

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



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



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
QC Association	11
QC Sample Results	12
Chronicle	14
Method Summary	17
Certification Summary	18
Chain of Custody	19
Receipt Checklists	20

Case Narrative

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

Job ID: 400-221002-1

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.



Detection Summary

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

Job ID: 400-221002-1

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221002-1

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	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

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Sample Summary

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

Job ID: 400-221002-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 400-221002-1

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	<0.049		0.10	0.049	mg/L		06/07/22 11:42	06/08/22 12:53	1

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.Coli (Colilert - Quanti Tray)

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 Sample Results

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

Job ID: 400-221002-1

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221002-2

Date Collected: 06/06/22 10:07

Matrix: Water

Date Received: 06/06/22 15:50

General Chemistry

Analyte	Result	Qualifier	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 - 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.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 Sample Results

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

Job ID: 400-221002-1

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 Demand	<2.0		2.0	2.0	mg/L			06/06/22 17:21	1

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Enterococci	12		1.0	1.0	MPN/100mL			06/06/22 16:49	1



Client Sample Results

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

Job ID: 400-221002-1

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221002-4

Date Collected: 06/06/22 11:30

Matrix: Water

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.Coli (Colilert - Quanti Tray)

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

Definitions/Glossary

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

Job ID: 400-221002-1

Qualifiers

General Chemistry

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

Glossary

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

QC Association Summary

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

Job ID: 400-221002-1

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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221002-3	THREE MILE CREEK	Total/NA	Water	405.1	
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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221002-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	365.4	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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221002-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	SM 9223	
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	

QC Sample Results

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

Job ID: 400-221002-1

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-580390/1-A
Matrix: Water
Analysis Batch: 580600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580390

Analyte	MB Result	MB Qualifier	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 12:32	1

Lab Sample ID: LCS 400-580390/2-A
Matrix: Water
Analysis Batch: 580600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	2.00	2.06		mg/L		103	75 - 113

Lab Sample ID: MRL 400-580600/10
Matrix: Water
Analysis Batch: 580600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	0.100	0.0814	J	mg/L		81	50 - 150

Method: 405.1 - BOD, 5-Day

Lab Sample ID: 400-221002-B-3 DU
Matrix: Water
Analysis Batch: 580486

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrogenous Biochemical Oxygen Demand			<2.0		mg/L			

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: USB 400-580486/1
Matrix: Water
Analysis Batch: 580486

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			06/06/22 17:56	1

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

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbonaceous Biochemical Oxygen Demand	198	189		mg/L		95	85 - 115

Lab Sample ID: 400-221002-B-3 DU
Matrix: Water
Analysis Batch: 580486

Client Sample ID: THREE MILE CREEK
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbonaceous Biochemical Oxygen Demand	<2.0		2.17		mg/L		NC	18

Eurofins Pensacola

QC Sample Results

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

Job ID: 400-221002-1

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

Lab Sample ID: MB 400-580488/1
 Matrix: Water
 Analysis Batch: 580488

Client Sample ID: Method Blank
 Prep Type: Total/NA

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

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

Lab Sample ID: MB 400-581432/1
 Matrix: Water
 Analysis Batch: 581432

Client Sample ID: Method Blank
 Prep Type: Total/NA

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

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

Lab Sample ID: MB 400-580474/1
 Matrix: Water
 Analysis Batch: 580474

Client Sample ID: Method Blank
 Prep Type: Total/NA

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

Lab Chronicle

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

Job ID: 400-221002-1

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 400-221002-2

Date Collected: 06/06/22 10:07

Matrix: Water

Date Received: 06/06/22 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 12:54	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: 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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)

Lab Sample ID: 400-221002-4

Date Collected: 06/06/22 11:30

Matrix: Water

Date Received: 06/06/22 15:50

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			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

Lab Chronicle

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

Job ID: 400-221002-1

Client Sample ID: Method Blank

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

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9223		1			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Enterolert		1			580488	06/06/22 16:49	DVN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-581432/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			581432	06/06/22 15:24 (Start) 06/07/22 16:08 (End)	DVN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: USB 400-580486/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

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

Client Sample ID: Lab Control Sample

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

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 12:33	ANE	TAL PEN

Lab Chronicle

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

Job ID: 400-221002-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-580486/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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	580486	06/06/22 17:56 06/11/22 19:27	DVN	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-581432/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			581432	06/06/22 15:24 06/07/22 16:08	DVN	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: MRL 400-580600/10

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4		1	10 mL	10 mL	580600	06/08/22 12:26	ANE	TAL PEN

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	405.1		1	300 mL	300 mL	580486	06/06/22 17:21 06/11/22 19:27	DVN	TAL PEN
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	580486	06/06/22 17:21 06/11/22 19:27	DVN	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 MS-4 Impaired Stream Sampling

Job ID: 400-221002-1

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

Accreditation/Certification Summary

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

Job ID: 400-221002-1

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

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

Chain of Custody Record



Environment Testing
 TestAmerica

Client Information		Lab PM:		Carrier Tracking No(s):		COC No:																																																													
Client Contact: Brian Morgan Company: Neel-Schaffer, Inc		Bruzzio, Taylor M E-Mail: taylor.bruzzio@testamericainc.com				400-85109-31845-1																																																													
Address: 210 25th Ave North Suite 800 City: Nashville State, Zip: TN, 37203		Due Date Requested: TAT Requested (days):		Analysis Requested <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">9222D - Coliforms, Fecal</td> <td style="width: 15%;">R</td> <td style="width: 15%;">R</td> <td style="width: 15%;">N</td> <td style="width: 15%;">S</td> <td style="width: 15%;">N</td> <td style="width: 15%;">S</td> <td style="width: 15%;">N</td> <td style="width: 15%;">S</td> <td style="width: 15%;">N</td> </tr> <tr> <td>9223B - Coliforms, Total and E. Coli (QT)</td> <td>R</td> <td>R</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> </tr> <tr> <td>SM52108_CBD_5D - CBD</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> </tr> <tr> <td>405.1 - NBOD...</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> </tr> <tr> <td>365.4 - Phosphorus, Total</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> </tr> <tr> <td>2540D - TSS</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> </tr> </table>		9222D - Coliforms, Fecal	R	R	N	S	N	S	N	S	N	9223B - Coliforms, Total and E. Coli (QT)	R	R	N	S	N	S	N	S	N	SM52108_CBD_5D - CBD	N	N	N	S	N	S	N	S	N	405.1 - NBOD...	N	N	N	S	N	S	N	S	N	365.4 - Phosphorus, Total	N	N	N	S	N	S	N	S	N	2540D - TSS	N	N	N	S	N	S	N	S	N	Page: Page 1 of 1	
9222D - Coliforms, Fecal	R	R	N			S	N	S	N	S	N																																																								
9223B - Coliforms, Total and E. Coli (QT)	R	R	N			S	N	S	N	S	N																																																								
SM52108_CBD_5D - CBD	N	N	N			S	N	S	N	S	N																																																								
405.1 - NBOD...	N	N	N	S	N	S	N	S	N																																																										
365.4 - Phosphorus, Total	N	N	N	S	N	S	N	S	N																																																										
2540D - TSS	N	N	N	S	N	S	N	S	N																																																										
Phone: 251-471-2000(Tel)		Purchase Order Requested		Field Filtered Sample (Yes or No) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">9222D - Coliforms, Fecal</td> <td style="width: 15%;">R</td> <td style="width: 15%;">R</td> <td style="width: 15%;">N</td> <td style="width: 15%;">S</td> <td style="width: 15%;">N</td> <td style="width: 15%;">S</td> <td style="width: 15%;">N</td> <td style="width: 15%;">S</td> <td style="width: 15%;">N</td> </tr> <tr> <td>9223B - Coliforms, Total and E. Coli (QT)</td> <td>R</td> <td>R</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> </tr> <tr> <td>SM52108_CBD_5D - CBD</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> </tr> <tr> <td>405.1 - NBOD...</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> </tr> <tr> <td>365.4 - Phosphorus, Total</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> </tr> <tr> <td>2540D - TSS</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> </tr> </table>		9222D - Coliforms, Fecal	R	R	N	S	N	S	N	S	N	9223B - Coliforms, Total and E. Coli (QT)	R	R	N	S	N	S	N	S	N	SM52108_CBD_5D - CBD	N	N	N	S	N	S	N	S	N	405.1 - NBOD...	N	N	N	S	N	S	N	S	N	365.4 - Phosphorus, Total	N	N	N	S	N	S	N	S	N	2540D - TSS	N	N	N	S	N	S	N	S	N	Job #:	
9222D - Coliforms, Fecal	R	R	N			S	N	S	N	S	N																																																								
9223B - Coliforms, Total and E. Coli (QT)	R	R	N	S	N	S	N	S	N																																																										
SM52108_CBD_5D - CBD	N	N	N	S	N	S	N	S	N																																																										
405.1 - NBOD...	N	N	N	S	N	S	N	S	N																																																										
365.4 - Phosphorus, Total	N	N	N	S	N	S	N	S	N																																																										
2540D - TSS	N	N	N	S	N	S	N	S	N																																																										
E-mail: brian.morgan@neel-schaffer.com		Project #: 40010963		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - EDTA L - EDA Z - other (specify)		Special Instructions/Note: *Must set both BOD and CBOD																																																													
Project Name: Mobile MS4 Impaired Stream Sampling		SSOW#:																																																																	
TEST AMERICA INC. 700 - MOBILE																																																																			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Newer, Swab, On-site, Grab)	Field Filtered Sample (Yes or No)	9222D - Coliforms, Fecal	9223B - Coliforms, Total and E. Coli (QT)	SM52108_CBD_5D - CBD	ENTEROLET - Enterococci	405.1 - NBOD...	365.4 - Phosphorus, Total	2540D - TSS	Total Number of Containers	Special Instructions/Note:																																																					
Tourmin Springs Branch	6/6/22	9:29A	Grab	Water	X	X	X	X	X	X	X	X																																																							
UT to Three Mile Creek	6/6/22	10:07A	Grab	Water	X	X	X	X	X	X	X	X																																																							
Three Mile Creek	6/6/22	10:51A	Grab	Water	X	X	X	X	X	X	X	X																																																							
Bolton Branch (East)	6/6/22	11:30A	Grab	Water	X	X	X	X	X	X	X	X																																																							
Halls Mill Creek #1			Grab	Water		X	X	X	X	X	X	X																																																							
Halls Mill Creek #2			Grab	Water		X	X	X	X	X	X	X																																																							
Moore Creek			Grab	Water		X	X	X	X	X	X	X																																																							
Bolton Branch (West)			Grab	Water		X	X	X	X	X	X	X																																																							

