February 24, 2020 Service Request No:J2000980

Mr. Jeremy Parrish
Florida DEP
8800 Baymeadows Way West
Jacksonville, FL 32256-7577

Laboratory Results for: FDEP-NE ROC

Dear Mr.Parrish,

Enclosed are the results of the sample(s) submitted to our laboratory February 20, 2020
For your reference, these analyses have been assigned our service request number **J2000980.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance with the TNI 2016 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Candice Turner
Project Management
Assistant

ADDRESS 9143 Philips Highway, Suite 200, Jacksonville, FL 32256
PHONE +1 904 739 2277 | FAX +1 904 739 2011
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com

9143 Philips Highway, Suite 200, Jacksonville, FL 32256 | 904-739-2277 | www.alsglobal.com

Client: Florida Department of Environmental Protection (DEP)
Service Request: J2000980
Project: FDEP-NE ROC
Date Received: 02/20/2020
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier I level requested by the client.

Sample Receipt:

Five water samples were received for analysis at ALS Environmental on 02/20/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Microbiology:

Method ASTM D6503-99: Sample(s) J2000980 (1-5) were removed from the incubator and read on 2/21/20 1433
Method SM 9222 D: Sample(s) J2000980 (1-5) were removed from the incubator and read on 2/21/20 1337.

Results for sample(s) J2000980 (1,3,4,5) are based on colony counts outside the optimal range of 20-60 CFU. The data has been qualified. This is an informational flag and does not impact the quality of the data.

Approved by Candice Turner Date 02/24/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: 27010183			Lab ID: J2000980-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Enterococcus	130			10	MPN/100mL	ASTM D6503-99
Coliform, Fecal	150	B		1.6	CFU/100mL	SM 9222 D

CLIENT ID: G5NE0588			Lab ID: J2000980-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Enterococcus	52			10	MPN/100mL	ASTM D6503-99
Coliform, Fecal	62			2.0	CFU/100mL	SM 9222 D

CLIENT ID: 27010019			Lab ID: J2000980-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Coliform, Fecal	8.0	B		1.6	CFU/100mL	SM 9222 D

CLIENT ID: 27010165			Lab ID: J2000980-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Coliform, Fecal	26	B		1.6	CFU/100mL	SM 9222 D

CLIENT ID: 27010069			Lab ID: J2000980-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Coliform, Fecal	21	B		1.6	CFU/100mL	SM 9222 D
Enterococcus	20			10	MPN/100mL	ASTM D6503-99

Sample Receipt Information

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com

Client: Florida Department of Environmental Protection (DEP) **Service Request:**J2000980
Project: FDEP-NE ROC/RQ-2020-02-17-20

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J2000980-001	27010183	2/20/2020	0950
J2000980-002	G5NE0588	2/20/2020	1000
J2000980-003	27010019	2/20/2020	1025
J2000980-004	27010165	2/20/2020	1055
J2000980-005	27010069	2/20/2020	1045

J2000980 5

Florida DEP
FDEP-NE ROC

ALS Environmental

Cooler Receipt Form

Client: FDEP Service Request #:

Project: FDEP-NE ROC

Shipping paid by ALS? Yes No (N/A)

Cooler received on 2/20/2020 and opened on 2/20/2020 by LM

COURIER: ALS UPS FEDEX DHL (Client) Other _____ Airbill # _____

1	Were custody seals on outside of cooler?	Yes (No)
	If yes, how many and where?	#:___ on lid other
2	Were seals intact and signature and date correct?	Yes No (N/A)
3	Were custody papers properly filled out?	(Yes) No N/A
4	Temperature of cooler(s) upon receipt (Should be 0°C and ≤ 6°C)	Q2
5	Thermometer ID	T124
6	Temperature Blank Present?	Yes (No)
7	Were Ice or Ice Packs present	(Ice) Ice Packs No
8	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes) No N/A
9	Type of packing material present	Netting Vial Holder Bubble Wrap Paper Styrofoam Other (N/A)
10	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes) No N/A
11	Did all bottle labels and tags agree with custody papers?	(Yes) No N/A
12	Were the correct bottles used for the tests indicated?	(Yes) No N/A
13	Were all of the preserved bottles received with the appropriate preservative? HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2 Preservative additions noted below	Yes No (N/A)
14	Were all samples received within analysis holding times?	(Yes) No N/A
15	Were VOA vials free of air bubbles greater than 6mm? If present, note below	Yes No (N/A)
16	Where did the bottles originate?	ALS (Client)

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J2000980

ALS Contact: Mandy Sullivan

ALS Environmental

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

Page 1 of 1

Client Name	Project Number
FDEP-NE ROC	RQ-2020- 02 - 17 - 20
Report To	**Report CC**
Dep-Overflowmicro@dep.state.fl.us	
Company/Address	
8800 Baymeadows Way W Jacksonville, Fl 32256	
Phone #	**FAX #**
904-256-1700	
Sampler's Signature	**Sampler's Printed Name**
Kelly A McDonald	Kelly A McDonald

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	E.Coli	Enterocooi	F. coli	REMARKS
					Preservative:	8	8	8	
27010183		2/20	0950	SW	2		X	X	Marine
G5NE0588		2/20	1000	SW	2		X	X	Marine
27010019		2/20	1025	SW	2		X	X	Marine
27010165		2/20	1055	SW	2		X	X	Marine
27010069		2/20	1045	SW	2		X	X	marine

Preservative Key
0. None
1. HCL
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4
8. ICE

Special Instructions/Comments: Email Report to: Dep-Overflowmicro@dep.state.fl.us

0.2 C

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
N/A
REQUESTED REPORT DATE
N/A

