample Receipt Checklist

Client: Neel-Schaffer Inc Job Number: 400-221744-1

Login Number: 221744 List Source: Eurofins Pensacola

List Number: 1

Creator: Perez, Trina M

Creator: Perez, Irina M		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
ls the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-221501-1

Client Project/Site: Mobile MS4 Impaired Stream Sampling

For:

Neel-Schaffer Inc PO BOX 22625 Jackson, Mississippi 39225

Attn: Brian Morgan

1

Authorized for release by: 6/30/2022 6:23:31 PM

Taylor Bruzzio, Project Manager I (850)471-6226

Taylor.Bruzzio@et.eurofinsus.com

.....LINKS

Review your project results through

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-221501-1

Comments

No additional comments.

Receipt

The samples were received on 6/15/2022 3:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.5° C.

General Chemistry

Method SM 9222D: The following sample was received with less than 2 hours remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: TOULMIN SPRINGS BRANCH (400-221501-1).

Method SM 9223: The following sample was received with less than 2 hours remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: TOULMIN SPRINGS BRANCH (400-221501-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221501-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	0.088	J	0.10	0.049	mg/L	1	_	365.4	Total/NA
Coliform, Fecal	880	Н	1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	110	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221501-2

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Meth	od	Prep Type
Phosphorus, Total	0.16	0.10	0.049	mg/L	1	365.4	ļ	Total/NA
Coliform, Fecal	2900	1.0	1.0	CFU/100mL	1	SM 9	222D	Total/NA
Escherichia coli	>2400	1.0	1.0	MPN/100mL	1	SM 9	223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1	SM 9	223	Total/NA

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221501-3

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Enterococci	>2400	1.0	1.0 MPN/100mL	1	Enterolert	Total/NA

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221501-4

Analyte	Result Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	440	1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	89	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

This Detection Summary does not include radiochemical test results.

6/30/2022

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Sample Summary

Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-221501-1	TOULMIN SPRINGS BRANCH	Water	06/15/22 09:19	06/15/22 15:55
400-221501-2	UT TO THREE MILE CREEK	Water	06/15/22 10:00	06/15/22 15:55
400-221501-3	THREE MILE CREEK	Water	06/15/22 10:26	06/15/22 15:55
400-221501-4	BOLTON BRANCH (EAST)	Water	06/15/22 11:08	06/15/22 15:55

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Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Date Received: 06/15/22 15:55

Client Sample ID: TOULMIN SPRINGS BRANCH	Lab Sample ID: 400-221501-1
Date Collected: 06/15/22 09:19	Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.088	J	0.10	0.049	mg/L	_	06/22/22 15:02	06/24/22 11:33	1
Method: SM 9222D - Coli	forms, Fecal (Me	mbrane Filt	er)						
Method: SM 9222D - Colif	*	mbrane Filte	er) RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	110	H	1.0	1.0	MPN/100mL	_		06/15/22 17:40	1
Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/15/22 17:40	1

Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221501-2 **Matrix: Water**

Date Collected: 06/15/22 10:00 Date Received: 06/15/22 15:55

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.16		0.10	0.049	mg/L		06/22/22 15:02	06/24/22 11:34	1
Mothod: CM 0222D	California Food (Ma	mbrone Eilte							

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)								
	Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
	Coliform, Fecal	2900	1.0	1.0 CFU/100mL			06/15/22 17:24	1

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)									
	Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Escherichia coli	>2400	1.0	1.0	MPN/100mL	_		06/15/22 17:40	1
	Coliform, Total	>2400	1.0	1.0	MPN/100mL			06/15/22 17:40	1

Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

>2400

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221501-3

Date Collected: 06/15/22 10:26 Date Received: 06/15/22 15:55

Enterococci

_ab	Sample	ID. 400-22 130 1-3
		Matrix: Water

06/15/22 16:59

General Chemistry Analyte Carbonaceous Biochemical Oxygen Demand	Result <2.0	Qualifier	RL 2.0	MDL 2.0	Unit mg/L	<u>D</u> .	Prepared	Analyzed 06/15/22 17:56	Dil Fac
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogenous Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			06/15/22 17:56	1
Method: Enterolert - Enterocoo	cus by En	terolert (Qua	antitrav)						
Analyte	_	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

1.0

1.0 MPN/100mL

Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221501-4 **Matrix: Water**

Date Collected: 06/15/22 11:08 Date Received: 06/15/22 15:55

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	440	1.0	1.0 CFU/100mL			06/15/22 17:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	89		1.0	1.0	MPN/100mL	_		06/15/22 17:40	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/15/22 17:40	1

6/30/2022

Definitions/Glossary

Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Qualifiers

General Chemistry

Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Biology

Qualifier Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Pensacola

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QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

General Chemistry

Analysis Batch: 581767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
USB 400-581767/1	Method Blank	Total/NA	Water	405.1	
LCS 400-581767/2	Lab Control Sample	Total/NA	Water	405.1	

Analysis Batch: 581768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221501-3	THREE MILE CREEK	Total/NA	Water	405.1	
400-221501-3	THREE MILE CREEK	Total/NA	Water	SM5210B CBOD	
USB 400-581768/1	Method Blank	Total/NA	Water	SM5210B CBOD	
LCS 400-581768/2	Lab Control Sample	Total/NA	Water	SM5210B CBOD	

Prep Batch: 582315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221501-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	365.2/365.3/365	
400-221501-2	UT TO THREE MILE CREEK	Total/NA	Water	365.2/365.3/365	
MB 400-582315/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 400-582315/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 582593

Lab Sample ID 400-221501-1	Client Sample ID TOULMIN SPRINGS BRANCH	Prep Type Total/NA	Matrix Water	Method 365.4	Prep Batch 582315
400-221501-2	UT TO THREE MILE CREEK	Total/NA	Water	365.4	582315
MB 400-582315/1-A	Method Blank	Total/NA	Water	365.4	582315
LCS 400-582315/2-A	Lab Control Sample	Total/NA	Water	365.4	582315
MRL 400-582593/10	Lab Control Sample	Total/NA	Water	365.4	

Biology

Analysis Batch: 581616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221501-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	SM 9222D	
400-221501-2	UT TO THREE MILE CREEK	Total/NA	Water	SM 9222D	
400-221501-4	BOLTON BRANCH (EAST)	Total/NA	Water	SM 9222D	
MB 400-581616/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-581616/2	Lab Control Sample	Total/NA	Water	SM 9222D	

Analysis Batch: 581787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221501-3	THREE MILE CREEK	Total/NA	Water	Enterolert	
MB 400-581787/1	Method Blank	Total/NA	Water	Enterolert	

Analysis Batch: 582251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
400-221501-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	SM 9223
400-221501-2	UT TO THREE MILE CREEK	Total/NA	Water	SM 9223
400-221501-4	BOLTON BRANCH (EAST)	Total/NA	Water	SM 9223
MB 400-582251/1	Method Blank	Total/NA	Water	SM 9223

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Client: Neel-Schaffer Inc.

Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Prep Type: Total/NA

Prep Batch: 582315

Prep Type: Total/NA **Prep Batch: 582315**

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec

Limits

75 - 113

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-582315/1-A

Matrix: Water

Analysis Batch: 582593

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.10 06/22/22 15:02 06/24/22 11:15 Phosphorus, Total < 0.049 0.049 mg/L

Lab Sample ID: LCS 400-582315/2-A

Matrix: Water

Analysis Batch: 582593

Analyte

Phosphorus, Total

Spike Added 2.00

Result Qualifier 2.13

LCS LCS

MRL MRL

Unit mg/L

D %Rec 107

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: MRL 400-582593/10

Matrix: Water

Phosphorus, Total

Analysis Batch: 582593

Analyte

Spike Added 0.100

Result Qualifier 0.131

Unit mg/L %Rec

Limits 50 - 150

Client Sample ID: Lab Control Sample

%Rec

Method: 405.1 - BOD, 5-Day

Lab Sample ID: LCS 400-581767/2

Matrix: Water

Analysis Batch: 581767

Analyte **Biochemical Oxygen Demand**

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Spike Added 198

LCS LCS Result Qualifier 170

Unit mg/L

%Rec 86 %Rec Limits 85 - 115

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Lab Sample ID: USB 400-581768/1

Matrix: Water

Analysis Batch: 581768

USB USB

Analyte Result Qualifier < 2.0

Carbonaceous Biochemical Oxygen Demand

RL 2.0

MDL Unit 2.0 mg/L

Prepared

Analyzed 06/16/22 17:58

Dil Fac

Lab Sample ID: LCS 400-581768/2

Matrix: Water

Analysis Batch: 581768

Analyte Carbonaceous Biochemical Oxygen Demand

Spike Added 198

LCS LCS Result Qualifier 187

Unit mg/L

D %Rec 95 %Rec Limits

85 - 115

Client Sample ID: Method Blank

Prep Type: Total/NA

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

Lab Sample ID: MB 400-581787/1

Matrix: Water

Analysis Batch: 581787

MB MB

Analyte Result Qualifier Enterococci <1.0

RL RL Unit 1.0

1.0 MPN/100mL

Prepared

Prep Type: Total/NA

Analyzed

06/15/22 16:59

Dil Fac

Eurofins Pensacola

QC Sample Results

Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-581616/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 581616

MB MB

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 1.0 CFU/100mL Coliform, Fecal 06/15/22 13:38 <1.0 1.0

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 400-582251/1 **Client Sample ID: Method Blank**

Matrix: Water Prep Type: Total/NA

Analysis Batch: 582251

MB MB

Result Qualifier Analyte RL **RL** Unit Prepared Analyzed Dil Fac 1.0 <1.0 1.0 MPN/100mL 06/15/22 16:44 Escherichia coli Coliform, Total <1.0 1.0 1.0 MPN/100mL 06/15/22 16:44

Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221501-1 **Matrix: Water**

Date Collected: 06/15/22 09:19 Date Received: 06/15/22 15:55

Client: Neel-Schaffer Inc

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	582315	06/22/22 15:02	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	582593	06/24/22 11:33	ANE	TAL PEN
Total/NA	Analysis	SM 9222D		1			581616		DVN	TAL PEN
							(Start)	06/15/22 17:24		
							(End)	06/16/22 13:47		

Client Sample ID: UT TO THREE MILE CREEK

SM 9223

Date Collected: 06/15/22 10:00 Date Received: 06/15/22 15:55

Analysis

Total/NA

Lab Sample ID: 400-221501-2 **Matrix: Water**

Lab Sample ID: 400-221501-3

06/15/22 17:40 DVN

582251

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	582315	06/22/22 15:02	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	582593	06/24/22 11:34	ANE	TAL PEN
Total/NA	Analysis	SM 9222D		1			581616		DVN	TAL PEN
							(Start)	06/15/22 17:24		
							(End)	06/16/22 13:47		
Total/NA	Analysis	SM 9223		1			582251	06/15/22 17:40	DVN	TAL PEN

Client Sample ID: THREE MILE CREEK

Date Collected: 06/15/22 10:26 Date Received: 06/15/22 15:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	405.1		1	300 mL	300 mL	581768		DVN	TAL PEN
							(Start)	06/15/22 17:56		
							(End)	06/21/22 14:20		
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	581768		DVN	TAL PEN
							(Start)	06/15/22 17:56		
							(End)	06/21/22 14:20		
Total/NA	Analysis	Enterolert		1			581787	06/15/22 16:59	DEK	TAL PEN

Client Sample ID: BOLTON BRANCH (EAST)

Date Collected: 06/15/22 11:08

Date Received: 06/15/22 15:55

Prep Type Total/NA	Batch Type Analysis	Batch Method SM 9222D	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 581616	Prepared or Analyzed	Analyst DVN	Lab TAL PEN
	,						(Start)	06/15/22 17:24		
							(End)	06/16/22 13:47		
Total/NA	Analysis	SM 9223		1			582251	06/15/22 17:40	DVN	TAL PEN

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TAL PEN

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Matrix: Water

10

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: Method Blank

Date Collected: N/A Date Received: N/A

Lab Sample ID: MB 400-581616/1

Matrix: Water

TAL PEN

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			581616		DVN	TAL PEN
							(Start)	06/15/22 13:38		

Initial

Amount

Final

581787

(End) 06/16/22 13:47

Client Sample ID: Method Blank

Batch

Type

Analysis

Batch

Method

Enterolert

Date Collected: N/A Date Received: N/A

Lab Sample ID: MB 400-581787/1 **Matrix: Water**

Batch Prepared **Amount** Number or Analyzed **Analyst** Lab

06/15/22 16:59 DEK

Client Sample ID: Method Blank

Date Collected: N/A

Lab Sample ID: MB 400-582251/1

Run

Date Received: N/A

Prep Type

Total/NA

Batch Batch Dil Initial Final Batch **Prepared** Method **Prep Type** Type Run **Factor Amount Amount** Number or Analyzed Analyst Lab Total/NA Analysis SM 9223 582251 06/15/22 16:44 DVN TAL PEN

Dil

Factor

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-582315/1-A

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	582315	06/22/22 15:02	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	582593	06/24/22 11:15	ANE	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: USB 400-581767/1 **Matrix: Water**

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run Factor **Amount** Amount Number or Analyzed **Analyst** Lab Total/NA Analysis 405.1 300 mL 300 mL 581767 DVN TAL PEN (Start) 06/16/22 17:58 (End) 06/21/22 14:20

Client Sample ID: Method Blank

Date Collected: N/A Date Received: N/A

Lab Sample ID: USB 400-581768/1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	581768		DVN	TAL PEN
	•						(Start)	06/16/22 17:58		
							(End)	06/21/22 14:20		

Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: Lab Control Sample

Date Collected: N/A Date Received: N/A

Client: Neel-Schaffer Inc

Lab Sample ID: LCS 400-581616/2

Matrix: Water

Batch Dil Initial Batch Batch Final Prepared Method **Factor Prep Type** Type Run **Amount** Amount Number or Analyzed Analyst Lab Total/NA SM 9222D 581616 TAL PEN Analysis DVN (Start) 06/15/22 13:38 (End) 06/16/22 13:47

Client Sample ID: Lab Control Sample

Date Collected: N/A Date Received: N/A

Lab Sample ID: LCS 400-581767/2

Matrix: Water

10

Dil Batch Batch Initial Final **Batch** Prepared **Prep Type** Method Run Amount Amount Number or Analyzed Type **Factor Analyst** Lab Total/NA 405.1 1 mL 581767 DVN TAL PEN Analysis 1 mL (Start) 06/16/22 17:58 (End) 06/21/22 14:20

Client Sample ID: Lab Control Sample

Date Collected: N/A

Lab Sample ID: LCS 400-581768/2

Matrix: Water

Date Received: N/A

Batch Batch Dil Initial Final **Batch** Prepared Method **Prep Type** Type **Factor** Amount Amount Number or Analyzed Run Analyst Lab SM5210B CBOD **TAL PEN** Total/NA Analysis 1 mL 1 mL 581768 DVN (Start) 06/16/22 17:58 (End) 06/21/22 14:20

Initial

Amount

25 mL

10 mL

Dil

Factor

Run

Client Sample ID: Lab Control Sample

Batch

365.4

Method

365.2/365.3/365

Batch

Type

Prep

Analysis

Date Collected: N/A Date Received: N/A

Prep Type

Total/NA

Total/NA

Lab Sample ID: LCS 400-582315/2-A **Matrix: Water**

Final Batch Prepared Amount Number or Analyzed Analyst Lab 25 mL 582315 06/22/22 15:02 ANE TAL PEN