400-221002 COC

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Craig Parker* Date: 6/6/22 11:50 AM Company: _____

Relinquished by: _____ Date: 6/6/22 1M5 Company: _____

Relinquished by: _____ Date: 6/6/22 1550 Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: 2.0°C IBS



Login Sample Receipt Checklist

Client: Neel-Schaffer Inc

Job Number: 400-221002-1

Login Number: 221002

List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
QC Association	11
QC Sample Results	12
Chronicle	13
Method Summary	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	18

Case Narrative

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

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° 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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221383-1

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	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

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Sample Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

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 - Coliforms, Fecal (Membrane 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 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	120		1.0	1.0	MPN/100mL			06/13/22 16:30	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/13/22 16:30	1



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-221383-2

Date Collected: 06/13/22 10:00

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 - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	TNTC		1.0	1.0	CFU/100mL			06/13/22 16:40	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		1.0	1.0	MPN/100mL			06/13/22 16:30	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/13/22 16:30	1

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

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

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

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 - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	54		1.0	1.0	MPN/100mL			06/13/22 16:30	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/13/22 16:30	1



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221383-4

Date Collected: 06/13/22 09:42

Matrix: Water

Date Received: 06/13/22 15:45

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			06/13/22 16:40	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	230		1.0	1.0	MPN/100mL			06/13/22 16:30	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/13/22 16:30	1



Definitions/Glossary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

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

QC Association Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

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	

QC Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

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

Lab Sample ID: MB 400-581475/1
 Matrix: Water
 Analysis Batch: 581475

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB 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
 Matrix: Water
 Analysis Batch: 581475

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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
 Matrix: Water
 Analysis Batch: 582263

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<1.0		1.0	1.0	CFU/100mL			06/13/22 16:40	1

Lab Sample ID: 400-221383-1 DU
 Matrix: Water
 Analysis Batch: 582263

Client Sample ID: HALLS MILL CREEK #1
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	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
 Matrix: Water
 Analysis Batch: 582250

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB 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

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 400-221383-2

Date Collected: 06/13/22 10:00

Matrix: Water

Date Received: 06/13/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 400-221383-3

Date Collected: 06/13/22 09:26

Matrix: Water

Date Received: 06/13/22 15:45

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)

Lab Sample ID: 400-221383-4

Date Collected: 06/13/22 09:42

Matrix: Water

Date Received: 06/13/22 15:45

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: Method Blank

Lab Sample ID: MB 400-581475/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

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

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221383-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582250/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Date Collected: N/A

Matrix: Water

Date Received: N/A

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		

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-581475/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Date Collected: N/A

Matrix: Water

Date Received: N/A

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		

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221383-1 DU

Date Collected: 06/13/22 11:26

Matrix: Water

Date Received: 06/13/22 15:45

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		

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

Job ID: 400-221383-1

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



Accreditation/Certification Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling


Job ID: 400-221383-1

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

Chain of Custody Record

Client Information		Lab PIV:		Carrier Tracking No(s):											
Client Contact: Brian Morgan		Bruccio, Taylor M		400-85109-31845.1											
Company: Neel-Schaffer, Inc		E-Mail: taylor.bruccio@testamericainc.com		Page: Page 1 of 1											
Address: 210 25th Ave North Suite 800		Due Date Requested:		Job #:											
City: Nashville		TAT Requested (days):		Preservation Codes:											
State, Zip: TN, 37203		PO #:		A - HCL M - Hexane B - NaOH N - None O - AsNaO2 C - Zn Acetate P - Na2O4S D - Nitric Acid E - NaHSO4 F - MeOH R - Na2SO3 S - H2SO4 G - Archlor H - Ascorbic Acid I - Ice J - DI Water U - Acetone V - MCAA W - pH 4.5 K - EDTA L - EDA Z - other (specify) Other:											
Purchase Order Requested		WO #:		Total Number of containers											
Project #: 40010963		Project Name: Mobile MS4 Impaired Stream Sampling		Special Instructions/Note: *Must set both BOD and CBOD											
SSOW#:		TEST AMERICA INC. 700 - MOBILE													
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wateroil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	922D - Coliforms, Fecal	922B - Coliforms, Total and E. Coli (QT)	SM5210B_CBD_5D - CBOD	ENTEROLERT - Enterococci	405.1 - NBOD***	365.4 - Phosphorus, Total	2540D - TSS	Analysis Requested	Special Instructions/Note
Toulmin Springs Branch			Grab	Water	X	X	X	X							
UT to Three Mile Creek			Grab	Water		X	X	X							
Three Mile Creek			Grab	Water				X							
Bolton Branch (East)			Grab	Water		X	X	X							
Halls Mill Creek #1	6/13/22	11:36A	Grab	Water		X	X	X							
Halls Mill Creek #2	6/13/22	10:00A	Grab	Water		X	X	X							
Moore Creek	6/13/22	9:26A	Grab	Water		X	X	X							
Bolton Branch (West)	6/13/22	9:42A	Grab	Water		X	X	X							
															
400-221383 COC															
<p>Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: <i>Craig Parker</i> Date/Time: 6/13/22 11:52 AM Company _____</p> <p>Relinquished by: _____ Date/Time: 6/13/22 1410 Company _____</p> <p>Relinquished by: _____ Date/Time: 6/13/22 1545 Company _____</p> <p>Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____</p>															



Login Sample Receipt Checklist

Client: Neel-Schaffer Inc

Job Number: 400-221383-1

Login Number: 221383

List Number: 1

Creator: DeKlerk, Michaela

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	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	

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



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

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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
QC Association	11
QC Sample Results	12
Chronicle	13
Method Summary	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	18

Case Narrative

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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.