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

INVOICE INFORMATION
P.O. # B10739
Bill to:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Kelly A McDonald	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Kelly A McDonald	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name: Levi Mason
Firm: FL DEP	Firm:	Firm:	Firm:	Firm:	Firm: ALS
Date/Time: 2/20/2020 1218	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time: 2/20/2020 1223

Miscellaneous Forms

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com

FLORIDA DEP DATA QUALIFIERS

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Jacksonville Lab ID # for State Certifications[1]

Agency	Number	Expiration Date
Department of Defense	66206	6/30/2020
Florida Department of Health	E82502	6/30/2020
Georgia Department of Natural Resources	958	6/30/2020
Kentucky Division of Waste Management	123042	6/30/2020
Louisiana Department of Environmental Quality	02086	6/30/2020
Maine Department of Health and Human Services	2019004	2/3/2021
New York State Department of Health	12113	4/1/2020
North Carolina Department of Environment and Natural Resources	527	12/31/2019
South Carolina Department of Health and Environmental Control	96021001	6/30/2019
Texas Commission on Environmental Quality	T104704197-19-12	5/31/2020
Virginia Environmental Accreditation Program	460191	12/14/2019

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ACRONYMS

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2000980
Project:	FDEP-NE ROC/RQ-2020-02-17-20		

Sample Name:	27010183	**Date Collected:**	02/20/20
Lab Code:	J2000980-001	**Date Received:**	02/20/20
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		ASOTO
SM 9222 D		ASOTO

Sample Name:	G5NE0588	**Date Collected:**	02/20/20
Lab Code:	J2000980-002	**Date Received:**	02/20/20
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		ASOTO
SM 9222 D		ASOTO

Sample Name:	27010019	**Date Collected:**	02/20/20
Lab Code:	J2000980-003	**Date Received:**	02/20/20
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		ASOTO
SM 9222 D		ASOTO

Sample Name:	27010165	**Date Collected:**	02/20/20
Lab Code:	J2000980-004	**Date Received:**	02/20/20
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		ASOTO
SM 9222 D		ASOTO

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2000980
Project:	FDEP-NE ROC/RQ-2020-02-17-20		

Sample Name:	27010069	**Date Collected:**	02/20/20
Lab Code:	J2000980-005	**Date Received:**	02/20/20
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		ASOTO
SM 9222 D		ASOTO

Sample Results

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com

Microbiology

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904)739-2277 Fax (904)739-2011
www.alsglobal.com

Analytical Report

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2000980
Project:	FDEP-NE ROC/RQ-2020-02-17-20	**Date Collected:**	02/20/20 09:50
Sample Matrix:	Water	**Date Received:**	02/20/20 12:23
Sample Name:	27010183	**Basis:**	NA
Lab Code:	J2000980-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Coliform, Fecal	SM 9222 D	**150 B**	CFU/100mL	1.6	1.6	02/20/20 15:03	
Enterococcus	ASTM D6503-99	**130**	MPN/100mL	10	10	02/20/20 14:30	

Analytical Report

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2000980
Project:	FDEP-NE ROC/RQ-2020-02-17-20	**Date Collected:**	02/20/20 10:00
Sample Matrix:	Water	**Date Received:**	02/20/20 12:23
Sample Name:	G5NE0588	**Basis:**	NA
Lab Code:	J2000980-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Coliform, Fecal	SM 9222 D	**62**	CFU/100mL	2.0	2	02/20/20 15:03	
Enterococcus	ASTM D6503-99	**52**	MPN/100mL	10	10	02/20/20 14:30	

Analytical Report

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2000980
Project:	FDEP-NE ROC/RQ-2020-02-17-20	**Date Collected:**	02/20/20 10:25
Sample Matrix:	Water	**Date Received:**	02/20/20 12:23
Sample Name:	27010019	**Basis:**	NA
Lab Code:	J2000980-003		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Coliform, Fecal	SM 9222 D	**8.0**	**B**	CFU/100mL	1.6	1.6	02/20/20 15:03	
Enterococcus	ASTM D6503-99	10	U	MPN/100mL	10	10	02/20/20 14:30	

Analytical Report

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2000980
Project:	FDEP-NE ROC/RQ-2020-02-17-20	**Date Collected:**	02/20/20 10:55
Sample Matrix:	Water	**Date Received:**	02/20/20 12:23
Sample Name:	27010165	**Basis:**	NA
Lab Code:	J2000980-004		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Coliform, Fecal	SM 9222 D	**26**	**B**	CFU/100mL	1.6	1.6	02/20/20 15:03	
Enterococcus	ASTM D6503-99	10	U	MPN/100mL	10	10	02/20/20 14:30	

Analytical Report

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2000980
Project:	FDEP-NE ROC/RQ-2020-02-17-20	**Date Collected:**	02/20/20 10:45
Sample Matrix:	Water	**Date Received:**	02/20/20 12:23
Sample Name:	27010069	**Basis:**	NA
Lab Code:	J2000980-005		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Coliform, Fecal	SM 9222 D	**21 B**	CFU/100mL	1.6	1.6	02/20/20 15:03	
Enterococcus	ASTM D6503-99	**20**	MPN/100mL	10	10	02/20/20 14:30	

QC Summary Forms

ALS Environmental - Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com

Microbiology

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904)739-2277 Fax (904)739-2011
www.alsglobal.com

Analytical Report

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2000980
Project:	FDEP-NE ROC/RQ-2020-02-17-20	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	J2000980-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Coliform, Fecal	SM 9222 D	1.0	U	CFU/100mL	1.0	1	02/20/20 15:03	
Enterococcus	ASTM D6503-99	1.0	U	MPN/100mL	1.0	1	02/20/20 14:30	