06/24/22 11:16

582593

10 mL

Client Sample ID: Lab Control Sample

Date Collected: N/A Date Received: N/A

Lab Sample ID: MRL 400-582593/10

ANE

Matrix: Water

TAL PEN

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4			10 mL	10 mL	582593	06/24/22 11:09	ANE	TAL PEN

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola

Method Summary

Client: Neel-Schaffer Inc

Project/Site: Mobile MS4 Impaired Stream Sampling

Method	Method Description	Protocol	Laboratory
365.4	Phosphorus, Total	EPA	TAL PEN
405.1	BOD, 5-Day	MCAWW	TAL PEN
SM5210B CBOD	Carbonaceous BOD, 5 Day	SM	TAL PEN
Enterolert	Enterococcus by Enterolert (Quantitray)	IDEXX	TAL PEN
SM 9222D	Coliforms, Fecal (Membrane Filter)	SM	TAL PEN
SM 9223	Coliforms, Total, and E.Coli (Colilert - Quanti Tray)	SM	TAL PEN
365.2/365.3/365	Phosphorus, Total	MCAWW	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

IDEXX = IDEXX Laboratories

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola

Job ID: 400-221501-1

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Accreditation/Certification Summary

Client: Neel-Schaffer Inc Job ID: 400-221501-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

Chain of Custody Record

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3355 Mclemore Drive)			-)	-											🔆 eurofins 🗀	Two Man
Pensacola, FL 32514 Phone (850) 474-1001 Fax (850) 478-2671	C	Chain of Custody Record	Custo	Jy Keo	iora												TestAmerica
Client Information	Sampler:	ON PAR	74.0	Lab PM: Bruzzio,	Taylor M	_				Carrier	Carrier Tracking No(s):	No(s):			2 4	COC No: 400-85109-31845.1	
Client Contact: Brian Morgan	Phone:	9	-	E-Mail: taylor.br	E-Mail: taylor.bruzzio@testamericainc.	estamer	icainc.c	.com							P _a	Page: Page 1 of 1	
Company: Neel-Schaffer, Inc								alysis	alysis Requested	ueste	ة ا				٥	Job #:	
Address:	Due Date Requested:														, <u>P</u>	00 00	
City: Nashville	TAT Requested (days):	s):													O @ 3	B - NaOH N - N	Vone
State, Zip: TN, 37203															ı m o		P - Na2O4S Q - Na2SO3
Phone: 251-471-2000(Tel)	PO#: Purchase Order Requested	Requested		1		(QT)									ב ה ד	Š.	Na2S2O3 12SO4
Email: brian moroan@neel-schaffer.com	WO #:			or No	0)	. Coli											U - Acetone V - MCAA
Project Name:	Project #:			(Yes			occi	al .									W - pH 4-5 Z - other (specify)
Site:	\$\$OW#:			nple			eroc	, Tot								Other:	
				d San													
TEST AMERICA INC.		Sa		Matrix re (w=water,	rm MS. - Colife	- Colifo	ROLER	· NBOD	- TSS					Klaumaka	Numbe		
/\0 - IVIODILL	Sample Date	Sample (C=	(C=comp, о=v G=grab) вт=тіs	<u> </u>	************				2540					Tata	tota	Special Instructions/Note:	tions/Note:
X	_	X	Preservation Code:	Code:	X	R	z	S	z						r		
Toulmin Springs Branch	U/15/229	3-2	Grab V	Water	×	×		×							<u>*</u>	*Must set both BOD and CBOD	D and CBOD
UT to Three Mile Creek	W'SY 22 1	3, 33 A	Grab V	Water	×	×		×									
Three Mile Creek	615/221	0/26A C	Grab V	Water		×	×	×									
Bolton Branch (East)	152751	22	Grab V	Water	×	×						Ĕ) ;				
Halls Mill Creek #1			Grab V	Water	×	×			×			Ť	X				
Halls Mill Creek #2		0	Grab V	Water	×	×			×		FI		m				
Moore Creek		- 0	Grab / W	Water	×	×					400-221501 COC	21501	00				
Bolton Branch (West)		0	Grab V	Water	×	×					_		L	L.			
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Po	Poison B Unknown		Radiological		Sample Disposal (A	Disposi	al (Af	fee ma	may be assessed if samples Disposal By Lab	sposa	assessed if san Disposal By Lab	ample	s are	□retai An	tained long	er than 1 mo	nth) Months
ested: I, II, III, IV, Other (specify)					Special Instructions/Q0	nstruction	ons/QC	Requi	Requirements:	įsi į	ŀ			ı			
Empty Kit Relinquished by:		Date:		Time:	ie:					3	Method of Shipment:	Shipm	ent:				
Relinquished by:	Date/Time:	11 754	Company	any	Recei	Received by:	\mathbb{W}	\mathbb{N}	μ			Date/Time	lime:	4	_	1 25 Com	Company
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Custody Seal Infact: Custody Seal No.: ∆ Yes ∆ No					Coole	Cooler Temperature(s)		C and O	Other Remarks:	larks:	0	(1)	C	l	B	3	
															•	Ver	Ver: 01/16/2019

Client: Neel-Schaffer Inc Job Number: 400-221501-1

Login Number: 221501 List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Alexis J

Oroutor: Noborto, Aloxio o		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5°C 6IR
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-221584-1

Client Project/Site: Mobile MS4 Impaired Stream Sampling

For:

Neel-Schaffer Inc PO BOX 22625 Jackson, Mississippi 39225

Attn: Brian Morgan

13/2

Authorized for release by: 6/30/2022 6:41:42 PM

Taylor Bruzzio, Project Manager I (850)471-6226

Taylor.Bruzzio@et.eurofinsus.com

LINKS



Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-221584-1

Comments

No additional comments.

Receipt

The samples were received on 6/16/2022 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.1° C.

General Chemistry

Method SM 9222D: The following samples were received with less than 2 hours remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MOORE CREEK (400-221584-3) and BOLTON BRANCH (WEST) (400-221584-4).

Method SM 9222D: The sample duplicate precision for the following sample associated with analytical batch 400-582266 was outside control limits: (400-221584-C-1 DU).

Method SM 9223: The following samples were received with less than 2 hours remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MOORE CREEK (400-221584-3) and BOLTON BRANCH (WEST) (400-221584-4).

Method SM 9223: The following samples were analyzed outside of analytical holding time due to analyst error: HALLS MILL CREEK #1 (400-221584-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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<u> 13</u>

Detection Summary

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221584-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	810		1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	69	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-221584-2

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	2.5	2.5	2.5	mg/L	1	_	SM 2540D	Total/NA
Coliform, Fecal	900	1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	290	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: MOORE CREEK

Lab Sample ID: 400-221584-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	1800	Н	1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	76	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221584-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type
Coliform, Fecal	880	Н	1.0	1.0	CFU/100mL	1	SM 9222D	Total/NA
Escherichia coli	73	Н	1.0	1.0	MPN/100mL	1	SM 9223	Total/NA
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL	1	SM 9223	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

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Sample Summary

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-221584-1	HALLS MILL CREEK #1	Water	06/16/22 10:34	06/16/22 16:30
400-221584-2	HALLS MILL CREEK #2	Water	06/16/22 11:06	06/16/22 16:30
400-221584-3	MOORE CREEK	Water	06/16/22 09:37	06/16/22 16:30
400-221584-4	BOLTON BRANCH (WEST)	Water	06/16/22 09:50	06/16/22 16:30

-1

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221584-1 Date Collected: 06/16/22 10:34

>2400 H

Matrix: Water

06/16/22 18:40

Date Received: 06/16/22 16:30

Coliform, Total

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<2.5		2.5	2.5	mg/L			06/17/22 16:16	1
Method: SM 9222D - Coliforn	ms, Fecal (Membra	ne Filter)							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	810		1.0	1.0	CFU/100mL			06/16/22 17:51	1
Method: SM 9223 - Coliforms	s, Total, and E.Coli	(Colilert - Qua	anti Tray)						
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	69	H	1.0	1.0	MPN/100mL			06/16/22 18:40	1

1.0

1.0 MPN/100mL

Eurofins Pensacola

6/30/2022

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #2

Coliform, Total

Lab Sample ID: 400-221584-2 Date Collected: 06/16/22 11:06

>2400

Matrix: Water Date Received: 06/16/22 16:30

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.5		2.5	2.5	mg/L			06/17/22 16:16	
Method: SM 9222D - Coliform	s, Fecal (Membra	ne Filter)							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	900		1.0	1.0	CFU/100mL			06/16/22 17:51	1
Method: SM 9223 - Coliforms	Total, and E.Coli	(Colilert - Qu	anti Tray)						
Michiga. Oli 3220 - Comornia						_			
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

1.0

1.0 MPN/100mL

06/16/22 18:40

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: MOORE CREEK

Lab Sample ID: 400-221584-3 Date Collected: 06/16/22 09:37

Matrix: Water

Date Received: 06/16/22 16:30

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	1800	Н	1.0	1.0	CFU/100mL			06/16/22 17:51	1
Method: SM 9223 - Coliforn		•	• •						
		•	• •	RL	Unit	D	Prepared	Analyzed	Dil Fac
		(Colilert - Qua	anti Tray)	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL			<u>D</u> .	Prepared		Dil Fac
		Qualifier	• •		Unit MPN/100mL	<u>D</u> -	Prepared	Analyzed 06/16/22 18:40	Dil Fac

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221584-4

Date Collected: 06/16/22 09:50 Matrix: Water Date Received: 06/16/22 16:30

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	880	Н	1.0	1.0	CFU/100mL			06/16/22 17:51	1
Method: SM 9223 - Coliform	s Total and F Coli	(Colilert - Qua	enti Trav)						
	•	•		RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SM 9223 - Coliform Analyte Escherichia coli	•	Qualifier	anti Tray) RL 1.0		Unit MPN/100mL	_ <u>D</u> _	Prepared	Analyzed 06/16/22 18:40	Dil Fa

Definitions/Glossary

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Qualifiers

R	iol	lo	a	١	
	v	v	У	Ľ	

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
Н	Sample was prepped or analyzed beyond the specified holding time

MDA

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

General Chemistry

Analysis Batch: 581792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221584-1	HALLS MILL CREEK #1	Total/NA	Water	SM 2540D	
400-221584-2	HALLS MILL CREEK #2	Total/NA	Water	SM 2540D	
MB 400-581792/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 400-581792/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Biology

Analysis Batch: 582252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221584-1	HALLS MILL CREEK #1	Total/NA	Water	SM 9223	
400-221584-2	HALLS MILL CREEK #2	Total/NA	Water	SM 9223	
400-221584-3	MOORE CREEK	Total/NA	Water	SM 9223	
400-221584-4	BOLTON BRANCH (WEST)	Total/NA	Water	SM 9223	
MB 400-582252/1	Method Blank	Total/NA	Water	SM 9223	

Analysis Batch: 582266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221584-1	HALLS MILL CREEK #1	Total/NA	Water	SM 9222D	
400-221584-2	HALLS MILL CREEK #2	Total/NA	Water	SM 9222D	
400-221584-3	MOORE CREEK	Total/NA	Water	SM 9222D	
400-221584-4	BOLTON BRANCH (WEST)	Total/NA	Water	SM 9222D	
MB 400-582266/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-582266/2	Lab Control Sample	Total/NA	Water	SM 9222D	
400-221584-1 DU	HALLS MILL CREEK #1	Total/NA	Water	SM 9222D	

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 400-581792/1

Matrix: Water

Analysis Batch: 581792

мв мв

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Total Suspended Solids <0.50 0.50 0.50 mg/L 06/17/22 16:16

Lab Sample ID: LCS 400-581792/2

Matrix: Water

Analysis Batch: 581792

Spike LCS LCS %Rec %Rec Analyte Added Result Qualifier Unit D Limits Total Suspended Solids 280 300 mg/L 107 82 - 118

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-582266/1

Matrix: Water

Analysis Batch: 582266

MB MB Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac Coliform, Fecal <1.0 1.0 1.0 CFU/100mL 06/16/22 17:51

Lab Sample ID: 400-221584-1 DU

Matrix: Water

Analysis Batch: 582266

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Coliform, Fecal 810 1400 F3 CFU/100mL 50

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 400-582252/1

Matrix: Water

Analysis Batch: 582252

мв мв Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac Escherichia coli <1.0 1.0 1.0 MPN/100mL 06/16/22 18:40 Coliform, Total <1.0 1.0 1.0 MPN/100mL 06/16/22 18:40

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: HALLS MILL CREEK #1

Prep Type: Total/NA

Job ID: 400-221584-1

Client: Neel-Schaffer Inc

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID: 400-221584-1

Matrix: Water

Client Sample ID: HALLS MILL CREEK #1

Date Collected: 06/16/22 10:34 Date Received: 06/16/22 16:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	200 mL	100 mL	581792	06/17/22 16:16	VB	TAL PEN
Total/NA	Analysis	SM 9222D		1			582266		DEK	TAL PEN
							(Start)	06/16/22 17:51		
							(End)	06/17/22 17:26		
Total/NA	Analysis	SM 9223		1			582252	06/16/22 18:40	DVN	TAL PEN

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-221584-2

Matrix: Water

Date Collected: 06/16/22 11:06 Date Received: 06/16/22 16:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	200 mL	100 mL	581792	06/17/22 16:16	VB	TAL PEN
Total/NA	Analysis	SM 9222D		1			582266		DEK	TAL PEN
							(Start)	06/16/22 17:51		
							(End)	06/17/22 17:26		
Total/NA	Analysis	SM 9223		1			582252	06/16/22 18:40	DVN	TAL PEN

Client Sample ID: MOORE CREEK

Lab Sample ID: 400-221584-3

Matrix: Water

Date Collected: 06/16/22 09:37 Date Received: 06/16/22 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582266		DEK	TAL PEN
							(Start)	06/16/22 17:51		
							(End)	06/17/22 17:26		
Total/NA	Analysis	SM 9223		1			582252	06/16/22 18:40	DVN	TAL PEN

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221584-4

Matrix: Water

Date Collected: 06/16/22 09:50 Date Received: 06/16/22 16:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582266		DEK	TAL PEN
							(Start)	06/16/22 17:51		
							(End)	06/17/22 17:26		
Total/NA	Analysis	SM 9223		1			582252	06/16/22 18:40	DVN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-581792/1

Matrix: Water

Date Collected: N/A Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	SM 2540D			1000 mL	100 mL	581792	06/17/22 16:16	VB	TAL PEN	

Client: Neel-Schaffer Inc

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582252/1 Date Collected: N/A

Matrix: Water

Job ID: 400-221584-1

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9223		1			582252	06/16/22 18:40	DVN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582266/1

Matrix: Water

Date Collected: N/A Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582266		DEK	TAL PEN
							(Start)	06/16/22 17:51		
							(End)	06/17/22 17:26		

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-581792/2

Matrix: Water

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Date Collected: N/A Date Received: N/A

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Method Factor Amount Amount Number or Analyzed Type Run Analyst Lab Total/NA Analysis SM 2540D 100 mL 100 mL 581792 06/17/22 16:16 VΒ TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-582266/2

Matrix: Water

Matrix: Water

Date Collected: N/A Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582266		DEK	TAL PEN
							(Start)	06/16/22 17:51		
							(End)	06/17/22 17:26		