Eurofins Pensacola

Sample Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221744-1

Date Collected: 06/20/22 09:51

Matrix: Water

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 - Coliforms, Fecal (Membrane 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 - Quanti 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

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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

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, Fecal (Membrane 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 - Quanti Tray)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	370		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 Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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 (Membrane 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, Total, and E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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

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

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

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	59		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



Definitions/Glossary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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

QC Association Summary

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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	

QC Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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

Lab Sample ID: MB 400-582150/1
 Matrix: Water
 Analysis Batch: 582150

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50	0.50	mg/L			06/21/22 16:04	1

Lab Sample ID: LCS 400-582150/2
 Matrix: Water
 Analysis Batch: 582150

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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
 Matrix: Water
 Analysis Batch: 582265

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<1.0		1.0	1.0	CFU/100mL			06/20/22 17:02	1

Lab Sample ID: 400-221744-1 DU
 Matrix: Water
 Analysis Batch: 582265

Client Sample ID: HALLS MILL CREEK #1
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Coliform, Fecal	650		1000		CFU/100mL		42	50

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

Lab Sample ID: MB 400-582248/1
 Matrix: Water
 Analysis Batch: 582248

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB 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

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221744-1

Date Collected: 06/20/22 09:51

Matrix: Water

Date Received: 06/20/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

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			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

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			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	1000 mL	100 mL	582150	06/21/22 16:04	VB	TAL PEN

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582248/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

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

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582265/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

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			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

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			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
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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



Accreditation/Certification Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221744-1

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

Chain of Custody Record

Client Information		Sampler: <u>Craig Parker</u>		Lab PM: Bruzzio, Taylor M		Carrier Tracking No(s):		COC No: 400-85109-31845.1	
Client Contact: Brian Morgan		Phone:		E-Mail: taylor.bruzzio@testamericainc.com		Page: Page 1 of 1		Job #:	
Company: Neel-Schaffer, Inc		Due Date Requested:		Analysis Requested		Preservation Codes:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Address: 210 25th Ave North Suite 800		TAT Requested (days):		9223B - Coliforms, Total and E. Coli (QT)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Special Instructions/Note: *Must set both BOD and CBOD	
City: Nashville		Purchase Order Requested		922D - Coliforms, Fecal		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Total Number of containers	
State, Zip: TN, 37203		PO #:		Field Filtered Sample (Yes or No)		35.4 - Phosphorus, Total		X	
Phone: 251-471-2000(Tel)		WO #:		Form MS/MSD (Yes or No)		405.1 - NBOD...		X	
Email: brian.morgan@neel-schaffer.com		Project #:		9223B - Coliforms, Total and E. Coli (QT)		ENTEROBERT - Enterococci		X	
Project Name: Mobile MS4 Impaired Stream Sampling		40010963		922D - Coliforms, Fecal		SM5210B CBOD_5D - CBOD		X	
Site: SSOW#:		Sample Date		922D - Coliforms, Fecal		SM5210B CBOD_5D - CBOD		X	
Sample Identification		Sample Time		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
700 - MOBILE		Sample Date		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Toulmin Springs Branch		Sample Time		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
UT to Three Mile Creek		Sample Date		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Three Mile Creek		Sample Time		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Bolton Branch (East)		Sample Date		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Halls Mill Creek #1		Sample Time		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Halls Mill Creek #2		Sample Date		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Moore Creek		Sample Time		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Bolton Branch (West)		Sample Date		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Possible Hazard Identification		Sample Date		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		Sample Time		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Date		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Empty Kit Relinquished by:		Sample Time		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Relinquished by: <u>Craig Parker</u>		Sample Date		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Relinquished by: <u>M. Padgett</u>		Sample Time		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Relinquished by: <u>M. Padgett</u>		Sample Date		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Custody Seals Intact: <u>Yes</u>		Sample Time		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	
Custody Seal No.:		Sample Date		922D - Coliforms, Fecal		ENTEROBERT - Enterococci		X	

Login Sample Receipt Checklist

Client: Neel-Schaffer Inc

Job Number: 400-221744-1

Login Number: 221744

List Number: 1

Creator: Perez, Trina M

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	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	
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	



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



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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
QC Association	11
QC Sample Results	12
Chronicle	14
Method Summary	17
Certification Summary	18
Chain of Custody	19
Receipt Checklists	20

Case Narrative

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

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.



Detection Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

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	H	1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	110	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: UT TO THREE MILE CREEK

Lab Sample ID: 400-221501-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	0.16		0.10	0.049	mg/L	1		365.4	Total/NA
Coliform, Fecal	2900		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: 400-221501-3

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.

Eurofins Pensacola

Sample Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221501-1

Date Collected: 06/15/22 09:19

Matrix: Water

Date Received: 06/15/22 15:55

General Chemistry

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 - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	880	H	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	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 Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221501-2

Date Collected: 06/15/22 10:00

Matrix: Water

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

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 Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221501-3

Date Collected: 06/15/22 10:26

Matrix: Water

Date Received: 06/15/22 15:55

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			06/15/22 17:56	1

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 - Enterococcus by Enterolert (Quantitray)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Enterococci	>2400		1.0	1.0	MPN/100mL			06/15/22 16:59	1

Client Sample Results

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Client Sample ID: BOLTON BRANCH (EAST)

Lab Sample ID: 400-221501-4

Date Collected: 06/15/22 11:08

Matrix: Water

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

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

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

Definitions/Glossary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Qualifiers

General Chemistry

Qualifier	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.
⌘	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

QC Association Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221501-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	365.4	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	

QC Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-582315/1-A
 Matrix: Water
 Analysis Batch: 582593

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 582315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	<0.049		0.10	0.049	mg/L		06/22/22 15:02	06/24/22 11:15	1

Lab Sample ID: LCS 400-582315/2-A
 Matrix: Water
 Analysis Batch: 582593

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 582315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	2.00	2.13		mg/L		107	75 - 113

Lab Sample ID: MRL 400-582593/10
 Matrix: Water
 Analysis Batch: 582593

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	0.100	0.131		mg/L		131	50 - 150

Method: 405.1 - BOD, 5-Day

Lab Sample ID: LCS 400-581767/2
 Matrix: Water
 Analysis Batch: 581767

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	170		mg/L		86	85 - 115

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: USB 400-581768/1
 Matrix: Water
 Analysis Batch: 581768

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			06/16/22 17:58	1

Lab Sample ID: LCS 400-581768/2
 Matrix: Water
 Analysis Batch: 581768

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbonaceous Biochemical Oxygen Demand	198	187		mg/L		95	85 - 115

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

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

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Enterococci	<1.0		1.0	1.0	MPN/100mL			06/15/22 16:59	1

Eurofins Pensacola

QC Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

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

Lab Sample ID: MB 400-581616/1
 Matrix: Water
 Analysis Batch: 581616

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<1.0		1.0	1.0 CFU/100mL			06/15/22 13:38	1

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

Lab Sample ID: MB 400-582251/1
 Matrix: Water
 Analysis Batch: 582251

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	<1.0		1.0	1.0 MPN/100mL			06/15/22 16:44	1
Coliform, Total	<1.0		1.0	1.0 MPN/100mL			06/15/22 16:44	1

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221501-1

Date Collected: 06/15/22 09:19

Matrix: Water

Date Received: 06/15/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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		
Total/NA	Analysis	SM 9223		1			582251	06/15/22 17:40	DVN	TAL PEN

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221501-2

Date Collected: 06/15/22 10:00

Matrix: Water

Date Received: 06/15/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 400-221501-3

Date Collected: 06/15/22 10:26

Matrix: Water

Date Received: 06/15/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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)

Lab Sample ID: 400-221501-4

Date Collected: 06/15/22 11:08

Matrix: Water

Date Received: 06/15/22 15:55

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			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