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221584-1 DU

Date Collected: 06/16/22 10:34

Date Received: 06/16/22 16:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582266		DEK	TAL PEN
							(Start)	06/16/22 17:51		
							(End)	06/17/22 17:26		

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PEN
SM 9222D	Coliforms, Fecal (Membrane Filter)	SM	TAL PEN
SM 9223	Coliforms, Total, and E.Coli (Colilert - Quanti Tray)	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Accreditation/Certification Summary

Client: Neel-Schaffer Inc Job ID: 400-221584-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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Chain of Custody Record

Eurofins TestAmerica, Pensacola 3355 McLemore Drive Pensacola, FL 32514 Phone (850) 474-1001 Fax (850) 478-2671

Client Information	Sampler:	MIRPL	Lab PM: Bruzzio, Taylor M	aylor M				Carrier Tracking No(s):	g No(s):		COC No: 400-85109-31845.	345.1
Client Contact: Brian Morgan	1		E-Mail: taylor.bruzzio@testamericainc.com	zzio@tes	tamericai	nc.com					Page: Page 1 of 1	
Company: Neel-Schaffer. Inc			_			Analys	is Red	Analysis Reguested			Job #:	
Address:	Due Date Requested:				L						Preservation Codes	odes:
210 25th Ave North Suite 800											A - HCL	
City: Nashville	TAT Requested (days):										B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: TN, 37203	Г		*								D - Nitric Acid E - NaHSO4	
Phone: 251-471-2000(Tel)	PO#: Purchase Order Requested		(0	(10)	(17)					*	F - MeOn G - Amchlor H - Ascorbic Acid	
Email: brian.morgan@neel-schaffer.com	WO#:			***************************************						s.i	I - Ice J - DI Water	
Project Name: Mobile MS4 Impaired Stream Sampling	Project #: 40010963			lsa	свор	100000	lsto			enistn	K-EDIA L-EDA	vv - pri 4-5 Z - other (specify)
Site:	SSOW#:		*************	ns, Fec	- as a		T ,euro			100 10	Other:	
TEST AMERICA INC. Sample Identification 700 - MOBILE	Sample Date Time	Sample (v Type (c=comp, o=G=grab) BT=TT	Matrix et (W=water, S=solid, O=waste/oll, ET ET ET ET ET ET ET ET	Perform MS/M 9222D - Coliforn	2M5210B_CBOI	ENTEROLERT -	365.4 - Phospho			TedmuM lstoT	Special I	Special Instructions/Note:
	()	100		A R	z	z	z s			X		
Toulmin Springs Branch		Grab \	Water	×	×		×				*Must set bot	*Must set both BOD and CBOD
UT to Three Mile Creek		Grab \	Water	×	×		×					
Three Mile Creek		Grab \	Water		×	×						
Bolton Branch (East)		Grab \	Water	×	×						*****	
Halls Mill Creek #1	11/2/2/19/19	Grab	Water	×	×		×				Ł	
Halls Mill Creek #2	\$-0.11 R/01/9	Grab	Water	×	×		×					
Moore Creek	6/16/22937 \$	Grab	Water	×	×					6 6	400-221584 COC	
Bolton Branch (West)	A02, P15/61/2	Grab	Water	×	×							
Identification				ample D	 isposal (A fee m	ay be a	ssessed if	samples ar	e retain	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	1 month)
Non-Hazard Flammable Skin Irritant Poison B Deliverable Remiested: 1 III IN Other (snecify)	son B Unknown	Radiological		Ret Pecial In	Special Instructions/OC Requirements	ent OC Rec		^J Disposal By Lab	ab L	Arch	Archive For	Months
Converged respected. 1, 11, 111, 17, Office (Specify)			,	pecial III	פוומסוופ	2		.				
Empty Kit Relinquished by:	Date:		Time	l I				Method	Method of Shipment:			
Relinquished by:	Date/Time:	135 Am	Company	Received by	rd by:	M			Date/Time: 16-7	16-7	120 A 20	
Relinquished by:	76 9	MSD Com	Сотрапу	Received			1		Date	16/9	23/1-62	COMPAYS COMPAYS
/ /	Date/Time: 16/29	630	505	Received by		\bigwedge	N	$ \cdot $	Date	5/2	2 1630	Company
Custody Seals Intact: Custody Seal No.: △ Yes △ No				Gooter .	Gooter Temperature(s) °C and Other Remarks:	i(s) °C and	Other Rer	narks:	(N)	M.		
												Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Neel-Schaffer Inc Job Number: 400-221584-1

Login Number: 221584 List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Alexis J

Creator: Roberts, Alexis J		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-221858-1

Client Project/Site: Mobile MS4 Impaired Stream Sampling

For:

Neel-Schaffer Inc PO BOX 22625 Jackson, Mississippi 39225

Attn: Brian Morgan

1/2

Authorized for release by: 6/30/2022 6:45:35 PM

Taylor Bruzzio, Project Manager I (850)471-6226

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.....LINKS

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Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-221858-1

Comments

No additional comments.

Receipt

The samples were received on 6/22/2022 3:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0° C.

General Chemistry

Method SM 9222D: The following samples were analyzed outside of analytical holding time due to analyst error: TOULMIN SPRINGS BRANCH (400-221858-1), UT TO THREE MILE CREEK (400-221858-2) and BOLTON BRANCH (EAST) (400-221858-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221858-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	0.29		0.10	0.049	mg/L	1	_	365.4	Total/NA
Coliform, Fecal	770	Н	1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	690		1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400		1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221858-2

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	0.41	0.10	0.049	mg/L	1	_	365.4	Total/NA
Coliform, Fecal	>2400 H	1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221858-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Enterococci	76		1.0	1.0	MPN/100mL	1	_	Enterolert	Total/NA

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221858-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Coliform, Fecal	730 H	1.0	1.0 CFU/100mL		SM 9222D	Total/NA
Escherichia coli	770	1.0	1.0 MPN/100mL	. 1	SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0 MPN/100mL	. 1	SM 9223	Total/NA

Sample Summary

Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-221858-1	TOULMIN SPRINGS BRANCH	Water	06/22/22 09:36	06/22/22 15:45
400-221858-2	UT TO THREE MILE CREEK	Water	06/22/22 10:06	06/22/22 15:45
400-221858-3	THREE MILE CREEK	Water	06/22/22 10:40	06/22/22 15:45
400-221858-4	BOLTON BRANCH (EAST)	Water	06/22/22 11:17	06/22/22 15:45

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Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

770 H

Date Collected: 06/22/22 09:36

Date Received: 06/22/22 15:45

Coliform, Fecal

_ G	General Chemistry									
Α	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
P	hosphorus, Total	0.29		0.10	0.049	mg/L		06/28/22 18:04	06/29/22 13:01	1
N	Method: SM 9222D - Coliforms	s, Fecal (Me	embrane Filte	er)						
Α	nalyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

1.0

1.0 CFU/100mL

Method: SM 9223 - Coliforms,	Total, and E.	Coli (Coliler	t - Quanti	Tray)					
Analyte	Result Q	ualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	690		1.0	1.0	MPN/100mL	_		06/22/22 16:10	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/22/22 16:10	1

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Matrix: Water

Lab Sample ID: 400-221858-1

06/23/22 14:26

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Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221858-2 **Matrix: Water**

Date Collected: 06/22/22 10:06 Date Received: 06/22/22 15:45

Analyte Result Phosphorus, Total Qualifier RL MDL Unit mg/L D 06/28/22 18:13 Prepared 06/29/22 13:04 Analyzed Dil F 06/29/22 13:04	General Chemistry									
Phosphorus, Total 0.41 0.10 0.049 mg/L 06/28/22 18:13 06/29/22 13:04	Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Phosphorus, Total	0.41		0.10	0.049	mg/L		06/28/22 18:13	06/29/22 13:04	1

Method: SM 9222D - Coliforms	s, Fecal (Membrane Filter	')					
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	>2400 H	1.0	1.0 CFU/100mL	_		06/23/22 14:26	1

Method: SM 9223 - Coliforms,	Total, and E.Coli (Coli	lert - Quanti 1	Ггау)					
Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	>2400	1.0	1.0	MPN/100mL	_		06/22/22 16:10	1
Coliform, Total	>2400	1.0	1.0	MPN/100mL			06/22/22 16:10	1

Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: THREE MILE CREEK

Date Collected: 06/22/22 10:40

Result Qualifier

<2.0

Date Received: 06/22/22 15:45

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen	<2.0		2.0	2.0	mg/L			06/22/22 18:01	1
Demand									

RL

2.0

RL Unit

2.0 mg/L

Nitrogenous Biochemical Oxygen Demand

Method: Enterolert - Enterocoo	ccus by Enterolert (Qu	antitray)					
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Enterococci	76	1.0	1.0 MPN/100mL			06/22/22 17:09	1

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Lab Sample ID: 400-221858-3

Analyzed

06/22/22 18:01

Prepared

Matrix: Water

Dil Fac

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Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221858-4 Date Collected: 06/22/22 11:17 **Matrix: Water**

Date Received: 06/22/22 15:45

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	730	H	1.0	1.0	CFU/100mL			06/23/22 14:26	1

1					
1	Method: SM 9223 - Coliforms	Tatal	and E Cali	(Calilant	Outpost: Trouv
ı	Method: SW 9223 - Comorms	. TOTAL	. and E.Coli (Comert -	Quanti travi

Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	770	1.0	1.0	MPN/100mL	_		06/22/22 16:10	1
Coliform, Total	>2400	1.0	1.0	MPN/100mL			06/22/22 16:10	1

Definitions/Glossary

Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Qualifiers

Biology

Qualifier Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
	

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

General Chemistry

Analysis Batch: 582664

Lab Sam	nple ID Client Sa	ımple ID Pr	rep Type I	Matrix	Method	Prep Batch
400-2218	THREE N	MILE CREEK To	otal/NA \	Water 4	405.1	
400-2218	358-3 THREE M	MILE CREEK To	otal/NA \	Nater :	SM5210B CBOD	
USB 400	-582664/1 Method E	Blank To	otal/NA \	Nater :	SM5210B CBOD	
LCS 400	-582664/2 Lab Cont	rol Sample To	otal/NA \	<i>N</i> ater	SM5210B CBOD	

Prep Batch: 583059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221858-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	365.2/365.3/365	
400-221858-2	UT TO THREE MILE CREEK	Total/NA	Water	365.2/365.3/365	
MB 400-583059/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 400-583059/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 583148

Lab Sample ID 400-221858-1	Client Sample ID TOULMIN SPRINGS BRANCH	Prep Type Total/NA	Matrix Water	Method 365.4	Prep Batch 583059
400-221858-2	UT TO THREE MILE CREEK	Total/NA	Water	365.4	583059
MB 400-583059/1-A	Method Blank	Total/NA	Water	365.4	583059
LCS 400-583059/2-A	Lab Control Sample	Total/NA	Water	365.4	583059
MRL 400-583148/2	Lab Control Sample	Total/NA	Water	365.4	

Biology

Analysis Batch: 582535

Lab Sample ID 400-221858-1	Client Sample ID TOULMIN SPRINGS BRANCH	Prep Type Total/NA	Matrix Water	Method SM 9223	Prep Batch
400-221858-2	UT TO THREE MILE CREEK	Total/NA	Water	SM 9223	
400-221858-4	BOLTON BRANCH (EAST)	Total/NA	Water	SM 9223	
MB 400-582535/1	Method Blank	Total/NA	Water	SM 9223	

Analysis Batch: 582737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221858-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	SM 9222D	
400-221858-2	UT TO THREE MILE CREEK	Total/NA	Water	SM 9222D	
400-221858-4	BOLTON BRANCH (EAST)	Total/NA	Water	SM 9222D	
MB 400-582737/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-582737/2	Lab Control Sample	Total/NA	Water	SM 9222D	

Analysis Batch: 582974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221858-3	THREE MILE CREEK	Total/NA	Water	Enterolert	
MB 400-582974/1	Method Blank	Total/NA	Water	Enterolert	

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RL

0.10

Spike

Added

2.00

Spike

Added

Spike

Added

198

MDL Unit

0.049 mg/L

LCS LCS

MRL MRL

0.124

RL

2.0

RL

1.0

RL

1.0

Result Qualifier

MDL Unit

LCS LCS

185

2.0 mg/L

RL Unit

RL Unit

1.0 CFU/100mL

1.0 MPN/100mL

2.13

Result Qualifier

Unit

mg/L

Unit

mg/L

Job ID: 400-221858-1

Dil Fac

Client: Neel-Schaffer Inc.

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-583059/1-A

Matrix: Water

Analysis Batch: 583148

MB MB

USB USB

<2.0

Result Qualifier

Result Qualifier

<1.0

Result Qualifier Analyte

Phosphorus, Total < 0.049

Lab Sample ID: LCS 400-583059/2-A **Matrix: Water**

Analysis Batch: 583148

Analyte Phosphorus, Total

Lab Sample ID: MRL 400-583148/2

Matrix: Water

Analysis Batch: 583148

Analyte

Phosphorus, Total

0.100 Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: USB 400-582664/1

Matrix: Water

Analysis Batch: 582664

Analyte

Carbonaceous Biochemical Oxygen

Lab Sample ID: LCS 400-582664/2

Matrix: Water

Analysis Batch: 582664

Analyte

Carbonaceous Biochemical Oxygen Demand

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

Lab Sample ID: MB 400-582974/1

Matrix: Water

Analyte

Enterococci

Analysis Batch: 582974

MB MB

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-582737/1 **Matrix: Water**

Analysis Batch: 582737

MB MB

Analyte Result Qualifier

Coliform, Fecal <1.0

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 583059

06/28/22 18:04 06/29/22 12:38

Client Sample ID: Lab Control Sample

Prepared

D %Rec

106

%Rec

Prepared

Prep Type: Total/NA **Prep Batch: 583059**

%Rec Limits

Analyzed

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

75 - 113

%Rec Limits

50 - 150

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

Dil Fac

06/22/22 18:23

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec

Result Qualifier Limits Unit %Rec mg/L 93 85 - 115

Prepared

Prepared

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyzed Dil Fac

06/22/22 16:15

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyzed Dil Fac 06/23/22 14:26

Eurofins Pensacola

6/30/2022

QC Sample Results

Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 400-582535/1

Matrix: Water

Analysis Batch: 582535

Client Sam	ple ID: N	<mark>/lethod</mark>	Blank
	Pron Ty	yne: Tot	αΙ/ΝΔ

-	MB	MB							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	<1.0		1.0	1.0	MPN/100mL	_		06/22/22 16:10	1
Coliform, Total	<1.0		1.0	1.0	MPN/100mL			06/22/22 16:10	1

Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Olivert Consulty IDs TOUR MINI OPPINION DRAN

Client Sample ID: TOULMIN SPRINGS BRANCH

Date Collected: 06/22/22 09:36 Date Received: 06/22/22 15:45

Client: Neel-Schaffer Inc

Lab Sample ID: 400-221858-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	583059	06/28/22 18:04	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	583148	06/29/22 13:01	ANE	TAL PEN
Total/NA	Analysis	SM 9222D		1			582737		DVN	TAL PEN
							(Start)	06/23/22 14:26		
							(End)	06/24/22 16:18		
Total/NA	Analysis	SM 9223		1			582535	06/22/22 16:10	DVN	TAL PEN

Client Sample ID: UT TO THREE MILE CREEK

Date Collected: 06/22/22 10:06 Date Received: 06/22/22 15:45 Lab Sample ID: 400-221858-2

Lab Sample ID: 400-221858-3

Lab Sample ID: 400-221858-4

Matrix: Water

Matrix: Water

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	583059	06/28/22 18:13	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	583148	06/29/22 13:04	ANE	TAL PEN
Total/NA	Analysis	SM 9222D		1			582737		DVN	TAL PEN
							(Start)	06/23/22 14:26		
							(End)	06/24/22 16:18		
Total/NA	Analysis	SM 9223		1			582535	06/22/22 16:10	DVN	TAL PEN

Client Sample ID: THREE MILE CREEK

Date Collected: 06/22/22 10:40

Date Received: 06/22/22 15:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	405.1		1	300 mL	300 mL	582664		DVN	TAL PEN
							(Start)	06/22/22 18:01		
							(End)	06/27/22 17:11		
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	582664		DVN	TAL PEN
							(Start)	06/22/22 18:01		
							(End)	06/27/22 17:11		
Total/NA	Analysis	Enterolert		1			582974	06/22/22 17:09	DVN	TAL PEN

Client Sample ID: BOLTON BRANCH (EAST)

Date Collected: 06/22/22 11:17

Date Received: 06/22/22 15:45

Prep Type Total/NA	Batch Type Analysis	Batch Method SM 9222D	Run	Pactor 1	Initial Amount	Final Amount	Batch Number 582737	Prepared or Analyzed	Analyst DVN	Lab TAL PEN
							(Start)	06/23/22 14:26		
							(End)	06/24/22 16:18		
Total/NA	Analysis	SM 9223		1			582535	06/22/22 16:10	DVN	TAL PEN

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Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: Method Blank

Date Collected: N/A

Lab Sample ID: MB 400-582535/1

Matrix: Water

Matrix: Water

Date Received: N/A

Client: Neel-Schaffer Inc

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	SM 9223		1			582535	06/22/22 16:10	DVN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A Date Received: N/A

Lab Sample ID: MB 400-582737/1

Batch Prepared Number or Analyzed Analyst Lab

Batch Batch Dil Initial Final **Prep Type** Type Method Run Factor Amount Amount Total/NA Analysis SM 9222D 582737 DVN TAL PEN (Start) 06/23/22 14:26 (End) 06/24/22 16:18

Client Sample ID: Method Blank

Date Collected: N/A

Lab Sample ID: MB 400-582974/1

Matrix: Water

Date Received: N/A

Batch Batch Dil Initial Final Batch **Prepared** or Analyzed Method Number **Prep Type** Type Run **Factor Amount Amount** Analyst Lab 582974 Total/NA Analysis Enterolert 06/22/22 16:15 DVN TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Lab Sample ID: MB 400-583059/1-A

Matrix: Water

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	583059	06/28/22 18:04	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	583148	06/29/22 12:38	ANE	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Date Received: N/A

Lab Sample ID: USB 400-582664/1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	582664		DVN	TAL PEN
							(Start)	06/22/22 18:23		
							(End)	06/27/22 17:11		

Client Sample ID: Lab Control Sample

Date Collected: N/A

Lab Sample ID: LCS 400-582664/2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM5210B CBOD		1	1 mL	1 mL	582664	Ol Alluly20u	DVN	TAL PEN
1010,,,,,,	7 ti.idi.y 0.0	002.02.02						06/22/22 18:23		.,
							(End)	06/27/22 17:11		

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Lab Chronicle

Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-582737/2

Matrix: Water

Matrix: Water

TAL PEN

Matrix: Water

Date Collected: N/A Date Received: N/A

Batch Dil Initial Batch Batch Final Prepared Method **Prep Type** Type Run **Factor Amount Amount** Number or Analyzed **Analyst** Lab Total/NA SM 9222D 582737 DVN TAL PEN Analysis (Start) 06/23/22 14:26

Initial

Amount

25 mL

10 mL

Dil

Factor

Run

(End) 06/24/22 16:18

583148

10 mL

Client Sample ID: Lab Control Sample

Date Collected: N/A

Batch

365.4

Method

365.2/365.3/365

Batch

Туре

Prep

Analysis

Date Received: N/A

Prep Type

Total/NA

Total/NA

Lab Sample ID: LCS 400-583059/2-A

Final Batch Prepared Amount Number or Analyzed Analyst Lab 583059 06/28/22 18:04 ANE 25 mL TAL PEN

06/29/22 12:39 ANE

Lab Sample ID: MRL 400-583148/2

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4		1	10 mL	10 mL	583148	06/29/22 12:32	ANE	TAL PEN

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Neel-Schaffer Inc

Project/Site: Mobile MS4 Impaired Stream Sampling

Method **Method Description** Protocol Laboratory TAL PEN 365.4 Phosphorus, Total EPA BOD, 5-Day 405.1 **MCAWW** TAL PEN SM5210B CBOD Carbonaceous BOD, 5 Day TAL PEN SM Enterolert Enterococcus by Enterolert (Quantitray) IDEXX TAL PEN SM 9222D Coliforms, Fecal (Membrane Filter) SM TAL PEN SM 9223 Coliforms, Total, and E.Coli (Colilert - Quanti Tray) SMTAL PEN 365.2/365.3/365 Phosphorus, Total MCAWW TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

IDEXX = IDEXX Laboratories

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Job ID: 400-221858-1

Accreditation/Certification Summary

Client: Neel-Schaffer Inc Job ID: 400-221858-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

Environment Testing TestAmerica

💸 eurofins

Chain of Custody Record

Eurofins TestAmerica, Pensacola

3355 McLemore Drive

Pensacola, FL 32514 Phone (850) 474-1001 Fax (850) 478-2671

M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2SO4
T - TSP Dodecahydrate
U - Acelone
V - MCAA Must set both BOD and CBOD Special Instructions/Note: Ver: 01/16/2019 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) COC No: 400-85109-31845.1 reservation Codes: A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - MahSO4
F - MoH
G - Amchlor
H - Ascorbic Acid Page: Page 1 of 1 I - Ice J - Di Water K - EDTA L - EDA ė Archive For Total Number of containers 400-221858 COC lethod of Shipment Disposal By Lab **Analysis Requested** Special Instructions/QC Requirements: × × × × 165.4 - Phosphorus, Total E-Mail: taylor.bruzzio@testamericainc.com × 102'1 - NBOD** Return To Client × × WestoB_CBOD_ED - CBOD × × × × × 9223B - Coliforms, Total and E. Coli (QT) × Lab PM: Bruzzio, Taylor M × 9222D - Coliforms, Fecal × × × × × × Perform MS/MSD (Yes or No) Preservation Code: Water Water Water Water Water Water Water Water Matrix Acher Radiological (C=comp, G=grab) Sample Type Grab Grab Grab Grab Grab Grab Grab Grab 15727 11:37 9. U D A Po #: Purchase Order Requested Sample Time D'A'S Date: Unknown TAT Requested (days) **Date Requested:** Sample Date Project #: 40010963 SSOW#: Phone: Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) TEST AMERICA INC. 700 - MOBILE Custody Seal No. Mobile MS4 Impaired Stream Sampling Flammable brian.morgan@neel-schaffer.com Possible Hazard Identification Address: 210 25th Ave North Suite 800 2 Empty Kit Relinquished by oulmin Springs Branch JT to Three Mile Creek Client Information Sample Identification Seals Intact: Bolton Branch (West) Bolton Branch (East) ∆ Yes ∆ No Halls Mill Creek #2 251-471-2000(Tel) Halls Mill Creek #1 Neel-Schaffer, Inc hree Mile Creek Brian Morgan Moore Creek elinquished by: elinquished by: State, Zip: TN, 37203 Nashville

Client: Neel-Schaffer Inc Job Number: 400-221858-1

Login Number: 221858 List Source: Eurofins Pensacola

List Number: 1

Creator: DeKlerk, Michaela

Creator. Dertierk, michaela		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Pensacola



Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-221936-1

Client Project/Site: Mobile MS4 Impaired Stream Sampling

For:

Neel-Schaffer Inc PO BOX 22625 Jackson, Mississippi 39225

Attn: Brian Morgan

13/2

Authorized for release by: 6/30/2022 6:48:38 PM

Taylor Bruzzio, Project Manager I (850)471-6226

Taylor.Bruzzio@et.eurofinsus.com

LINKS



Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-221936-1

Comments

No additional comments.

Receipt

The samples were received on 6/23/2022 2:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2° C.

General Chemistry

Method SM 9223: The following samples were analyzed outside of analytical holding time due to analyst error: HALLS MILL CREEK #1 (400-221936-1), HALLS MILL CREEK #2 (400-221936-2), MOORE CREEK (400-221936-3) and BOLTON BRANCH (WEST) (400-221936-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221936-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	Method	Prep Type
Coliform, Fecal	100		1.0	1.0	CFU/100mL	1	SM 9222D	Total/NA
Escherichia coli	130	Н	1.0	1.0	MPN/100mL	1	SM 9223	Total/NA
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL	1	SM 9223	Total/NA

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-221936-2	
-----------------------------	--

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D N	Method	Prep Type
Coliform, Fecal	250		1.0	1.0	CFU/100mL	1	_ 5	SM 9222D	Total/NA
Escherichia coli	150	Н	1.0	1.0	MPN/100mL	1	5	SM 9223	Total/NA
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL	1	5	SM 9223	Total/NA

Client Sample ID: MOORE CREEK

Lah	Sample	ID: 400-221936-3
	Oumpic	ID. TOO LE 1000 0

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	170		1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	180	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221936-4

Analyte	Result Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	48	1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	45 H	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400 H	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

6/30/2022

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Sample Summary

Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-221936-1	HALLS MILL CREEK #1	Water	06/23/22 10:19	06/23/22 14:40
400-221936-2	HALLS MILL CREEK #2	Water	06/23/22 10:56	06/23/22 14:40
400-221936-3	MOORE CREEK	Water	06/23/22 09:22	06/23/22 14:40
400-221936-4	BOLTON BRANCH (WEST)	Water	06/23/22 09:39	06/23/22 14:40

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Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1 Lab Sample ID: 400-221936-1

Date Collected: 06/23/22 10:19

Matrix: Water

Date Received: 06/23/22 14:40

General Chemistry Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.0	<u> </u>	5.0	5.0	mg/L		•	06/24/22 14:24	1
- -									
Method: SM 9222D - Colife Analyte	orms, Fecal (Men Result (r) RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)										
	Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Escherichia coli	130	H	1.0	1.0	MPN/100mL	_		06/23/22 22:55	1
	Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/23/22 22:55	1

Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #2 Lab Sample ID: 400-221936-2

Date Collected: 06/23/22 10:56
Date Received: 06/23/22 14:40

Matrix: Water

General Chemistry

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.0	5.0	5.0 mg/L			06/24/22 14:24	1

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	250		1.0	1.0	CFU/100mL			06/23/22 17:14	1

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Wethou. SW 3223 - Comornis,	otai, and i	con (con	ieit - Quanti	iiay,					
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	150	H	1.0	1.0	MPN/100mL	_		06/23/22 22:55	1
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL			06/23/22 22:55	1

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Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: MOORE CREEK

Date Collected: 06/23/22 09:22

Date Received: 06/23/22 14:40

Lab Sample ID: 400-221936-3

Matrix: Water

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)										
	Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Coliform, Fecal	170		1.0	1.0	CFU/100mL	_		06/23/22 17:14	1

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)										
	Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Escherichia coli	180	H	1.0	1.0	MPN/100mL	_		06/23/22 22:55	1
	Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/23/22 22:55	1

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Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221936-4 **Matrix: Water**

Date Collected: 06/23/22 09:39 Date Received: 06/23/22 14:40

Method: SM 9222D - Coliforms, Fecal (Membrane Filter) Analyte Result Qualifier RLRL Unit Prepared Analyzed Dil Fac Coliform, Fecal 48 1.0 1.0 CFU/100mL 06/23/22 17:14

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)										
	Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Escherichia coli	45	H	1.0	1.0	MPN/100mL	_		06/23/22 22:55	1
	Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL			06/23/22 22:55	1

Definitions/Glossary

Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Qualifiers

Biology

Qualifier Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

General Chemistry

Analysis Batch: 582616

Lab Sample ID 400-221936-1	Client Sample ID HALLS MILL CREEK #1	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
400-221936-2	HALLS MILL CREEK #2	Total/NA	Water	SM 2540D	
MB 400-582616/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 400-582616/2	Lab Control Sample	Total/NA	Water	SM 2540D	
400-221936-1 DU	HALLS MILL CREEK #1	Total/NA	Water	SM 2540D	

Biology

Analysis Batch: 582737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221936-1	HALLS MILL CREEK #1	Total/NA	Water	SM 9222D	
400-221936-2	HALLS MILL CREEK #2	Total/NA	Water	SM 9222D	
400-221936-3	MOORE CREEK	Total/NA	Water	SM 9222D	
400-221936-4	BOLTON BRANCH (WEST)	Total/NA	Water	SM 9222D	
MB 400-582737/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-582737/2	Lab Control Sample	Total/NA	Water	SM 9222D	

Analysis Batch: 583000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221936-1	HALLS MILL CREEK #1	Total/NA	Water	SM 9223	
400-221936-2	HALLS MILL CREEK #2	Total/NA	Water	SM 9223	
400-221936-3	MOORE CREEK	Total/NA	Water	SM 9223	
400-221936-4	BOLTON BRANCH (WEST)	Total/NA	Water	SM 9223	
MB 400-583000/1	Method Blank	Total/NA	Water	SM 9223	

Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 400-582616/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 582616

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.50 06/24/22 14:24 **Total Suspended Solids** < 0.50 0.50 mg/L

Lab Sample ID: LCS 400-582616/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 582616

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Analyte Unit 280 **Total Suspended Solids** 319 mg/L 114 82 - 118

Lab Sample ID: 400-221936-1 DU Client Sample ID: HALLS MILL CREEK #1 **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 582616

Sample Sample DU DU RPD Result Qualifier Result Qualifier RPD Limit Analyte Unit Total Suspended Solids <5.0 <5.0 NC 5 mg/L

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-582737/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 582737

MB MB

Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac Coliform, Fecal <1.0 1.0 1.0 CFU/100mL 06/23/22 14:26

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 400-583000/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583000

MB MB

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac Escherichia coli <1.0 1.0 1.0 MPN/100mL 06/23/22 22:55 Coliform, Total <1.0 1.0 1.0 MPN/100mL 06/23/22 22:55

6/30/2022

Prep Type: Total/NA

Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Date Collected: 06/23/22 10:19

Date Received: 06/23/22 14:40

Client: Neel-Schaffer Inc

Matrix: Water

Lab Sample ID: 400-221936-1

Lab Sample ID: 400-221936-2

Lab Sample ID: 400-221936-3

Lab Sample ID: 400-221936-4

Lab Sample ID: MB 400-582616/1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	100 mL	100 mL	582616	06/24/22 14:24	VB	TAL PEN
Total/NA	Analysis	SM 9222D		1			582737		DVN	TAL PEN
							(Start)	06/23/22 17:14		
							(End)	06/24/22 16:18		
Total/NA	Analysis	SM 9223		1			583000	06/23/22 22:55	DEK	TAL PEN

Client Sample ID: HALLS MILL CREEK #2

Date Collected: 06/23/22 10:56

Date Received: 06/23/22 14:40

Prep Type Total/NA	Batch Type Analysis	Batch Method SM 2540D	Run	Factor	Initial Amount 100 mL	Final Amount 100 mL	Batch Number 582616	Prepared or Analyzed 06/24/22 14:24	Analyst	Lab TAL PEN
Total/NA	Analysis	SM 9222D		1			582737	00/00/00 47:44	DVN	TAL PEN
							(Start) (End)	06/23/22 17:14 06/24/22 16:18		
Total/NA	Analysis	SM 9223		1			583000	06/23/22 22:55	DEK	TAL PEN