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-581616/1

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	SM 9222D		1			581616	06/15/22 13:38 06/16/22 13:47	DVN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-581787/1

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	Enterolert		1			581787	06/15/22 16:59	DEK	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-582251/1

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	SM 9223		1			582251	06/15/22 16:44	DVN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

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

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	405.1		1	300 mL	300 mL	581767	06/16/22 17:58 06/21/22 14:20	DVN	TAL PEN

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	06/16/22 17:58 06/21/22 14:20	DVN	TAL PEN

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-581616/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			581616	06/15/22 13:38 (Start) 06/16/22 13:47 (End)	DVN	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-581767/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-581768/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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	581768	06/16/22 17:58 (Start) 06/21/22 14:20 (End)	DVN	TAL PEN

Client Sample ID: Lab Control Sample

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

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 11:16	ANE	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: MRL 400-582593/10

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4		1	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

Method Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1

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

Accreditation/Certification Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221501-1


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

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

Chain of Custody Record

Client Information		Sampler: <i>Samir Parker</i>	Lab P/N: Bruzzio, Taylor M	Carrier Tracking No(s):	COC No: 400-85109-31845-1
Client Contact: Brian Morgan		Phone: <i>615-122-1135</i>	E-Mail: <i>taylor.bruzzio@testamericainc.com</i>		Page: Page 1 of 1
Company: Neel-Schaffer, Inc		Due Date Requested:		Job #:	
Address: 210 25th Ave North Suite 800		TAT Requested (days):		Preservation Codes:	
City: Nashville				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsHClO2 P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
State/Zip: TN, 37203		Purchase Order Requested		Other:	
Phone: 251-471-2000(Tel)		Project #:		Special Instructions/Note:	
Email: <i>brian.morgan@neel-schaffer.com</i>		SSOW#:		*Must set both BOD and CBOD	
Project Name: Mobile MS4 Impaired Stream Sampling		Project #:			
Site:		SSOW#:			
TEST AMERICA INC. 700 - MOBILE					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Water/Oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)
Tourlinn Springs Branch	<i>6/15/22</i>	<i>9:19 AM</i>	Grab	Water	<input checked="" type="checkbox"/>
UT to Three Mile Creek	<i>6/15/22</i>	<i>10:09 AM</i>	Grab	Water	<input checked="" type="checkbox"/>
Three Mile Creek	<i>6/15/22</i>	<i>10:26 AM</i>	Grab	Water	<input checked="" type="checkbox"/>
Bolton Branch (East)	<i>6/15/22</i>	<i>11:08 AM</i>	Grab	Water	<input checked="" type="checkbox"/>
Halls Mill Creek #1			Grab	Water	<input checked="" type="checkbox"/>
Halls Mill Creek #2			Grab	Water	<input checked="" type="checkbox"/>
Moore Creek			Grab	Water	<input checked="" type="checkbox"/>
Bolton Branch (West)			Grab	Water	<input checked="" type="checkbox"/>
					
400-221501 COC					
Possible Hazard Identification					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by: _____ Date: _____					
Relinquished by: <i>Samir Parker</i>		Date/Time: <i>6/15/22 11:25 AM</i>	Company:	Time:	Method of Shipment:
Relinquished by: _____		Date/Time: <i>6/15/22 11:35 AM</i>	Company:	Time:	Method of Shipment:
Relinquished by: _____		Date/Time: <i>6/15/22 15:55</i>	Company: <i>DETS</i>	Time:	Method of Shipment:
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	Received by: <i>MS</i>	Received by: <i>MS</i>	Cooler Temperature(s) °C and Other Remarks: <i>0.5°C 129</i>
Special Instructions/QC Requirements:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					

Login Sample Receipt Checklist

Client: Neel-Schaffer Inc

Job Number: 400-221501-1

Login Number: 221501

List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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



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

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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
QC Association	11
QC Sample Results	12
Chronicle	13
Method Summary	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	18

Case Narrative

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

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.

Detection Summary

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

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	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: 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	H	1.0	1.0	CFU/100mL	1			SM 9222D	Total/NA
Escherichia coli	76	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: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221584-4

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

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Sample Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

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
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221584-1

Date Collected: 06/16/22 10:34

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	1

Method: SM 9222D - Coliforms, Fecal (Membrane 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, Total, and E.Coli (Colilert - Quanti 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
Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/16/22 18:40	1



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-221584-2

Date Collected: 06/16/22 11:06

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	1

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	290		1.0	1.0	MPN/100mL			06/16/22 18:40	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/16/22 18:40	1



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

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

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	1800	H	1.0	1.0	CFU/100mL			06/16/22 17:51	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	76	H	1.0	1.0	MPN/100mL			06/16/22 18:40	1
Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/16/22 18:40	1



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

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

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	880	H	1.0	1.0	CFU/100mL			06/16/22 17:51	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	73	H	1.0	1.0	MPN/100mL			06/16/22 18:40	1
Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/16/22 18:40	1



Definitions/Glossary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

Qualifiers

Biology

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
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.
α	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

QC Association Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

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	

QC Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

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

Lab Sample ID: MB 400-581792/1
 Matrix: Water
 Analysis Batch: 581792

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50	0.50	mg/L			06/17/22 16:16	1

Lab Sample ID: LCS 400-581792/2
 Matrix: Water
 Analysis Batch: 581792

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec 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

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<1.0		1.0	1.0	CFU/100mL			06/16/22 17:51	1

Lab Sample ID: 400-221584-1 DU
 Matrix: Water
 Analysis Batch: 582266

Client Sample ID: HALLS MILL CREEK #1
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Coliform, Fecal	810		1400	F3	CFU/100mL		53	50

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

Lab Sample ID: MB 400-582252/1
 Matrix: Water
 Analysis Batch: 582252

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	<1.0		1.0	1.0	MPN/100mL			06/16/22 18:40	1
Coliform, Total	<1.0		1.0	1.0	MPN/100mL			06/16/22 18:40	1

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221584-1

Date Collected: 06/16/22 10:34

Matrix: Water

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 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

Date Collected: 06/16/22 11:06

Matrix: Water

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 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

Date Collected: 06/16/22 09:37

Matrix: Water

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

Date Collected: 06/16/22 09:50

Matrix: Water

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: Method Blank

Lab Sample ID: MB 400-581792/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	1000 mL	100 mL	581792	06/17/22 16:16	VB	TAL PEN

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-582252/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Date Collected: N/A

Matrix: Water

Date Received: N/A

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		

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-581792/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	100 mL	100 mL	581792	06/17/22 16:16	VB	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-582266/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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		

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221584-1 DU

Date Collected: 06/16/22 10:34

Matrix: Water

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		

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

Job ID: 400-221584-1

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



Accreditation/Certification Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221584-1

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

Chain of Custody Record

Client Information
 Client Contact: Brian Morgan
 Company: Neel-Schaffer, Inc
 Address: 210 25th Ave North Suite 800
 City: Nashville
 State, Zip: TN, 37203
 Phone: 251-471-2000(Tel)
 Email: brian.morgan@neel-schaffer.com
 Project Name: Mobile MS4 Impaired Stream Sampling
 Site:

Due Date Requested:
 TAT Requested (days):
 PO #:
 Purchase Order Requested
 WO #:
 Project #:
 40010963
 SSOW#:

Sampler: Craig Parker
 Lab PM: Bruzzio, Taylor M
 E-Mail: taylor.bruzzio@testamericainc.com

COC No: 400-85109-31845.1
 Page: Page 1 of 1
 Job #:

Analysis Requested

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT= tissue, A=air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	9222D - Coliforms, Fecal	9223B - Coliforms, Total and E. Coli (QT)	SM5210B, CBOD_5D - CBOD	ENTEROLET - Enterococci	405.1 - NBOD***	365.4 - Phosphorus, Total	2540D - TSS	Total Number of Containers	Special Instructions/Note:
Toulmin Springs Branch			Grab	Water			X	X							*Must set both BOD and CBOD
UT to Three Mile Creek			Grab	Water			X	X							
Three Mile Creek			Grab	Water							X				
Bolton Branch (East)			Grab	Water							X				
Halls Mill Creek #1	6/16/22	11:31A	Grab	Water			X	X							
Halls Mill Creek #2	6/16/22	11:50A	Grab	Water			X	X							
Moore Creek	6/16/22	9:37A	Grab	Water			X	X							
Bolton Branch (West)	6/16/22	9:50A	Grab	Water			X	X							400-221584 COC