Client Sample ID: MOORE CREEK

Date Collected: 06/23/22 09:22

Date Received: 06/23/22 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582737		DVN	TAL PEN
							(Start)	06/23/22 17:14		
							(End)	06/24/22 16:18		
Total/NA	Analysis	SM 9223		1			583000	06/23/22 22:55	DEK	TAL PEN

Client Sample ID: BOLTON BRANCH (WEST)

Date Collected: 06/23/22 09:39

Date Received: 06/23/22 14:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582737		DVN	TAL PEN
							(Start)	06/23/22 17:14		
							(End)	06/24/22 16:18		
Total/NA	Analysis	SM 9223		1			583000	06/23/22 22:55	DEK	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Γ		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Pro	ер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Tot	tal/NA	Analysis	SM 2540D		1	1000 mL	100 mL	582616	06/24/22 14:24	VB	TAL PEN

Page 13 of 18

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Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: Method Blank

Date Collected: N/A

Lab Sample ID: MB 400-582737/1

Matrix: Water

Date Received: N/A

Client: Neel-Schaffer Inc

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582737		DVN	TAL PEN
							(Start)	06/23/22 14:26		
							/CI\	00/04/00 40:40		

(End) 06/24/22 16:18

Client Sample ID: Method Blank

Date Collected: N/A Date Received: N/A

Lab Sample ID: MB 400-583000/1 **Matrix: Water**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9223		1			583000	06/23/22 22:55	DEK	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 400-582616/2

Matrix: Water

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
F	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Lī	Total/NA	Analysis	SM 2540D		1	100 mL	100 mL	582616	06/24/22 14:24	VB	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 400-582737/2

Lab Sample ID: 400-221936-1 DU

Matrix: Water

Matrix: Water

Prep Type Total/NA	Batch Type Analysis	Batch Method SM 9222D	Run	Factor 1	Initial Amount	Final Amount	Batch Number 582737	Prepared or Analyzed	Analyst DVN	Lab TAL PEN
iota, iv	, maryore	CIII GEEED					(Start)	06/23/22 14:26 06/24/22 16:18		17.2.1.2.1

Client Sample ID: HALLS MILL CREEK #1

Date Collected: 06/23/22 10:19

Date Received: 06/23/22 14:40

í	_										
١		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	SM 2540D		1	100 mL	100 mL	582616	06/24/22 14:24	VB	TAL PEN

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Method Summary

Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PEN
SM 9222D	Coliforms, Fecal (Membrane Filter)	SM	TAL PEN
SM 9223	Coliforms, Total, and E.Coli (Colilert - Quanti Tray)	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Accreditation/Certification Summary

Client: Neel-Schaffer Inc Job ID: 400-221936-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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Chain of Custody Record

Eurofins TestAmerica, Pensacola

Pensacola, FL 32514 Phone (850) 474-1001 Fax (850) 478-2671

3355 McLemore Drive

T - TSP Dodecahydrate *Must set both BOD and CBOD Special Instructions/Note: W - pH 4-5 Z - other (specify) N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 Sompany Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon 400-85109-31845.1 Preservation Codes: H - Ascorbic Acid A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor Page: Page 1 of 1 400-221936 COC I - Ice J - DI Water K - EDTA L - EDA Total Number of containers lethod of Shipment **Analysis Requested** Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: × × SST - G0492 × × 65.4 - Phosphorus, Total Lab PM:
Bruzzio, Taylor M
E-Mail:
taylor.bruzzio@testamericainc.com × × ENTEROLERT - Enterococci × Received by: Received by: 3223B - Coliforms, Total and E. Coli (QT) × × × × × × × × × × × erform MS/MSD (Yes or No) Time: (W=water, S=solid, O=waste/oil, Preservation Code: Water Water Matrix Water Water Water Water Water Water Type (C=comp, G=grab) Radiological Maria Parker Sample Grab Grab Grab Grab Grab Grab Grab Grab 10,19 A Po #: Purchase Order Requested 10. Sh. 405. P Sample Time <u>ر</u> د 1 Unknown Date 1312 TAT Requested (days): Due Date Requested: ne. 25.72 00 Sample Date Project #: 40010963 13 S Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) TEST AMERICA INC. Custody Seals Intact: Custody Seal No.: 700 - MOBILE Mobile MS4 Impaired Stream Sampling | | Flammable brian.morgan@neel-schaffer.com Possible Hazard Identification Address: 210 25th Ave North Suite 800 Empty Kit Relinquished by: oulmin Springs Branch Client Information JT to Three Mile Creek Sample Identification Bolton Branch (West) Bolton Branch (East) Halls Mill Creek #2 251-471-2000(Tel) Halls Mill Creek #1 Non-Hazard Neel-Schaffer, Inc **Three Mile Creek** Brian Morgan elinquished by: rquished by: elinquished by: Moore Creek State, Zip: TN, 37203 Project Name Nashville

Login Sample Receipt Checklist

Client: Neel-Schaffer Inc Job Number: 400-221936-1

Login Number: 221936 List Source: Eurofins Pensacola

List Number: 1

Creator: Whitley, Adrian

Creator. Williey, Aurian		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-221675-1

Client Project/Site: Mobile MS4 Impaired Stream Sampling

For:

Neel-Schaffer Inc PO BOX 22625 Jackson, Mississippi 39225

Attn: Brian Morgan

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Authorized for release by: 7/1/2022 4:31:46 PM

Taylor Bruzzio, Project Manager I (850)471-6226

Taylor.Bruzzio@et.eurofinsus.com

····· Links ·····

Review your project results through

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-221675-1

Comments

No additional comments.

Receipt

The samples were received on 6/17/2022 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2° C.

General Chemistry

Method SM 9223: The following samples were analyzed outside of analytical holding time due to analyst error: TOULMIN SPRINGS BRANCH (400-221675-1), UT TO THREE MILE CREEK (400-221675-2) and BOLTON BRANCH (EAST) (400-221675-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221675-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	0.081	J	0.10	0.049	mg/L	1	_	365.4	Total/NA
Coliform, Fecal	440		1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	86	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221675-2

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Phosphorus, Total	0.10	0.10	0.049	mg/L	1	365.4	Total/NA
Coliform, Fecal	940	1.0	1.0	CFU/100mL	1	SM 9222D	Total/NA
Escherichia coli	330 H	1.0	1.0	MPN/100mL	1	SM 9223	Total/NA
Coliform, Total	>2400 H	1.0	1.0	MPN/100mL	1	SM 9223	Total/NA

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221675-3

An	alyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Nit	rogenous Biochemical Oxygen	9.1		2.0	2.0	mg/L	1	_	405.1	Total/NA
De	mand									
En	terococci	4.1		1.0	1.0	MPN/100mL	1		Enterolert	Total/NA

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221675-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Coliform, Fecal	980	1.0	1.0 CFU/10	0mL 1	SM 9222D	Total/NA
Escherichia coli	84 H	1.0	1.0 MPN/10	0mL 1	SM 9223	Total/NA
Coliform, Total	>2400 H	1.0	1.0 MPN/10	0mL 1	SM 9223	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

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Sample Summary

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-221675-1	TOULMIN SPRINGS BRANCH	Water	06/17/22 09:31	06/17/22 16:30
400-221675-2	UT TO THREE MILE CREEK	Water	06/17/22 10:06	06/17/22 16:30
400-221675-3	THREE MILE CREEK	Water	06/17/22 10:37	06/17/22 16:30
400-221675-4	BOLTON BRANCH (EAST)	Water	06/17/22 11:10	06/17/22 16:30

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Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH Lab Sample ID: 400-221675-1

Date Collected: 06/17/22 09:31 Matrix: Water

Date Received: 06/17/22 16:30

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.081	J	0.10	0.049	mg/L	_	06/22/22 15:56	06/24/22 12:27	1
Method: SM 9222D - Colife	orms, Fecal (Me	embrane Filt	er)						
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	440		1.0	1.0	CFU/100mL	_		06/17/22 17:26	1

Method: SM 9223 - Coliforms,	Total, and I	E.Coli (Colile	rt - Quanti 1	Γray)			D Prepared Analyzed		
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	86	H	1.0	1.0	MPN/100mL	_		06/17/22 19:19	1
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL			06/17/22 19:19	1

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Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: UT TO THREE MILE CREEK

Date Collected: 06/17/22 10:06 Date Received: 06/17/22 16:30 Lab Sample ID: 400-221675-2

Matrix: Water

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.10		0.10	0.049		=		06/28/22 15:05	1
Method: SM 9222D - Coliform	s, Fecal (Me	mbrane Filt	er)						
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	940		1.0	1.0	CFU/100mL	_		06/17/22 17:26	1
Analyte	Result		RL _			<u>D</u>	Prepared		_[

Method: SM 9223 - Coliforms,	Total, and I	E.Coli (Colile	ert - Quanti Ti	ray)					
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	330	H	1.0	1.0	MPN/100mL	_		06/17/22 19:19	1
Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/17/22 19:19	1

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Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: THREE MILE CREEK Lab Sample ID: 400-221675-3

Date Collected: 06/17/22 10:37

Matrix: Water Date Received: 06/17/22 16:30

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			06/17/22 19:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogenous Biochemical Oxygen Demand	9.1		2.0	2.0	mg/L			06/17/22 19:23	1

Method: Enterolert - Enteroco	ccus by Enterolert (Qua	ntitray)					
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Enterococci	41	1.0	1.0 MPN/100ml			06/17/22 17:13	

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221675-4

Date Collected: 06/17/22 11:10

Matrix: Water

Date Received: 06/17/22 16:30

Method: SM 9222D - Coliforms	s, Fecal (Men	nbrane Filte	er)						
Analyte	Result (Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	980		1.0	1.0	CFU/100mL			06/17/22 17:26	1

Method: SM 9223 - Coliforms,	Total, and I	E.Coli (Colile	ert - Quanti 1	Ггау)					
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	84	Н	1.0	1.0	MPN/100mL	_		06/17/22 19:19	1
Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/17/22 19:19	1

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Definitions/Glossary

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Qualifiers

General Chemistry

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Biology

Qualifier **Qualifier Description**

Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points **RPD**

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Eurofins Pensacola

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7/1/2022

QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

General Chemistry

Pre	n Ba	atch:	582	333
	_			

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221675-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	365.2/365.3/365	
MB 400-582333/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 400-582333/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 582339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221675-3	THREE MILE CREEK	Total/NA	Water	405.1	
400-221675-3	THREE MILE CREEK	Total/NA	Water	SM5210B CBOD	
USB 400-582339/1	Method Blank	Total/NA	Water	SM5210B CBOD	
LCS 400-582339/2	Lab Control Sample	Total/NA	Water	SM5210B CBOD	
400-221675-B-3 DU	400-221675-B-3 DU	Total/NA	Water	405.1	
400-221675-B-3 DU	THREE MILE CREEK	Total/NA	Water	SM5210B CBOD	

Analysis Batch: 582593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-582333/1-A	Method Blank	Total/NA	Water	365.4	582333
LCS 400-582333/2-A	Lab Control Sample	Total/NA	Water	365.4	582333
MRL 400-582593/10	Lab Control Sample	Total/NA	Water	365.4	

Analysis Batch: 582595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221675-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	365.4	582333

Prep Batch: 582879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221675-2	UT TO THREE MILE CREEK	Total/NA	Water	365.2/365.3/365	
MB 400-582879/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 400-582879/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 583016

Lab Sample ID 400-221675-2	Client Sample ID UT TO THREE MILE CREEK	Prep Type Total/NA	Matrix Water	Method 365.4	Prep Batch 582879
MB 400-582879/1-A	Method Blank	Total/NA	Water	365.4	582879
LCS 400-582879/2-A	Lab Control Sample	Total/NA	Water	365.4	582879
MRL 400-583016/10	Lab Control Sample	Total/NA	Water	365.4	

Biology

Analysis Batch: 582253

Lab Sample ID 400-221675-1	Client Sample ID TOULMIN SPRINGS BRANCH	Prep Type Total/NA	Matrix Water	Method SM 9223	Prep Batch
400-221675-2	UT TO THREE MILE CREEK	Total/NA	Water	SM 9223	
400-221675-4	BOLTON BRANCH (EAST)	Total/NA	Water	SM 9223	
MB 400-582253/1	Method Blank	Total/NA	Water	SM 9223	

Analysis Batch: 582264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221675-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	SM 9222D	
400-221675-2	UT TO THREE MILE CREEK	Total/NA	Water	SM 9222D	
400-221675-4	BOLTON BRANCH (EAST)	Total/NA	Water	SM 9222D	
MB 400-582264/1	Method Blank	Total/NA	Water	SM 9222D	

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QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Biology (Continued)

Analysis Batch: 582264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-582264/2	Lab Control Sample	Total/NA	Water	SM 9222D	
400-221675-2 DU	UT TO THREE MILE CREEK	Total/NA	Water	SM 9222D	

Analysis Batch: 582971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221675-3	THREE MILE CREEK	Total/NA	Water	Enterolert	
MB 400-582971/1	Method Blank	Total/NA	Water	Enterolert	

Client: Neel-Schaffer Inc. Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-582333/1-A

Matrix: Water

Analysis Batch: 582593

MB MB

MB MB

USB USB Result Qualifier

<2.0

Result Qualifier

Result Qualifier RL **MDL** Unit Analyzed Analyte Prepared 0.10 06/22/22 15:56 06/24/22 11:49 Phosphorus, Total < 0.049 0.049 mg/L

Spike

Added

2.00

Spike

Added

0.100

Spike

Added

2.00

Spike

Added

0.100

LCS LCS

MRL MRL

0.131

RL

0.10

Result Qualifier

MDL Unit

0.049 ma/L

LCS LCS

MRL MRL

0.124

Result Qualifier

MDL Unit

2.0 mg/L

2.05

Result Qualifier

2 15

Result Qualifier

Unit

mg/L

Unit

mg/L

Unit

mg/L

Unit

mg/L

D %Rec

D

124

Prepared

Lab Sample ID: LCS 400-582333/2-A

Matrix: Water

Analysis Batch: 582593

Analyte

Lab Sample ID: MRL 400-582593/10

Matrix: Water

Phosphorus, Total

Analysis Batch: 582593

Analyte

Lab Sample ID: MB 400-582879/1-A

Matrix: Water

Phosphorus, Total

Analysis Batch: 583016

Analyte

Phosphorus, Total < 0.049

Lab Sample ID: LCS 400-582879/2-A

Matrix: Water

Analysis Batch: 583016

Analyte

Phosphorus, Total

Lab Sample ID: MRL 400-583016/10

Matrix: Water

Analysis Batch: 583016

Analyte

Phosphorus, Total

Lab Sample ID: USB 400-582339/1

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Matrix: Water

Analysis Batch: 582339

Carbonaceous Biochemical Oxygen

Demand

Client Sample ID: Lab Control Sample

D %Rec

108

131

Prep Type: Total/NA **Prep Batch: 582333**

Prep Type: Total/NA Prep Batch: 582333

Dil Fac

Client Sample ID: Method Blank

%Rec

Limits 75 - 113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec

Limits %Rec

50 - 150

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 582879

Prepared Analyzed Dil Fac

06/27/22 17:45 06/28/22 14:54

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 582879

%Rec

Limits

%Rec 102

75 - 113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec

Limits

Client Sample ID: Method Blank

50 - 150

Prep Type: Total/NA

Analyzed Dil Fac 06/18/22 22:23

Eurofins Pensacola

RL

2.0

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day (Continued)