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: Craig Parker Date/Time: 6/16/22 11:37AM Company: _____

Relinquished by: _____ Date/Time: 6/16/22 11:50 Company: _____

Relinquished by: _____ Date/Time: 6/16/22 16:30 Company: BEAS

Custody Seal No.: _____
 Custody Seals Intact: Yes No

Special Instructions/Note: Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Received by: _____ Date/Time: 6/16/22 11:30 Company: _____

Received by: _____ Date/Time: 6/16/22 14:00 Company: BEAS

Received by: _____ Date/Time: 6/16/22 16:30 Company: BEAS

Scout Temperature(s) °C and Other Remarks: 0.1°C 1.8



Login Sample Receipt Checklist

Client: Neel-Schaffer Inc

Job Number: 400-221584-1

Login Number: 221584

List Number: 1

Creator: Roberts, Alexis J

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	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	

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



Authorized for release by:

6/30/2022 6:45:35 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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
QC Association	11
QC Sample Results	12
Chronicle	14
Method Summary	17
Certification Summary	18
Chain of Custody	19
Receipt Checklists	20

Case Narrative

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

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	H	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	1		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

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Sample Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221858-1

Date Collected: 06/22/22 09:36

Matrix: Water

Date Received: 06/22/22 15:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.29		0.10	0.049	mg/L		06/28/22 18:04	06/29/22 13:01	1

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	770	H	1.0	1.0	CFU/100mL			06/23/22 14:26	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	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

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221858-2

Date Collected: 06/22/22 10:06

Matrix: Water

Date Received: 06/22/22 15:45

General Chemistry

Analyte	Result	Qualifier	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, 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 (Colilert - Quanti Tray)

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 Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221858-3

Date Collected: 06/22/22 10:40

Matrix: Water

Date Received: 06/22/22 15:45

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

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

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

Client Sample Results

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

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

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

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

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

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
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

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.
α	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

QC Association Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

General Chemistry

Analysis Batch: 582664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221858-3	THREE MILE CREEK	Total/NA	Water	405.1	
400-221858-3	THREE MILE CREEK	Total/NA	Water	SM5210B CBOD	
USB 400-582664/1	Method Blank	Total/NA	Water	SM5210B CBOD	
LCS 400-582664/2	Lab Control Sample	Total/NA	Water	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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221858-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	365.4	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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221858-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	SM 9223	
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	

QC Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-583059/1-A
 Matrix: Water
 Analysis Batch: 583148

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 583059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	<0.049		0.10	0.049	mg/L		06/28/22 18:04	06/29/22 12:38	1

Lab Sample ID: LCS 400-583059/2-A
 Matrix: Water
 Analysis Batch: 583148

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 583059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	2.00	2.13		mg/L		106	75 - 113

Lab Sample ID: MRL 400-583148/2
 Matrix: Water
 Analysis Batch: 583148

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	0.100	0.124		mg/L		124	50 - 150

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: USB 400-582664/1
 Matrix: Water
 Analysis Batch: 582664

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			06/22/22 18:23	1

Lab Sample ID: LCS 400-582664/2
 Matrix: Water
 Analysis Batch: 582664

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbonaceous Biochemical Oxygen Demand	198	185		mg/L		93	85 - 115

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

Lab Sample ID: MB 400-582974/1
 Matrix: Water
 Analysis Batch: 582974

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Enterococci	<1.0		1.0	1.0	MPN/100mL			06/22/22 16:15	1

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

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

Client Sample ID: Method Blank
 Prep Type: Total/NA

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

Eurofins Pensacola

QC Sample Results

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

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

Lab Sample ID: MB 400-582535/1
Matrix: Water
Analysis Batch: 582535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB 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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

Client Sample ID: TOULMIN SPRINGS BRANCH

Lab Sample ID: 400-221858-1

Date Collected: 06/22/22 09:36

Matrix: Water

Date Received: 06/22/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 400-221858-2

Date Collected: 06/22/22 10:06

Matrix: Water

Date Received: 06/22/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 400-221858-3

Date Collected: 06/22/22 10:40

Matrix: Water

Date Received: 06/22/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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)

Lab Sample ID: 400-221858-4

Date Collected: 06/22/22 11:17

Matrix: Water

Date Received: 06/22/22 15:45

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 14:26		
							(End)	06/24/22 16:18		
Total/NA	Analysis	SM 9223		1			582535	06/22/22 16:10	DVN	TAL PEN

Lab Chronicle

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-582535/1

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	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

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			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

Date Received: N/A

Lab Sample ID: MB 400-582974/1

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	Enterolert		1			582974	06/22/22 16:15	DVN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

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

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: USB 400-582664/1

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	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

Date Received: 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		DVN	TAL PEN
							(Start)	06/22/22 18:23		
							(End)	06/27/22 17:11		

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221858-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-582737/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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	(Start) 06/23/22 14:26 (End) 06/24/22 16:18	DVN	TAL PEN

Client Sample ID: Lab Control Sample

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

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 12:39	ANE	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: MRL 400-583148/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Job ID: 400-221858-1

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

Accreditation/Certification Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling


Job ID: 400-221858-1

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

Client Information		Lab P/W:		Carrier Tracking No(s):		COC No:	
Client Contact:	Brian Morgan	Bruzzio, Taylor M	E-Mail:	taylor.bruzzio@testamericainc.com	400-85109-31845.1	Page:	Page 1 of 1
Company:	Neel-Schaffer, Inc					Job #:	
Address:		210 25th Ave North Suite 800		Analysis Requested		Preservation Codes:	
City:		Nashville		 400-221858 COC		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
State, Zip:		TN, 37203		922D - Coliforms, Fecal 922B - Coliforms, Total and E. Coli (QT) SM5210B_CBOD_5D - CBOD ENTEROLERT - Enterococci 405.1 - NBOD*** 365.4 - Phosphorus, Total 2540D - TSS		M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone:		251-471-2000(Tel)		Total Number of Containers		*Must set both BOD and CBOD	
Email:		brian.morgan@neel-schaffer.com					
Project Name:		Mobile MS4 Impaired Stream Sampling					
Site:							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
Toulmin Springs Branch	6/22/22	9:36A	Grab	Water			
UT to Three Mile Creek	6/22/22	10:06A	Grab	Water			
Three Mile Creek	6/22/22	10:40A	Grab	Water			
Bolton Branch (East)	6/22/22	11:17A	Grab	Water			
Halls Mill Creek #1			Grab	Water			
Halls Mill Creek #2			Grab	Water			
Moore Creek			Grab	Water			
Bolton Branch (West)			Grab	Water			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Special Instructions/QC Requirements:							
Empty Kit Relinquished by:				Date:			
Relinquished by: <i>Craig Parker</i>				Date/Time: 6/22/22 11:37A			
Relinquished by: <i>M. Podgajst</i>				Date/Time: 6/22/22 1400			
Relinquished by: <i>[Signature]</i>				Date/Time: 6/22/22 1515			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:			
Cooled Temperature(s) °C and Other Remarks: <i>S.O.C. RB</i>							

Login Sample Receipt Checklist

Client: Neel-Schaffer Inc

Job Number: 400-221858-1

Login Number: 221858

List Source: Eurofins Pensacola

List Number: 1

Creator: DeKlerk, Michaela

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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



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

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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
QC Association	11
QC Sample Results	12
Chronicle	13
Method Summary	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	18

Case Narrative

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

Client Sample ID: HALLS MILL CREEK #1

Lab Sample ID: 400-221936-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	100		1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	130	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: HALLS MILL CREEK #2