Lab Sample ID: LCS 400-582339/2 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 582339 Spike LCS LCS

%Rec Added Result Qualifier Limits Analyte Unit %Rec Carbonaceous Biochemical 198 222 mg/L 112 85 - 115

Oxygen Demand

Client Sample ID: THREE MILE CREEK Lab Sample ID: 400-221675-B-3 DU Prep Type: Total/NA

Matrix: Water

Analysis Batch: 582339

Sample Sample DU DU RPD **Analyte** Result Qualifier Result Qualifier Unit D **RPD** Limit Carbonaceous Biochemical <2.0 2.04 mg/L 18 Oxygen Demand

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

Lab Sample ID: MB 400-582971/1 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 582971

MB MB Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac <1.0 1 0 1.0 MPN/100mL 06/17/22 17:13 Enterococci

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-582264/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 582264

MR MR **RL** Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Coliform, Fecal 1.0 1.0 CFU/100mL 06/17/22 17:26 <1.0

Lab Sample ID: 400-221675-2 DU Client Sample ID: UT TO THREE MILE CREEK **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 582264

Sample Sample DU DU **RPD** Analyte Result Qualifier Result Qualifier Unit ח **RPD** I imit Coliform, Fecal 940 1200 CFU/100mL 50

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 400-582253/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 582253

MB MB Dil Fac Result Qualifier RL **RL Unit** Analyte Prepared Analyzed 1.0 Escherichia coli <1.0 1.0 MPN/100mL 06/17/22 19:19 Coliform, Total <1.0 1.0 MPN/100mL 06/17/22 19:19

Eurofins Pensacola

7/1/2022

Prep Type: Total/NA

Prep Type: Total/NA

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221675-1 **Matrix: Water**

Date Collected: 06/17/22 09:31 Date Received: 06/17/22 16:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	582333	06/22/22 15:56	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	582595	06/24/22 12:27	ANE	TAL PEN
Total/NA	Analysis	SM 9222D		1			582264		DEK	TAL PEN
							(Start)	06/17/22 17:26		
							(End)	06/18/22 20:20		
Total/NA	Analysis	SM 9223		1			582253	06/17/22 19:19	DVN	TAL PEN

Client Sample ID: UT TO THREE MILE CREEK

Date Collected: 06/17/22 10:06 Date Received: 06/17/22 16:30

Batch Batch Dil Initial Final Batch Prepared Method Factor **Amount** Amount **Prep Type** Type Run Number or Analyzed Analyst Lab Total/NA Prep 365.2/365.3/365 25 mL 25 mL 582879 06/27/22 17:45 ANE TAL PEN Total/NA 365.4 10 mL 10 mL 583016 06/28/22 15:05 ANE TAL PEN Analysis 1 Total/NA Analysis SM 9222D 582264 DEK TAL PEN (Start) 06/17/22 17:26 (End) 06/18/22 20:20 582253 06/17/22 19:19 DVN Total/NA Analysis TAL PEN SM 9223

Client Sample ID: THREE MILE CREEK

Date Collected: 06/17/22 10:37

Date Received: 06/17/22 16:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	405.1		1	300 mL	300 mL	,	06/17/22 19:23 06/23/22 16:37	DVN	TAL PEN
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	,	06/17/22 19:23 06/23/22 16:37	DVN	TAL PEN
Total/NA	Analysis	Enterolert		1			582971	06/17/22 17:13	DVN	TAL PEN

Client Sample ID: BOLTON BRANCH (EAST)

Date Collected: 06/17/22 11:10

Date Received: 06/17/22 16:30

Prep Type Total/NA	Batch Type Analysis	Batch Method SM 9222D	Run	Factor 1	Initial Amount	Final Amount	Batch Number 582264	Prepared or Analyzed	Analyst DEK	Lab TAL PEN
	·						(Start)	06/17/22 17:26		
							(End)	06/18/22 20:20		
Total/NA	Analysis	SM 9223		1			582253	06/17/22 19:19	DVN	TAL PEN

Lab Sample ID: 400-221675-2

Lab Sample ID: 400-221675-3

Lab Sample ID: 400-221675-4

10

Matrix: Water

Matrix: Water

Matrix: Water

10

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: Method Blank

Date Collected: N/A

Lab Sample ID: MB 400-582253/1

Matrix: Water

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9223		1			582253	06/17/22 19:19	DVN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Lab Sample ID: MB 400-582264/1

Matrix: Water

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582264		DEK	TAL PEN
							(Start)	06/17/22 17:26		
							(End)	06/18/22 20:20		

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582333/1-A

Matrix: Water

Date Collected: N/A Date Received: N/A

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Number or Analyzed Type Run **Factor** Amount Analyst Lab 582333 Total/NA Prep 365.2/365.3/365 25 mL 25 mL 06/22/22 15:56 ANE TAL PEN Total/NA Analysis 365.4 10 ml 10 ml 582593 06/24/22 11:49 ANE TAL PEN 1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582879/1-A

Matrix: Water

Date Collected: N/A Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	582879	06/27/22 17:45	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	583016	06/28/22 14:54	ANE	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582971/1 Date Collected: N/A **Matrix: Water**

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Enterolert		1			582971	06/17/22 17:13	DVN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: USB 400-582339/1 Date Collected: N/A **Matrix: Water**

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	582339		DVN	TAL PEN
							(Start)	06/18/22 22:23		
							(End)	06/23/22 16:37		

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Client Sample ID: Lab Control Sample

Date Collected: N/A Date Received: N/A

Client: Neel-Schaffer Inc

Lab Sample ID: LCS 400-582264/2

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			582264		DEK	TAL PEN
							(Start)	06/17/22 17:26		
							(End)	06/19/22 20:20		

(End) 06/18/22 20:20

Client Sample ID: Lab Control Sample

Date Collected: N/A Date Received: N/A

Lab Sample ID: LCS 400-582333/2-A

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	582333	06/22/22 15:56	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	582593	06/24/22 11:50	ANE	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A Date Received: N/A

Total/NA

Lab Sample ID: LCS 400-582339/2 **Matrix: Water**

Batch Dil Initial Batch Batch Final Prepared Prep Type Method Factor Amount Amount Number or Analyzed Analyst Type Run Lab TAL PEN

1 mL

1 mL

582339

(Start) 06/18/22 22:23 (End) 06/23/22 16:37

Client Sample ID: Lab Control Sample

SM5210B CBOD

Analysis

Date Collected: N/A Date Received: N/A

Lab Sample ID: LCS 400-582879/2-A

Matrix: Water

DVN

_	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	582879	06/27/22 17:45	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	583016	06/28/22 14:56	ANE	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Date Received: N/A

Lab Sample ID: MRL 400-582593/10

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4		1	10 mL	10 mL	582593	06/24/22 11:09	ANE	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A

Lab Sample ID: MRL 400-583016/10

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4		1	10 mL	10 mL	583016	06/28/22 14:49	ANE	TAL PEN

Lab Chronicle

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221675-2 DU

Date Collected: 06/17/22 10:06 Date Received: 06/17/22 16:30

Matrix: Water

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Method **Factor** Type Run **Amount Amount** Number or Analyzed Analyst Lab Total/NA Analysis SM 9222D 582264 DEK TAL PEN (Start) 06/17/22 17:26

(End) 06/18/22 20:20

Client Sample ID: 400-221675-B-3 DU

Lab Sample ID: 400-221675-B-3 DU

Date Collected: 06/17/22 10:37 **Matrix: Water**

Date Received: 06/17/22 16:30

Prep Type Total/NA	Batch Type Analysis	Batch Method 405.1	Run	Pactor 1	Amount 300 mL	Amount 300 mL	Batch Number 582339 (Start) (End)	Prepared or Analyzed 06/17/22 19:23 06/23/22 16:37	Analyst DVN	Lab TAL PEN
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	582339 (Start) (End)	06/17/22 19:23 06/23/22 16:37	DVN	TAL PEN

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola

7/1/2022

Method Summary

Client: Neel-Schaffer Inc

Project/Site: Mobile MS4 Impaired Stream Sampling

Method **Method Description** Protocol Laboratory TAL PEN 365.4 Phosphorus, Total EPA BOD, 5-Day 405.1 **MCAWW** TAL PEN SM5210B CBOD Carbonaceous BOD, 5 Day TAL PEN SM Enterolert Enterococcus by Enterolert (Quantitray) IDEXX TAL PEN SM 9222D Coliforms, Fecal (Membrane Filter) SM TAL PEN SM 9223 Coliforms, Total, and E.Coli (Colilert - Quanti Tray) SM TAL PEN 365.2/365.3/365 Phosphorus, Total MCAWW TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

IDEXX = IDEXX Laboratories

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola

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Job ID: 400-221675-1

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Accreditation/Certification Summary

Client: Neel-Schaffer Inc Job ID: 400-221675-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

Eurofins Pensacola

7/1/2022

Ver: 01/16/2019

ooler Temperature(s) °C and Other Remarks:

13

Chain of Custody Record

Eurofins TestAmerica, Pensacola

3355 McLemore Drive

Pensacola, FL 32514 Phone (850) 474-1001 Fax (850) 478-2671

	Sampler:	100	ر خ د	Lab PM: Bruzzi	Lab PM: Bruzzio, Taylor M	2				Carrier Tracking No(s):	ing No(s)		0 4	COC No: 400-85109-31845 1	845 1
Client Contact:	Dhone:	5	1	E-Mail:	, ay	2							Ja	Page:	
Ollen Conlad. Brian Morgan	<u>j</u>	\		taylor	c-man. taylor.bruzzio@testamericainc.com	testam	ericainc	com						Page 1 of 1	
Company: Neel-Schaffer, Inc							Ā	Analysis	s Red	Requested			7	Job #:	
Address: 210 25th Ave North Suite 800	Due Date Requested:	.;pa												Preservation Codes:	odes:
City: Nashville	TAT Requested (days):	ays):												A - HUL B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: TN, 37203														O - Nitric Acid	
Phone: 251-471-2000(Tel)	PO#: Purchase Order Requested	r Requestec			lo	(др) і					***************************************			G - Amchlor H - Ascorbic Acid	
Email: brian.morgan@neel-schaffer.com	:# OM													I - Ice J - DI Water K - FOTA	U - Acetone V - MCAA W - nH 4-5
Project Name: Mobile MS4 Impaired Stream Sampling	Project #: 40010963				10 89	pus lei		1040						L-EDA	Z - other (specify)
	SSOW#:				Y) ası	oT ,err			ı 'enıc					Other:	
TEST AMERICA INC. 700 - MOBILE	Sample Date	Sample	Sample Type (C=comp,	Matrix (w=water, S=solid, O=waste/oli,	Field Filtered Perform MS/W S222D - Coliforn	1223B - Colifori	SM5210B_CBO	105.1 - NBOD***	165.4 - Phospho				redmuN lstoT	Special	Special Instructions/Note:
	\backslash	X	- 0		Ϋ́	· œ	-	100	+-				X	-//	
Toulmin Springs Branch	57175	47.5	Grab	Water	×	×		Ĥ	×				*	Must set bo	*Must set both BOD and CBOD
UT to Three Mile Creek	12/41/13	390 C	Grab	Water	×	×		^	×		_	'			
Three Mile Creek	27219	PT 8 01	Grab	Water			×	×		<u>. 22</u>	¥				
Bolton Branch (East)	11/19/22	11 13%	Grab	Water	×	×				200					
Halls Mill Creek #1		3	Grab	Water	×	×			×		Å				
Halls Mill Creek #2			Grab	Water	×	×			×	400-2	400-221675 COC				
Moore Creek			Grab	Water	×	×									
Bolton Branch (West)			Grab	Water	×	×									
Possible Hazard Identification Non-Hazard — Flammable — Skin Irritant — Pois	Poison B	имог	Radiological	,	Samp	le Dispo Return	le Disposal (A 1 Retum To Client	fee ma t	y be a	assessed if san Disposal By Lab	' sampl 'Lab	es are i	etained Iong] Archive For	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Retum To Client	1 month) Months
ested: I, II, III, IV, Other (specify))		Specia	I Instruc	Special Instructions/QC Requirements:	C Requ	iremer	ts:					
Empty Kit Relinquished by:		Date:			Time:					Metho	Method of Shipment:	nent:			
Relinquished by:	Date/Time:	uelt	4	Company	Re	Received by:		M		$\left\{\begin{array}{c} 1 \\ 1 \end{array}\right\}$	Date	Date(Time: 7-7)	7	1(34	Company
١		200	4		- 1	K		1			-		1		and the second

Custody Seal No∴

Login Sample Receipt Checklist

Client: Neel-Schaffer Inc Job Number: 400-221675-1

Login Number: 221675 List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-221998-1

Client Project/Site: Mobile MS4 Impaired Stream Sampling

For:

Neel-Schaffer Inc PO BOX 22625 Jackson, Mississippi 39225

Attn: Brian Morgan

1

Authorized for release by: 7/6/2022 4:37:29 PM

Taylor Bruzzio, Project Manager I (850)471-6226

Taylor.Bruzzio@et.eurofinsus.com

Links

Review your project results through

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-221998-1

Comments

No additional comments.

Receipt

The samples were received on 6/24/2022 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0° C.

General Chemistry

Methods 405.1, SM 5210B: The USB dilution water D.O. depletion was greater than 0.2 mg/L. The associated sample results in batch 400-582825 are qualified and reported. Actual method blank recovery was at 0.68 mg/L.

Method SM 9223: The following samples were analyzed outside of holding time due to analyst error: TOULMIN SPRINGS BRANCH (400-221998-1), UT TO THREE MILE CREEK (400-221998-2) and BOLTON BRANCH (EAST) (400-221998-4).

Method SM5210B CBOD: The USB dilution water D.O. depletion was greater than 0.2 mg/L. The associated sample results in batch 400-582826 are qualified and reported. Actual method blank recovery was at 0.88 mg/L.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221998-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	40		1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	49	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221998-2

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	0.21	0.10	0.049	mg/L	1	_	365.4	Total/NA
Coliform, Fecal	>2400	1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	>2400 H	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400 H	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221998-3

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Enterococci	100	1.0	1.0 MPN/100mL	1 Enterolert	Total/NA

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221998-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	150		1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	150	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-221998-1	TOULMIN SPRINGS BRANCH	Water	06/24/22 09:40	06/24/22 16:20
400-221998-2	UT TO THREE MILE CREEK	Water	06/24/22 10:13	06/24/22 16:20
400-221998-3	THREE MILE CREEK	Water	06/24/22 10:38	06/24/22 16:20
400-221998-4	BOLTON BRANCH (EAST)	Water	06/24/22 11:13	06/24/22 16:20

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Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221998-1

Date Collected: 06/24/22 09:40 **Matrix: Water**

Date Received: 06/24/22 16:20

Coliform, Fecal

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Phosphorus, Total	<0.049		0.10	0.049	mg/L		07/04/22 13:52	07/05/22 16:53	1	
Method: SM 9222D - Coliforms	s, Fecal (Me	mbrane Filter)								
Analyte	*	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	

1.0

1.0 CFU/100mL

Method: SM 9223 - Coliforms,	Total, and I	E.Coli (Colile	ert - Quanti 1	ray)					
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	49	H	1.0	1.0	MPN/100mL	_		06/24/22 19:19	1
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL			06/24/22 19:19	1

06/24/22 16:33

Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: UT TO THREE MILE CREEK

>2400 H

>2400 H

Date Collected: 06/24/22 10:13

Escherichia coli

Coliform, Total

Lab Sample ID: 400-221998-2

Matrix: Water Date Received: 06/24/22 16:20

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.21		0.10	0.049	mg/L	_	07/04/22 13:52	07/05/22 16:54	1
Method: SM 9222D - Coli	forms Fecal (Me	mbrane Filte	er)						
michica. Citi JEEED - Coll		TITIOTULE I IIL							
Analyte	*	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

1.0

1.0

1.0 MPN/100mL

1.0 MPN/100mL

7/6/2022

06/24/22 19:19

06/24/22 19:19

Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: THREE MILE CREEK

Cilent Sample ID. TREE WILE CREEK Lab Sample ID.