Lab Sample ID: 400-221936-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	250		1.0	1.0	CFU/100mL	1		SM 9222D	Total/NA
Escherichia coli	150	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: MOORE CREEK

Lab Sample ID: 400-221936-3

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	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: 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

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Sample Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

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		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	100		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	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 Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-221936-2

Date Collected: 06/23/22 10:56

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		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)

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	H	1.0	1.0	MPN/100mL			06/23/22 22:55	1

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

Client Sample ID: MOORE CREEK

Lab Sample ID: 400-221936-3

Date Collected: 06/23/22 09:22

Matrix: Water

Date Received: 06/23/22 14:40

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



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

Client Sample ID: BOLTON BRANCH (WEST)

Lab Sample ID: 400-221936-4

Date Collected: 06/23/22 09:39

Matrix: Water

Date Received: 06/23/22 14:40

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	48		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	45	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



Definitions/Glossary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

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.
α	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

QC Association Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

General Chemistry

Analysis Batch: 582616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221936-1	HALLS MILL CREEK #1	Total/NA	Water	SM 2540D	
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	

QC Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

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

Lab Sample ID: MB 400-582616/1
 Matrix: Water
 Analysis Batch: 582616

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50	0.50	mg/L			06/24/22 14:24	1

Lab Sample ID: LCS 400-582616/2
 Matrix: Water
 Analysis Batch: 582616

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

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

Lab Sample ID: 400-221936-1 DU
 Matrix: Water
 Analysis Batch: 582616

Client Sample ID: HALLS MILL CREEK #1
 Prep Type: Total/NA

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

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

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

Client Sample ID: Method Blank
 Prep Type: Total/NA

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

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

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

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	<1.0		1.0	1.0	MPN/100mL			06/23/22 22:55	1
Coliform, Total	<1.0		1.0	1.0	MPN/100mL			06/23/22 22:55	1

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 400-221936-2

Date Collected: 06/23/22 10:56

Matrix: Water

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 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: MOORE CREEK

Lab Sample ID: 400-221936-3

Date Collected: 06/23/22 09:22

Matrix: Water

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)

Lab Sample ID: 400-221936-4

Date Collected: 06/23/22 09:39

Matrix: Water

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

Lab Sample ID: MB 400-582616/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	1000 mL	100 mL	582616	06/24/22 14:24	VB	TAL PEN

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-582737/1

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	SM 9222D		1			582737	06/23/22 14:26 (Start) 06/24/22 16:18 (End)	DVN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-583000/1

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	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

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

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			582737	06/23/22 14:26 (Start) 06/24/22 16:18 (End)	DVN	TAL PEN

Client Sample ID: HALLS MILL CREEK #1

Date Collected: 06/23/22 10:19

Date Received: 06/23/22 14:40

Lab Sample ID: 400-221936-1 DU

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 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
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221936-1

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



Accreditation/Certification Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling


Job ID: 400-221936-1

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

Chain of Custody Record

Client Information			Lab PM: Bruzzio, Taylor M			Carrier Tracking No(s): 400-85109-31845.1																																																																																																																																																														
Client Contact: Brian Morgan			Phone: E-Mail: taylor.bruzzio@testamericainc.com			Page: Page 1 of 1																																																																																																																																																														
Company: Neel-Schaffer, Inc			Due Date Requested:			Job #:																																																																																																																																																														
Address: 210 25th Ave North Suite 800			TAT Requested (days):			Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (specify)																																																																																																																																																														
City: Nashville			Purchase Order Requested			Total Number of Containers																																																																																																																																																														
State, Zip: TN, 37203			PO #:			Special Instructions/Note: *Must set both BOD and CBOD																																																																																																																																																														
Phone: 251-471-2000(Tel)			WO #:			<div style="text-align: center;">  400-221936 COC </div>																																																																																																																																																														
Email: brian.morgan@neel-schaffer.com			Project #: 40010963																																																																																																																																																																	
Mobile MS4 Impaired Stream Sampling			SSOW#:			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)</th> <th>Preservation Code:</th> <th>922D - Coliforms, Fecal</th> <th>9223B - Coliforms, Total and E. coli (QT)</th> <th>SM5210B_CBOB_5D - CBOB</th> <th>ENTEROLERT - Enterococci</th> <th>405.1 - NBOD***</th> <th>365.4 - Phosphorus, Total</th> <th>2540D - TSS</th> </tr> </thead> <tbody> <tr><td>Toulmin Springs Branch</td><td></td><td></td><td>Grab</td><td>Water</td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>UT to Three Mile Creek</td><td></td><td></td><td>Grab</td><td>Water</td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>Three Mile Creek</td><td></td><td></td><td>Grab</td><td>Water</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>Bolton Branch (East)</td><td></td><td></td><td>Grab</td><td>Water</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Halls Mill Creek #1</td><td>6/23/22</td><td>10:19A</td><td>Grab</td><td>Water</td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>Halls Mill Creek #2</td><td>6/23/22</td><td>10:56A</td><td>Grab</td><td>Water</td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td></td></tr> <tr><td>Moore Creek</td><td>6/23/22</td><td>9:22A</td><td>Grab</td><td>Water</td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Bolton Branch (West)</td><td>6/23/22</td><td>9:39A</td><td>Grab</td><td>Water</td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Preservation Code:	922D - Coliforms, Fecal	9223B - Coliforms, Total and E. coli (QT)	SM5210B_CBOB_5D - CBOB	ENTEROLERT - Enterococci	405.1 - NBOD***	365.4 - Phosphorus, Total	2540D - TSS	Toulmin Springs Branch			Grab	Water		X	X				X		UT to Three Mile Creek			Grab	Water		X	X				X		Three Mile Creek			Grab	Water				X	X				Bolton Branch (East)			Grab	Water		X							Halls Mill Creek #1	6/23/22	10:19A	Grab	Water		X	X				X		Halls Mill Creek #2	6/23/22	10:56A	Grab	Water		X	X				X		Moore Creek	6/23/22	9:22A	Grab	Water		X	X						Bolton Branch (West)	6/23/22	9:39A	Grab	Water		X	X																																												
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Preservation Code:				922D - Coliforms, Fecal	9223B - Coliforms, Total and E. coli (QT)	SM5210B_CBOB_5D - CBOB	ENTEROLERT - Enterococci	405.1 - NBOD***	365.4 - Phosphorus, Total	2540D - TSS																																																																																																																																																					
Toulmin Springs Branch			Grab	Water					X	X				X																																																																																																																																																						
UT to Three Mile Creek			Grab	Water					X	X				X																																																																																																																																																						
Three Mile Creek			Grab	Water							X	X																																																																																																																																																								
Bolton Branch (East)			Grab	Water					X																																																																																																																																																											
Halls Mill Creek #1	6/23/22	10:19A	Grab	Water					X	X				X																																																																																																																																																						
Halls Mill Creek #2	6/23/22	10:56A	Grab	Water					X	X				X																																																																																																																																																						
Moore Creek	6/23/22	9:22A	Grab	Water					X	X																																																																																																																																																										
Bolton Branch (West)	6/23/22	9:39A	Grab	Water					X	X																																																																																																																																																										
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Date			Sample Time			Sample Type			Matrix																																																																																																																																																								
			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			Special Instructions/QC Requirements:			Method of Shipment:			Cooler Temperature(s) °C and Other Remarks: 1.2°C FRB																																																																																																																																																								
			Empty Kit Relinquished by: _____ Date: _____			Relinquished by: <u>Craig Parker</u> Date: <u>6/23/22 11:15 AM</u>			Relinquished by: _____ Date: _____			Relinquished by: _____ Date: _____																																																																																																																																																								



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

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	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	

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



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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
QC Association	11
QC Sample Results	13
Chronicle	15
Method Summary	19
Certification Summary	20
Chain of Custody	21
Receipt Checklists	22

Case Narrative

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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	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: 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

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Nitrogenous Biochemical Oxygen Demand	9.1		2.0	2.0	mg/L	1		405.1	Total/NA
Enterococci	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/100mL	1		SM 9222D	Total/NA
Escherichia coli	84	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

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Sample Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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 - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	440		1.0	1.0	CFU/100mL			06/17/22 17:26	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	86	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



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221675-2

Date Collected: 06/17/22 10:06

Matrix: Water

Date Received: 06/17/22 16:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.10		0.10	0.049	mg/L		06/27/22 17:45	06/28/22 15:05	1

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

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

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

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



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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 - Enterococcus by Enterolert (Quantitray)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Enterococci	4.1		1.0	1.0	MPN/100mL			06/17/22 17:13	1

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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, Fecal (Membrane Filter)

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 E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	84	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



Definitions/Glossary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

Qualifiers

General Chemistry

Qualifier	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.
▫	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

QC Association Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

General Chemistry

Prep Batch: 582333

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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221675-2	UT TO THREE MILE CREEK	Total/NA	Water	365.4	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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221675-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	SM 9223	
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	

Eurofins Pensacola

QC Association Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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	



QC Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-582333/1-A
Matrix: Water
Analysis Batch: 582593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	<0.049		0.10	0.049	mg/L		06/22/22 15:56	06/24/22 11:49	1

Lab Sample ID: LCS 400-582333/2-A
Matrix: Water
Analysis Batch: 582593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	2.00	2.15		mg/L		108	75 - 113

Lab Sample ID: MRL 400-582593/10
Matrix: Water
Analysis Batch: 582593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	0.100	0.131		mg/L		131	50 - 150

Lab Sample ID: MB 400-582879/1-A
Matrix: Water
Analysis Batch: 583016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	<0.049		0.10	0.049	mg/L		06/27/22 17:45	06/28/22 14:54	1

Lab Sample ID: LCS 400-582879/2-A
Matrix: Water
Analysis Batch: 583016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	2.00	2.05		mg/L		102	75 - 113

Lab Sample ID: MRL 400-583016/10
Matrix: Water
Analysis Batch: 583016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	0.100	0.124		mg/L		124	50 - 150

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: USB 400-582339/1
Matrix: Water
Analysis Batch: 582339

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			06/18/22 22:23	1

Eurofins Pensacola

QC Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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

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

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbonaceous Biochemical Oxygen Demand	198	222		mg/L		112	85 - 115

Lab Sample ID: 400-221675-B-3 DU
 Matrix: Water
 Analysis Batch: 582339

Client Sample ID: THREE MILE CREEK
 Prep Type: Total/NA

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

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

Lab Sample ID: MB 400-582971/1
 Matrix: Water
 Analysis Batch: 582971

Client Sample ID: Method Blank
 Prep Type: Total/NA

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

Method: SM 922D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-582264/1
 Matrix: Water
 Analysis Batch: 582264

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<1.0		1.0	1.0	CFU/100mL			06/17/22 17:26	1

Lab Sample ID: 400-221675-2 DU
 Matrix: Water
 Analysis Batch: 582264

Client Sample ID: UT TO THREE MILE CREEK
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Coliform, Fecal	940		1200		CFU/100mL		24	50

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

Lab Sample ID: MB 400-582253/1
 Matrix: Water
 Analysis Batch: 582253

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	<1.0		1.0	1.0	MPN/100mL			06/17/22 19:19	1
Coliform, Total	<1.0		1.0	1.0	MPN/100mL			06/17/22 19:19	1

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 400-221675-2

Date Collected: 06/17/22 10:06

Matrix: Water

Date Received: 06/17/22 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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 15:05	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: 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	405.1		1	300 mL	300 mL	582339		DVN	TAL PEN
							(Start)	06/17/22 19:23		
							(End)	06/23/22 16:37		
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	582339		DVN	TAL PEN
							(Start)	06/17/22 19:23		
							(End)	06/23/22 16:37		
Total/NA	Analysis	Enterolert		1			582971	06/17/22 17:13	DVN	TAL PEN

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

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			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

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-582253/1

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	SM 9223		1			582253	06/17/22 19:19	DVN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-582264/1

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	SM 9222D		1			582264		DEK	TAL PEN
								(Start) 06/17/22 17:26		
								(End) 06/18/22 20:20		

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

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

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 11:49	ANE	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

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

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-582971/1

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	Enterolert		1			582971	06/17/22 17:13	DVN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: USB 400-582339/1

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	582339		DVN	TAL PEN
								(Start) 06/18/22 22:23		
								(End) 06/23/22 16:37		

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-582264/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			582264	06/17/22 17:26 (Start) 06/18/22 20:20 (End)	DEK	TAL PEN

Client Sample ID: Lab Control Sample

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

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: LCS 400-582339/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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	582339	06/18/22 22:23 (Start) 06/23/22 16:37 (End)	DVN	TAL PEN

Client Sample ID: Lab Control Sample

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

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: MRL 400-582593/10

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: MRL 400-583016/10

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221675-2 DU

Date Collected: 06/17/22 10:06

Matrix: Water

Date Received: 06/17/22 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			582264	06/17/22 17:26 06/18/22 20:20	DEK	TAL PEN

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	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	405.1		1	300 mL	300 mL	582339	06/17/22 19:23 06/23/22 16:37	DVN	TAL PEN
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	582339	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

Method Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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

Accreditation/Certification Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221675-1

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

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.	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	



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



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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
QC Association	11
QC Sample Results	12
Chronicle	14
Method Summary	17
Certification Summary	18
Chain of Custody	19
Receipt Checklists	20

Case Narrative

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

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.



Detection Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

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	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: 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	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

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Sample Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

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

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, Fecal (Membrane Filter)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	40		1.0	1.0	CFU/100mL			06/24/22 16:33	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	49	H	1.0	1.0	MPN/100mL			06/24/22 19:19	1
Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/24/22 19:19	1



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

Client Sample ID: UT TO THREE MILE CREEK

Lab Sample ID: 400-221998-2

Date Collected: 06/24/22 10:13

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 - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	>2400		1.0	1.0	CFU/100mL			06/24/22 16:33	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	H	1.0	1.0	MPN/100mL			06/24/22 19:19	1
Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/24/22 19:19	1

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

Client Sample ID: THREE MILE CREEK

Lab Sample ID: 400-221998-3

Date Collected: 06/24/22 10:38

Matrix: Water

Date Received: 06/24/22 16:20

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
Nitrogenous Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			06/24/22 18:40	1

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



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

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

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, Total, and E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	150	H	1.0	1.0	MPN/100mL			06/24/22 19:19	1
Coliform, Total	>2400	H	1.0	1.0	MPN/100mL			06/24/22 19:19	1



Definitions/Glossary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

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.
α	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

QC Association Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

General Chemistry

Analysis Batch: 582826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221998-3	THREE MILE CREEK	Total/NA	Water	405.1	
400-221998-3	THREE MILE CREEK	Total/NA	Water	SM5210B CBOD	
USB 400-582826/1	Method Blank	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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221998-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	365.4	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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-221998-1	TOULMIN SPRINGS BRANCH	Total/NA	Water	SM 9222D	
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	

QC Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-583564/1-A
 Matrix: Water
 Analysis Batch: 583727

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 583564

Analyte	MB Result	MB 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 16:57	1

Lab Sample ID: LCS 400-583564/2-A
 Matrix: Water
 Analysis Batch: 583727

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 583564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	2.00	2.02		mg/L		101	75 - 113

Lab Sample ID: MRL 400-583727/11
 Matrix: Water
 Analysis Batch: 583727

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Phosphorus, Total	0.100	0.149		mg/L		149	50 - 150

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: USB 400-582826/1
 Matrix: Water
 Analysis Batch: 582826

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			06/24/22 18:43	1

Lab Sample ID: LCS 400-582826/2
 Matrix: Water
 Analysis Batch: 582826

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbonaceous Biochemical Oxygen Demand	198	176		mg/L		89	85 - 115

Method: Enterolert - Enterococcus by Enterolert (Quantitray)

Lab Sample ID: MB 400-582975/1
 Matrix: Water
 Analysis Batch: 582975

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Enterococci	<1.0		1.0	1.0	MPN/100mL			06/24/22 16:49	1