Date Collected: 06/24/22 10:38 Date Received: 06/24/22 16:20 Lab Sample ID: 400-221998-3 Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			06/24/22 18:40	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogenous Biochemical Oxygen	<2.0		2.0	2.0	mg/L			06/24/22 18:40	1
Demand									

Method: Enterolert - Enterococcus by Enterolert (Quantitray)									
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac		
Enterococci	100	1.0	1.0 MPN/100mL	_		06/24/22 16:49	1		

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Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221998-4

Date Collected: 06/24/22 11:13 Date Received: 06/24/22 16:20

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	150	1.0	1.0 CFU/100mL	_		06/24/22 16:33	1

Method: SM 9223 - Coliforms	Takal and E Oal!	(O a lilland Organiti Trans)
Method: SM 4223 - Colltorms	Intal and F Coll	(Collect - Cilianti Travi
Michiga. Civi 0220 - Comornio	i otal, alla E.ooli	(Comore Quanti Iray)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	150	Н	1.0	1.0	MPN/100mL	_		06/24/22 19:19	1
Coliform, Total	>2400	Н	1.0	1.0	MPN/100mL			06/24/22 19:19	1

Definitions/Glossary

Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Qualifiers

Biology

Qualifier **Qualifier Description**

Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this repo

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) **DER**

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Eurofins Pensacola

7/6/2022

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QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

General Chemistry

Analysis Batch: 582826

Lab San	nple ID Client Samp	ole ID	Prep Type	Matrix	Method	Prep Batch
400-2219	998-3 THREE MIL	E CREEK	Total/NA	Water	405.1	
400-2219	998-3 THREE MIL	E CREEK	Total/NA	Water	SM5210B CBOD	
USB 400	0-582826/1 Method Blar	k	Total/NA	Water	SM5210B CBOD	
LCS 400	-582826/2 Lab Control	Sample	Total/NA	Water	SM5210B CBOD	

Prep Batch: 583564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221998-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	365.2/365.3/365	
400-221998-2	UT TO THREE MILE CREEK	Total/NA	Water	365.2/365.3/365	
MB 400-583564/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 400-583564/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 583727

Lab Sample ID 400-221998-1	Client Sample ID TOULMIN SPRINGS BRANCH	Prep Type Total/NA	Matrix Water	Method 365.4	Prep Batch 583564
400-221998-2	UT TO THREE MILE CREEK	Total/NA	Water	365.4	583564
MB 400-583564/1-A	Method Blank	Total/NA	Water	365.4	583564
LCS 400-583564/2-A	Lab Control Sample	Total/NA	Water	365.4	583564
MRL 400-583727/11	Lab Control Sample	Total/NA	Water	365.4	

Biology

Analysis Batch: 582852

Lab Sample ID 400-221998-1	Client Sample ID TOULMIN SPRINGS BRANCH	Prep Type Total/NA	Matrix Water	Method SM 9222D	Prep Batch
400-221998-2	UT TO THREE MILE CREEK	Total/NA	Water	SM 9222D	
400-221998-4	BOLTON BRANCH (EAST)	Total/NA	Water	SM 9222D	
MB 400-582852/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-582852/2	Lab Control Sample	Total/NA	Water	SM 9222D	

Analysis Batch: 582975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221998-3	THREE MILE CREEK	Total/NA	Water	Enterolert	
MB 400-582975/1	Method Blank	Total/NA	Water	Enterolert	

Analysis Batch: 583015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221998-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	SM 9223	
400-221998-2	UT TO THREE MILE CREEK	Total/NA	Water	SM 9223	
400-221998-4	BOLTON BRANCH (EAST)	Total/NA	Water	SM 9223	
MB 400-583015/1	Method Blank	Total/NA	Water	SM 9223	

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RL

0.10

Spike

Added

2.00

Spike

Added

0.100

Spike

Added

198

MDL Unit

0.049 mg/L

LCS LCS

MRL MRL

0.149

RL

2.0

RL

1.0

RL

1.0

Result Qualifier

MDL Unit

LCS LCS

176

Result Qualifier

RL Unit

RL Unit

1.0 CFU/100mL

1.0 MPN/100mL

2.0 mg/L

2.02

Result Qualifier

Unit

mg/L

Unit

mg/L

Unit

mg/L

Client: Neel-Schaffer Inc.

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-583564/1-A

Matrix: Water

Analysis Batch: 583727

MB MB

USB USB

MB MB

<2.0

Result Qualifier

Result Qualifier Analyte

Phosphorus, Total < 0.049

Lab Sample ID: LCS 400-583564/2-A **Matrix: Water**

Analysis Batch: 583727

Phosphorus, Total

Lab Sample ID: MRL 400-583727/11

Matrix: Water

Analyte

Analysis Batch: 583727

Analyte Phosphorus, Total

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: USB 400-582826/1

Matrix: Water

Analysis Batch: 582826

Analyte Carbonaceous Biochemical Oxygen

Lab Sample ID: LCS 400-582826/2

Matrix: Water

Analysis Batch: 582826

Analyte

Carbonaceous Biochemical

Oxygen Demand

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

Lab Sample ID: MB 400-582975/1

Matrix: Water

Analysis Batch: 582975

Lab Sample ID: MB 400-582852/1

Result Qualifier

Analyte Enterococci <1.0

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Matrix: Water

Analysis Batch: 582852

MB MB Analyte

Result Qualifier Coliform, Fecal <1.0

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Job ID: 400-221998-1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 583564

Analyzed Dil Fac Prepared 07/04/22 13:52 07/05/22 16:57

Client Sample ID: Lab Control Sample

D %Rec

Prepared

Prepared

Prepared

Prep Type: Total/NA **Prep Batch: 583564**

%Rec Limits

75 - 113 101

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec Limits %Rec 50 - 150

Client Sample ID: Method Blank

Prep Type: Total/NA

Dil Fac

Analyzed 06/24/22 18:43

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec

Limits %Rec 89 85 - 115

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyzed Dil Fac

06/24/22 16:49

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyzed Dil Fac 06/24/22 16:33

Eurofins Pensacola

QC Sample Results

Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 400-583015/1

Matrix: Water

Analysis Batch: 583015

Client Sample ID: Method Blank
Prop Type: Total/NA

	•	

-	MB	MB							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	<1.0		1.0	1.0	MPN/100mL	_		06/24/22 19:19	1
Coliform, Total	<1.0		1.0	1.0	MPN/100mL			06/24/22 19:19	1

Job ID: 400-221998-1

Lab Sample ID: 400-221998-2

Lab Sample ID: 400-221998-3

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221998-1 **Matrix: Water**

Date Collected: 06/24/22 09:40 Date Received: 06/24/22 16:20

Client: Neel-Schaffer Inc

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	583564	07/04/22 13:52	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	583727	07/05/22 16:53	ANE	TAL PEN
Total/NA	Analysis	SM 9222D		1			582852		DVN	TAL PEN
							(Start)	06/24/22 16:33		
							(End)	06/25/22 18:10		
Total/NA	Analysis	SM 9223		1			583015	06/24/22 19:19	DVN	TAL PEN

Client Sample ID: UT TO THREE MILE CREEK

Date Collected: 06/24/22 10:13

Matrix: Water Date Received: 06/24/22 16:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	583564	07/04/22 13:52	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	583727	07/05/22 16:54	ANE	TAL PEN
Total/NA	Analysis	SM 9222D		1			582852		DVN	TAL PEN
							(Start)	06/24/22 16:33		
							(End)	06/25/22 18:10		
Total/NA	Analysis	SM 9223		1			583015	06/24/22 19:19	DVN	TAL PEN

Client Sample ID: THREE MILE CREEK

Date Collected: 06/24/22 10:38 Date Received: 06/24/22 16:20

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type **Factor** Amount Number or Analyzed Run Amount Analyst Lab Total/NA Analysis 405.1 300 mL 300 mL 582826 DVN TAL PEN (Start) 06/24/22 18:40 (End) 06/29/22 14:02 582826 Total/NA SM5210B CBOD 300 mL 300 mL DVN TAL PEN Analysis (Start) 06/24/22 18:40 (End) 06/29/22 14:02 06/24/22 16:49 DEK TAL PEN Total/NA Analysis Enterolert 582975

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221998-4 Date Collected: 06/24/22 11:13 **Matrix: Water** Date Received: 06/24/22 16:20

Prep Type Total/NA	Batch Type Analysis	Batch Method SM 9222D	Run	Factor 1	Initial Amount	Final Amount	Batch Number 582852	Prepared or Analyzed	Analyst DVN	Lab TAL PEN
	•						(Start) (End)	06/24/22 16:33 06/25/22 18:10		
Total/NA	Analysis	SM 9223		1			583015	06/24/22 19:19	DVN	TAL PEN

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Matrix: Water

7/6/2022

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Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: Method Blank

Date Collected: N/A

Lab Sample ID: MB 400-582852/1

Matrix: Water

Date Received: N/A

Client: Neel-Schaffer Inc

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Pre	р Туре	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Tota	al/NA	Analysis	SM 9222D		1			582852		DVN	TAL PEN
								(Start)	06/24/22 16:33		
L								(End)	06/25/22 18:10		

Client Sample ID: Method Blank

Date Collected: N/A Date Received: N/A

Lab Sample ID: MB 400-582975/1

Matrix: Water

Dil Batch Batch Initial Final Batch Prepared **Prep Type** Type Method **Amount Amount** Number or Analyzed Run **Factor** Analyst Lab Enterolert Total/NA Analysis 582975 06/24/22 16:49 DEK TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-583015/1

Matrix: Water

Batch Batch Dil Initial Final Batch Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount Amount** Analyst Lab Total/NA Analysis SM 9223 583015 06/24/22 19:19 DVN TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A Date Received: N/A

Lab Sample ID: MB 400-583564/1-A

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	583564	07/04/22 13:52	ANE	TAL PEN
Total/NA	Analysis	365.4		1	10 mL	10 mL	583727	07/05/22 16:57	ANE	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: USB 400-582826/1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	582826		DVN	TAL PEN
							(Start)	06/24/22 18:43		
							(End)	06/29/22 14:02		

Client Sample ID: Lab Control Sample

Date Collected: N/A Date Received: N/A

Lab Sample ID: LCS 400-582826/2

Matrix: Water

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM5210B CBOD		1	1 mL	1 mL	582826		DVN	TAL PEN
							(Start)	06/24/22 18:43		
							(End)	06/29/22 14:02		

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Lab Chronicle

Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-582852/2

Date Collected: N/A **Matrix: Water** Date Received: N/A

Batch Batch Dil Initial Batch Final Prepared Method **Factor Prep Type** Type Run **Amount Amount** Number or Analyzed **Analyst** Lab Total/NA SM 9222D 582852 DVN TAL PEN Analysis (Start) 06/24/22 16:33

(End) 06/25/22 18:10

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-583564/2-A Date Collected: N/A

Date Received: N/A

Dil Batch Batch Initial Final Batch Prepared **Prep Type** Туре Method **Factor** Amount Amount Number or Analyzed Run **Analyst** Lab Total/NA 365.2/365.3/365 583564 07/04/22 13:52 ANE TAL PEN Prep 25 mL 25 mL 583727 Total/NA Analysis 365.4 10 mL 10 mL 07/05/22 16:31 ANE TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: MRL 400-583727/11 Date Collected: N/A **Matrix: Water**

Date Received: N/A

Batch Dil Batch Initial Final **Batch** Prepared **Prep Type** Method **Amount** Amount Number or Analyzed Analyst Type Run **Factor** Lab Total/NA Analysis 365.4 583727 07/05/22 16:25 ANE TAL PEN 10 mL 10 mL

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Matrix: Water

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Eurofins Pensacola

Method Summary

Client: Neel-Schaffer Inc

Project/Site: Mobile MS4 Impaired Stream Sampling

Method **Method Description** Protocol Laboratory TAL PEN 365.4 Phosphorus, Total EPA BOD, 5-Day 405.1 **MCAWW** TAL PEN SM5210B CBOD Carbonaceous BOD, 5 Day TAL PEN SM Enterolert Enterococcus by Enterolert (Quantitray) IDEXX TAL PEN SM 9222D Coliforms, Fecal (Membrane Filter) SM TAL PEN SM 9223 Coliforms, Total, and E.Coli (Colilert - Quanti Tray) SM TAL PEN

Protocol References:

365.2/365.3/365

EPA = US Environmental Protection Agency

Phosphorus, Total

IDEXX = IDEXX Laboratories

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola

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Job ID: 400-221998-1

TAL PEN

MCAWW

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Accreditation/Certification Summary

Client: Neel-Schaffer Inc Job ID: 400-221998-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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Carrier Tracking No(s):

Chain of Custody Record

Eurofins TestAmerica, Pensacola

3355 McLemore Drive

Pensacola, FL 32514 Phone (850) 474-1001 Fax (850) 478-2671

0 - AsnaO2
P - Na2O45
P - Na2O3
Q - Na2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
W - MCAA
W - PH 4.5
Z - other (specify) Must set both BOD and CBOD Special Instructions/Note: Ver: 01/16/2019 Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) COC No: 400-85109-31845.1 reservation Codes A - HCL
B - NaOH
C - Zn Acetate
D - Nitro Acid
F - NaHSO4
F - Medlor
G - Amchlor
H - Ascorbic Acid Page 1 of 1 I - Ice J - DI Water K - EDTA L - EDA Archive For Total Number of containers 400-221998 COC lethod of Shipment Disposal By Lab Analysis Requested Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: × × SST - G0492 565.4 - Phosphorus, Total × × E-Mail: taylor.bruzzio@testamericainc.com × 102'1 - NBOD** × SWS210B_CBOD_SD - CBOD × × × × × × (QT) (QT) - Coliforms, Total and E. Coli Lab PM: Bruzzio, Taylor M × × × × × × Time: Preservation Code: Water Matrix Water Water Water Water Water Water Water ompany Parker 25 Radiological ₹ ₹ (C=comp, G=grab) Sample Type Grab Grab Grab Grab Grab Grab Grab Grab 1430 Purchase Order Requested Sample Ciois Date: Unknown 27/62 TAT Requested (days): **Date Requested:** Sample Date 27/27 Project #: 40010963 25 è FEST AMERICA INC. Poison B 700 - MOBIL Skin Irritant ☐ Non-Hazard ☐ Flammable ☐ Skin Irrite Deliverable Requested: I, III, IIV, Other (specify) Custody Seal No.: Mobile MS4 Impaired Stream Sampling brian.morgan@neel-schaffer.com Project Name: Possible Hazard Identification 210 25th Ave North Suite 800 Empty Kit Relinquished by: Custody Seals Intact: △ Yes △ No oulmin Springs Branch Client Information Sample Identification JT to Three Mile Creek Bolton Branch (East) Bolton Branch (West) Halls Mill Creek #2 251-471-2000(Tel) Halls Mill Creek #1 company: Neel-Schaffer, Inc hree Mile Creek Brian Morgan telinquished by: Moore Creek elinquished by: State, Zip: TN, 37203 Nashville

Client: Neel-Schaffer Inc Job Number: 400-221998-1

Login Number: 221998 List Source: Eurofins Pensacola

List Number: 1

Creator: DeKlerk, Michaela

Groutor: Bortiorit, infortable		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-222097-1

Client Project/Site: Mobile MS4 Impaired Stream Sampling

For:

Neel-Schaffer Inc PO BOX 22625 Jackson, Mississippi 39225

Attn: Brian Morgan

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Authorized for release by: 7/6/2022 4:40:59 PM

Taylor Bruzzio, Project Manager I (850)471-6226

Taylor.Bruzzio@et.eurofinsus.com

LINKS

Review your project results through

Have a Question?