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

Lab Sample ID: MB 400-582852/1
 Matrix: Water
 Analysis Batch: 582852

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<1.0		1.0	1.0	CFU/100mL			06/24/22 16:33	1

Eurofins Pensacola

QC Sample Results

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

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
Prep Type: Total/NA

Analyte	MB Result	MB 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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 400-221998-2

Date Collected: 06/24/22 10:13

Matrix: Water

Date Received: 06/24/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 400-221998-3

Date Collected: 06/24/22 10:38

Matrix: Water

Date Received: 06/24/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	405.1		1	300 mL	300 mL	582826		DVN	TAL PEN
							(Start)	06/24/22 18:40		
							(End)	06/29/22 14:02		
Total/NA	Analysis	SM5210B CBOD		1	300 mL	300 mL	582826		DVN	TAL PEN
							(Start)	06/24/22 18:40		
							(End)	06/29/22 14:02		
Total/NA	Analysis	Enterolert		1			582975	06/24/22 16:49	DEK	TAL PEN

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

Lab Chronicle

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-582852/1

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	SM 9222D		1			582852	06/24/22 16:33 06/25/22 18:10	DVN	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 400-582975/1

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	Enterolert		1			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9223		1			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

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	582826	06/24/22 18:43 06/29/22 14:02	DVN	TAL PEN

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 400-582826/2

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	582826	06/24/22 18:43 06/29/22 14:02	DVN	TAL PEN

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-582852/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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			582852	06/24/22 16:33 (Start) 06/25/22 18:10 (End)	DVN	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-583564/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 16:31	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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	365.4		1	10 mL	10 mL	583727	07/05/22 16:25	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

Job ID: 400-221998-1

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

Accreditation/Certification Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-221998-1

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

Login Sample Receipt Checklist

Client: Neel-Schaffer Inc

Job Number: 400-221998-1

Login Number: 221998

List Source: Eurofins Pensacola

List Number: 1

Creator: DeKlerk, Michaela

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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



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.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
QC Association	11
QC Sample Results	12
Chronicle	13
Method Summary	15
Certification Summary	16
Chain of Custody	17
Receipt Checklists	18

Case Narrative

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

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	Qualifier	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	D	Method	Prep Type
Coliform, Fecal	250	H	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.

Eurofins Pensacola

Sample Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

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	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 - Coliforms, Fecal (Membrane Filter)

Analyte	Result	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, Total, and E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	180		1.0	1.0	MPN/100mL			06/28/22 17:04	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/28/22 17:04	1



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

Client Sample ID: HALLS MILL CREEK #2

Lab Sample ID: 400-222097-2

Date Collected: 06/28/22 10:51

Matrix: Water

Date Received: 06/28/22 15:30

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 - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	440		1.0	1.0	CFU/100mL			06/28/22 17:41	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	610		1.0	1.0	MPN/100mL			06/28/22 17:04	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/28/22 17:04	1



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

Client Sample ID: MOORE CREEK

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)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	170	H	1.0	1.0	CFU/100mL			06/28/22 17:41	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	220		1.0	1.0	MPN/100mL			06/28/22 17:04	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/28/22 17:04	1



Client Sample Results

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

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

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	250	H	1.0	1.0	CFU/100mL			06/28/22 17:41	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	290		1.0	1.0	MPN/100mL			06/28/22 17:04	1
Coliform, Total	>2400		1.0	1.0	MPN/100mL			06/28/22 17:04	1



Definitions/Glossary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

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.
α	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

QC Association Summary

Client: Neel-Schaffer Inc
Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

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	
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
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

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

Lab Sample ID: MB 400-583173/1
 Matrix: Water
 Analysis Batch: 583173

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB 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	1

Lab Sample ID: LCS 400-583173/2
 Matrix: Water
 Analysis Batch: 583173

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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
 Matrix: Water
 Analysis Batch: 583314

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<1.0		1.0	1.0	CFU/100mL			06/28/22 17:41	1

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

Lab Sample ID: MB 400-583852/1
 Matrix: Water
 Analysis Batch: 583852

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	<1.0		1.0	1.0	MPN/100mL			06/28/22 17:04	1
Coliform, Total	<1.0		1.0	1.0	MPN/100mL			06/28/22 17:04	1

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	(Start) 06/28/22 17:41	DVN	TAL PEN
								(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

Matrix: Water

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 2540D		1	100 mL	100 mL	583173	06/29/22 14:42	VB	TAL PEN
Total/NA	Analysis	SM 9222D		1			583314	(Start) 06/28/22 17:41	DVN	TAL PEN
								(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

Lab Sample ID: 400-222097-3

Date Collected: 06/28/22 09:11

Matrix: Water

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	(Start) 06/28/22 17:41	DVN	TAL PEN
								(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)

Lab Sample ID: 400-222097-4

Date Collected: 06/28/22 09:23

Matrix: Water

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	(Start) 06/28/22 17:41	DVN	TAL PEN
								(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

Lab Sample ID: MB 400-583173/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	1000 mL	100 mL	583173	06/29/22 14:42	VB	TAL PEN

Lab Chronicle

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling

Job ID: 400-222097-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-583314/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

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	06/28/22 17:41 06/29/22 16:59	DVN	TAL PEN

Client Sample ID: Method Blank

Lab Sample ID: MB 400-583852/1

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	100 mL	100 mL	583173	06/29/22 14:42	VB	TAL PEN

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-583314/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

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	06/28/22 17:41 06/29/22 16:59	DVN	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

Job ID: 400-222097-1

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



Accreditation/Certification Summary

Client: Neel-Schaffer Inc
 Project/Site: Mobile MS4 Impaired Stream Sampling


Job ID: 400-222097-1

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

Client Information		Sampler: Craig Parker		Lab P/N: Bruzzio, Taylor M		Carrier Tracking No(s):		COC No: 400-85109-31845-1							
Client Contact: Brian Morgan		Phone:		E-Mail: taylor.bruzzio@testamericainc.com				Page: Page 1 of 1							
Company: Neel-Schaffer, Inc		Address: 210 25th Ave North Suite 800		City: Nashville		State, Zip: TN, 37203		Job #:							
Phone: 251-471-2000(Tel)		PO #: Purchase Order Requested		WO #:		Project #: 40010963		SSOW #:							
Email: brian.morgan@neel-schaffer.com		Project Name: Mobile MS4 Impaired Stream Sampling		Site:		TEST AMERICA INC. 700 - MOBILE									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9222D - Coliforms, Fecal	9223B - Coliforms, Total and E. Coli (CT)	SM5210B_CBOD_50 - CBOD	ENTEROLERT - Enterococci	405.1 - NBOD***	365.4 - Phosphorus, Total	2540D - TSS	Total Number of Containers	Special Instructions/Note:
Toulmin Springs Branch			Grab	Water	X	X	X	X							*Must set both BOD and CBOD
UT to Three Mile Creek			Grab	Water			X	X							
Three Mile Creek			Grab	Water				X							
Bolton Branch (East)			Grab	Water			X	X							
Halls Mill Creek #1	6/28/22	10:03A	Grab	Water			X	X							
Halls Mill Creek #2	6/28/22	10:51A	Grab	Water			X	X							
Moore Creek	6/28/22	9:11A	Grab	Water			X	X							
Bolton Branch (West)	6/28/22	9:23A	Grab	Water			X	X							
															
400-222097 COC															
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)															
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Special Instructions/QC Requirements:															
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____															
Relinquished by: <i>Craig Parker</i> Date/Time: 6/28/22 11:10 AM Company: _____															
Relinquished by: <i>M. P. Padgett</i> Date/Time: 6/28/22 14:00 Company: _____															
Relinquished by: <i>[Signature]</i> Date/Time: 6/28/22 14:00 Company: _____															
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Δ <input type="checkbox"/> No <input type="checkbox"/> Δ <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 0.0.0.0 100															



Login Sample Receipt Checklist

Client: Neel-Schaffer Inc

Job Number: 400-222097-1

Login Number: 222097

List Number: 1

Creator: Perez, Trina M

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	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	