Visit us at: www.eurofinsus.com/Env The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-222097-1

Comments

No additional comments.

Receipt

The samples were received on 6/28/2022 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.6° C.

General Chemistry

Method SM 9222D: The following samples were received with less than 1 hour remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MOORE CREEK (400-222097-3) and BOLTON BRANCH (WEST) (400-222097-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Detection Summary

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-222097-1

Analyte	Result Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	120	1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	180	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-222097-2

Analyte	Result Qualit	fier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	5.0	5.0	5.0	mg/L	1	_	SM 2540D	Total/NA
Coliform, Fecal	440	1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	610	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400	1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: MOORE CREEK

Lab Sample ID: 400-222097-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	170	H	1.0	1.0	CFU/100mL	1	_	SM 9222D	Total/NA
Escherichia coli	220		1.0	1.0	MPN/100mL	1		SM 9223	Total/NA
Coliform, Total	>2400		1.0	1.0	MPN/100mL	1		SM 9223	Total/NA

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-222097-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	O Method	Prep Type
Coliform, Fecal	250	Н	1.0	1.0	CFU/100mL	1	SM 9222D	Total/NA
Escherichia coli	290		1.0	1.0	MPN/100mL	1	SM 9223	Total/NA
Coliform, Total	>2400		1.0	1.0	MPN/100mL	1	SM 9223	Total/NA

This Detection Summary does not include radiochemical test results.

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Sample Summary

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Lab Sample ID Client Sample ID		Matrix	Collected	Received	
400-222097-1	HALLS MILL CREEK #1	Water	06/28/22 10:03	06/28/22 15:30	
400-222097-2	HALLS MILL CREEK #2	Water	06/28/22 10:51	06/28/22 15:30	
400-222097-3	MOORE CREEK	Water	06/28/22 09:11	06/28/22 15:30	
400-222097-4	BOLTON BRANCH (WEST)	Water	06/28/22 09:23	06/28/22 15:30	

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Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-222097-1 Date Collected: 06/28/22 10:03 **Matrix: Water**

Date Received: 06/28/22 15:30

General Chemistry Analyte Total Suspended Solids Method: SM 9222D - Coliforms, Fe	<5.0	Qualifier	RL	MDL 5.0	Unit mg/L	_ <u>D</u> .	Prepared	Analyzed 06/29/22 14:42	Dil Fac
Analyte	•	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	120		1.0	1.0	CFU/100mL			06/28/22 17:41	1
Method: SM 9223 - Coliforms, Tota	*	(Colilert - Qua	anti Tray) RL	RI	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	180	- Qualifier	1.0	1.0			riepaieu	06/28/22 17:04	1
Escrierichia con	100		1.0	1.0	IVII IV/ IOOIIIL			00/20/22 17.04	

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Client Sample Results

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #2

Date Collected: 06/28/22 10:51 Date Received: 06/28/22 15:30 Lab Sample ID: 400-222097-2

Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0		5.0	5.0	mg/L			06/29/22 14:42	1
- Method: SM 9222D - Coliforn	ns, Fecal (Membra	ne Filter)							
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	440		1.0	1.0	CFU/100mL			06/28/22 17:41	1
- Method: SM 9223 - Coliforms	s, Total, and E.Coli	(Colilert - Qua	anti Tray)						
						_	Duamanad	A so a lorma al	
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Escherichia coli	Result 610	Qualifier	1.0 RL	1.0	MPN/100mL	- U -	Prepared	06/28/22 17:04	Dil Fac

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Client Sample Results

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: MOORE CREEK

Coliform, Total

Lab Sample ID: 400-222097-3

Date Collected: 06/28/22 09:11 **Matrix: Water** Date Received: 06/28/22 15:30

Method: SM 9222D - Coliforms, Fecal (Membrane Filter) Result Qualifier RLRL Unit Prepared Analyzed Dil Fac 1.0 1.0 CFU/100mL 06/28/22 17:41 Coliform, Fecal 170 H Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray) Result Qualifier RL Unit D Prepared Analyzed Dil Fac Escherichia coli 220 1.0 1.0 MPN/100mL 06/28/22 17:04

1.0

>2400

1.0 MPN/100mL

06/28/22 17:04

Client Sample Results

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-222097-4

Date Collected: 06/28/22 09:23 Matrix: Water Date Received: 06/28/22 15:30

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	250	Н	1.0	1.0	CFU/100mL			06/28/22 17:41	1
Method: SM 9223 - Coliforms	s, Total, and E.Coli ((Colilert - Qua	anti Tray)						
		•		ΡI	Unit	n	Propared	Analyzod	Dil Fa
Method: SM 9223 - Coliforms Analyte		(Colilert - Qua	anti Tray)	RL	Unit	D	Prepared	Analyzed	Dil Fa
		•				<u>D</u> -	Prepared	Analyzed 06/28/22 17:04	Dil Fa

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Definitions/Glossary

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Qualifiers

R	io	lo	a	ν
_			3	J

H Sample was prepped or analyzed beyond the specified holding time

Glossary

These commonly used abbreviations may or may not be present in this report.
Listed under the "D" column to designate that the result is reported on a dry weight basis
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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QC Association Summary

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

General Chemistry

Analysis Batch: 583173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-222097-1	HALLS MILL CREEK #1	Total/NA	Water	SM 2540D	
400-222097-2	HALLS MILL CREEK #2	Total/NA	Water	SM 2540D	
MB 400-583173/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 400-583173/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Biology

Analysis Batch: 583314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-222097-1	HALLS MILL CREEK #1	Total/NA	Water	SM 9222D	
400-222097-2	HALLS MILL CREEK #2	Total/NA	Water	SM 9222D	
400-222097-3	MOORE CREEK	Total/NA	Water	SM 9222D	
400-222097-4	BOLTON BRANCH (WEST)	Total/NA	Water	SM 9222D	
MB 400-583314/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-583314/2	Lab Control Sample	Total/NA	Water	SM 9222D	

Analysis Batch: 583852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-222097-1	HALLS MILL CREEK #1	Total/NA	Water	SM 9223	<u> </u>
400-222097-2	HALLS MILL CREEK #2	Total/NA	Water	SM 9223	
400-222097-3	MOORE CREEK	Total/NA	Water	SM 9223	
400-222097-4	BOLTON BRANCH (WEST)	Total/NA	Water	SM 9223	
MB 400-583852/1	Method Blank	Total/NA	Water	SM 9223	

QC Sample Results

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 400-583173/1 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 583173 MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total Suspended Solids <0.50 0.50 0.50 mg/L 06/29/22 14:42

Lab Sample ID: LCS 400-583173/2 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583173

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Total Suspended Solids 295 288 mg/L 98 82 - 118

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-583314/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583314

MB MB Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac Coliform, Fecal <1.0 1.0 1.0 CFU/100mL 06/28/22 17:41

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 400-583852/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 583852

мв мв Dil Fac Analyte Result Qualifier RL RL Unit Prepared Analyzed D Escherichia coli <1.0 1.0 1.0 MPN/100mL 06/28/22 17:04 1.0 1.0 MPN/100mL 06/28/22 17:04 Coliform, Total <1.0

Eurofins Pensacola

Job ID: 400-222097-1

Client: Neel-Schaffer Inc

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: HALLS MILL CREEK #1

Date Collected: 06/28/22 10:03 Date Received: 06/28/22 15:30

Lab Sample ID: 400-222097-1

Lab Sample ID: 400-222097-3

Lab Sample ID: 400-222097-4

Lab Sample ID: MB 400-583173/1

06/29/22 14:42 VB

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

TAL PEN

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	100 mL	100 mL	583173	06/29/22 14:42	VB	TAL PEN
Total/NA	Analysis	SM 9222D		1			583314		DVN	TAL PEN
							(Start)	06/28/22 17:41		
							(End)	06/29/22 16:59		
Total/NA	Analysis	SM 9223		1			583852	06/28/22 17:04	DVN	TAL PEN

Client Sample ID: HALLS MILL CREEK #2 Lab Sample ID: 400-222097-2

Date Collected: 06/28/22 10:51

Date Received: 06/28/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	100 mL	100 mL	583173	06/29/22 14:42	VB	TAL PEN
Total/NA	Analysis	SM 9222D		1			583314		DVN	TAL PEN
							(Start)	06/28/22 17:41		
							(End)	06/29/22 16:59		
Total/NA	Analysis	SM 9223		1			583852	06/28/22 17:04	DVN	TAL PEN

Client Sample ID: MOORE CREEK

Date Collected: 06/28/22 09:11

Date Received: 06/28/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			583314		DVN	TAL PEN
							(Start)	06/28/22 17:41		
							(End)	06/29/22 16:59		
Total/NA	Analysis	SM 9223		1			583852	06/28/22 17:04	DVN	TAL PEN

Client Sample ID: BOLTON BRANCH (WEST)

Date Collected: 06/28/22 09:23

Date Received: 06/28/22 15:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			583314		DVN	TAL PEN
							(Start)	06/28/22 17:41		
							(End)	06/29/22 16:59		
Total/NA	Analysis	SM 9223		1			583852	06/28/22 17:04	DVN	TAL PEN

Client Sample ID: Method Blank

Analysis

SM 2540D

Date Collected: N/A

Total/NA

Date Received: N/	Date Received: N/A												
	Batch	Batch		Dil	Initial	Final	Batch	Prepared					
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab			

1000 mL

100 mL

583173

Eurofins Pensacola

Lab Chronicle

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Client Sample ID: Method Blank

Lab Sample ID: MB 400-583314/1 Date Collected: N/A

Matrix: Water

Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			583314		DVN	TAL PEN
							(Start)	06/28/22 17:41		
							(End)	06/29/22 16:59		

Client Sample ID: Method Blank

Lab Sample ID: MB 400-583852/1

Matrix: Water

Date Collected: N/A Date Received: N/A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9223		1			583852	06/28/22 17:04	DVN	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-583173/2

Matrix: Water

Date Collected: N/A Date Received: N/A

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Factor Amount Amount Number or Analyzed Type Run Analyst Lab Total/NA Analysis SM 2540D 100 mL 100 mL 583173 06/29/22 14:42 VΒ TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-583314/2

(End)

06/29/22 16:59

Matrix: Water

Date Collected: N/A Date Received: N/A

Dil Initial Batch Batch Final Batch Prepared Method Amount Prep Type Туре Run Factor Amount Number or Analyzed Analyst Lab Total/NA SM 9222D 583314 TAL PEN Analysis DVN (Start) 06/28/22 17:41

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Pensacola

Method Summary

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PEN
SM 9222D	Coliforms, Fecal (Membrane Filter)	SM	TAL PEN
SM 9223	Coliforms, Total, and E.Coli (Colilert - Quanti Tray)	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Accreditation/Certification Summary

Client: Neel-Schaffer Inc Job ID: 400-222097-1

Project/Site: Mobile MS4 Impaired Stream Sampling

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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Chain of Custody Record

Eurofins TestAmerica, Pensacola				
3355 McLemore Drive	Chain of Custody Becord	Bocord		
Pensacola, FL 32514	Oliaili ol oustouy	D 1000		TestAmerica
Phone (850) 474-1001 Fax (850) 478-2671				
	Sampler: C .1 La	Lab PM:	Carrier Tracking No(s):	COC No:
Client Information	Bruzzio, Taylor M	uzzio, Taylor M		400-85109-31845.1
Oliont Contact:	Dhono.	Mail:		Page:

Pensacola, FL 32514 Phone (850) 474-1001 Fax (850) 478-2671	Chain of Custody Record	p.o.		TestAmerica
Client Information	Sampler: (C.) D. C. A. C. Bruzzio. Tavlor M.	Tavlor M	Carrier Tracking No(s):	COC No: 400-85109-31845.1
Clent Contact: Clent Contact: Rrian Mordan	W W W W W	E-Mail:		Page: Page 1 of 1
Company	ng: Olda	de la company de		
Neel-Schaffer, Inc		Analysis Rec	Requested	
Address: 210 25th Ave North Suite 800	Due Date Requested:			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37203				
Phone: 251-471-2000(Tel)	ase Order Requested	(ΔΣ)		G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
Email: brian.morgan@neel-schaffer.com	S OT N	E. Col	8)	
Project Name: Mobile MS4 Impaired Stream Sampling		csl	entaine	L - EDA Z - other (specify)
Site:	dwes	ns, Fee ns, To' D_6D -	03 10	Other:
TEST AMERICA INC. 700 - MOBILE	Sample Matrix etc. Type Sarolle (C=Comp, o-wasteld, od	22D - Coliform MS/M 22B - Coliform 23B - Coliform M521 - NBOD*** 5,1 - NBOD*** 6,4 - Phospho	otal Number	:
Sample Identification	ii)	39 40 40 40 40 40 40 40 40 40 40 40 40 40	0.1	Special Instructions/Note:
	200	z z z		*Must set both BOD and CBOD
Toulmin Springs Branch	Grab Water	×		
UT to Three Mile Creek	Grab Water	× × ×		
Three Mile Creek	Grab Water	×××	NOTION OF THE PROPERTY OF THE	
Bolton Branch (East)	Grab Water	×		
Halls Mill Creek #1	6/26/12 10:03 9 Grab Water	×		
Halls Mill Creek #2	6/28/72 10.51 A Grab Water	× × ×	TO THE STATE OF TH	
Moore Creek	6/23/22 9 M Grab Water	×	3000	
Bolton Branch (West)	1.28/22 9:2	×		
			400-222097 COC	
				,
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	1 Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month, Return To Client	assessed if samples are retain Disposal By Lab	tained longer than 1 month) Archive For Months
, III, IV, Ot		Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date: Time:	:eı	Method of Shipment:	
Relinquished by: Crown Pronte.	128/22 11:10 Am	Received by: Policy	H Date/Time:	2 // / Company
Relinquished by: My PM L	Date/Time Company	Kecamaday:	Date Crime: 8	92 140 METS
	Date of the 188 188 Date 1885	Received by:	Date Time:	Сотрапу
Custody Seals Intact: Custody Seal No.: △ Yes △ No	, ,	Cooler Temperature(s) °C and Other Remarks:	gmarks: 128	
				Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Neel-Schaffer Inc Job Number: 400-222097-1

Login Number: 222097 List Source: Eurofins Pensacola

List Number: 1

Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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