



March 18, 2020

Service Request No:J2001481

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 March 16, 2020
For your reference, these analyses have been assigned our service request number **J2001481**.

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

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Jacksonville Laboratory
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www.alsglobal.com



Client: Florida Department of Environmental Protection
(DEP)
Project: FDEP-NE ROC
Sample Matrix: Water

Service Request: J2001481

Date Received: 03/16/2020

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:

Six water samples were received for analysis at ALS Environmental on 03/16/2020. 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) J2001481 (1-4) were removed from the incubator and read on 3/17/20 1534.

Method SM 9223 B: Sample(s) J2001481 (1,5,6) were removed from the incubator and read on 3/17/20 1532.

Approved by CanDice Turner

Date 03/18/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: G4NE0287	Lab ID: J2001481-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	4610			10	MPN/100m L	ASTM D6503-99
Escherichia coli	2810			10	MPN/100m L	SM 9223 B

CLIENT ID: G4NE0290	Lab ID: J2001481-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	97			10	MPN/100m L	ASTM D6503-99

CLIENT ID: G4NE0285	Lab ID: J2001481-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	638			10	MPN/100m L	ASTM D6503-99

CLIENT ID: G4NE0286	Lab ID: J2001481-004
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	1100			10	MPN/100m L	ASTM D6503-99

CLIENT ID: 19020003	Lab ID: J2001481-005
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	167			1.0	MPN/100m L	SM 9223 B

CLIENT ID: G4NE0289	Lab ID: J2001481-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	222			1.0	MPN/100m L	SM 9223 B



Sample Receipt Information

ALS Environmental—Jacksonville Laboratory
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Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com

Client: Florida Department of Environmental Protection (DEP)
Project: FDEP-NE ROC/RQ-2020-03-16-12

Service Request:J2001481

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J2001481-001	G4NE0287	3/16/2020	0930
J2001481-002	G4NE0290	3/16/2020	0950
J2001481-003	G4NE0285	3/16/2020	1005
J2001481-004	G4NE0286	3/16/2020	1030
J2001481-005	19020003	3/16/2020	1100
J2001481-006	G4NE0289	3/16/2020	1150



Cooler Receipt Form

J2001481

5

Florida DEP
FDEP-NE ROC



Client: FDEP

Service Request #:

Project: FDEP-NE ROC

Shipping paid by ALS?

Shipment received on 3/16/2020 and opened on 3/16/2020

by LM

Yes No N/A

COURIER: ALS UPS FEDEX DHL Client Other

Airbill #

Packing Conditions

Custody seals on outside of cooler?

Yes

No

If yes, how many and where?

#: 0,3

on:

lid

other

Were seals intact and signature and date correct?

Yes

No

N/A

Temperature of cooler(s) upon receipt (0-6°C)

0,3

Thermometer ID

T124

Temperature Blank Present?

Yes

No

Temperature preservation?

Ice

Ice Packs

None

Type of packing material present

Bubble Wrap

Netting

Paper

Vial Holder

Styrofoam

Other

N/A

Sample Conditions

If No for any items below, note discrepancies in comments section.

COC properly filled out?

Yes

No

Didn't arrive

Where did the containers originate?

3/16/2020

ALS

Client

All containers arrive in good condition?

Yes

No

All container labels complete?

Yes

No

All container labels agree with custody papers?

Yes

No

N/A

Any samples with unusual characteristics?

Typical

Exceptional

All samples received with sufficient volume?

Yes

No

Correct containers used for the tests indicated?

Yes

No

N/A

All containers received with the appropriate preservative?

Yes

No

N/A

All samples received within analysis holding times?

Yes

No

N/A

VOA vials free of air bubbles greater than 6mm?

Yes

No

N/A

Sample ID	Reagent	Lot #	Exp. Date	mL added	Initials Date/Time

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

Client approval to run samples if discrepancies noted:

Date:



Miscellaneous Forms

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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 Certifications¹

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	FL01294	2/3/2021
New York State Department of Health	12113	4/1/2020
North Carolina Department of Environment and Natural Resources	527	12/31/2020
South Carolina Department of Health and Environmental Control	96021001	6/30/2020
Texas Commission on Environmental Quality	T104704197-20-13	5/31/2020
Virginia Environmental Accreditation Program	460191	12/14/2020

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.

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Analyst Summary report

Client: Florida Department of Environmental Protection (DEP)
Project: FDEP-NE ROC/RQ-2020-03-16-12

Service Request: J2001481

Sample Name: G4NE0287
Lab Code: J2001481-001
Sample Matrix: Water

Date Collected: 03/16/20
Date Received: 03/16/20

Analysis Method
ASTM D6503-99
SM 9223 B

Extracted/Digested By

Analyzed By
ASOTO
ASOTO

Sample Name: G4NE0290
Lab Code: J2001481-002
Sample Matrix: Water

Date Collected: 03/16/20
Date Received: 03/16/20

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ASOTO

Sample Name: G4NE0285
Lab Code: J2001481-003
Sample Matrix: Water

Date Collected: 03/16/20
Date Received: 03/16/20

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ASOTO

Sample Name: G4NE0286
Lab Code: J2001481-004
Sample Matrix: Water

Date Collected: 03/16/20
Date Received: 03/16/20

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ASOTO

ALS Group USA, Corp.

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Analyst Summary report

Client: Florida Department of Environmental Protection (DEP)
Project: FDEP-NE ROC/RQ-2020-03-16-12

Service Request: J2001481

Sample Name: 19020003
Lab Code: J2001481-005
Sample Matrix: Water

Date Collected: 03/16/20**Date Received:** 03/16/20

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
ASOTO

Sample Name: G4NE0289
Lab Code: J2001481-006
Sample Matrix: Water

Date Collected: 03/16/20**Date Received:** 03/16/20

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
ASOTO



Sample Results

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Microbiology

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: FDEP-NE ROC/RQ-2020-03-16-12
Sample Matrix: Water
Sample Name: G4NE0287
Lab Code: J2001481-001

Service Request: J2001481
Date Collected: 03/16/20 09:30
Date Received: 03/16/20 12:53
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	4610	MPN/100mL	10	10	03/16/20 14:34	
Escherichia coli	SM 9223 B	2810	MPN/100mL	10	10	03/16/20 14:44	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: FDEP-NE ROC/RQ-2020-03-16-12
Sample Matrix: Water
Sample Name: G4NE0290
Lab Code: J2001481-002

Service Request: J2001481
Date Collected: 03/16/20 09:50
Date Received: 03/16/20 12:53
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	97	MPN/100mL	10	10	03/16/20 14:34	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: FDEP-NE ROC/RQ-2020-03-16-12
Sample Matrix: Water
Sample Name: G4NE0285
Lab Code: J2001481-003

Service Request: J2001481
Date Collected: 03/16/20 10:05
Date Received: 03/16/20 12:53
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	638	MPN/100mL	10	10	03/16/20 14:34	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: FDEP-NE ROC/RQ-2020-03-16-12
Sample Matrix: Water
Sample Name: G4NE0286
Lab Code: J2001481-004

Service Request: J2001481
Date Collected: 03/16/20 10:30
Date Received: 03/16/20 12:53
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	1100	MPN/100mL	10	10	03/16/20 14:34	

ALS Group USA, Corp.
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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: FDEP-NE ROC/RQ-2020-03-16-12
Sample Matrix: Water
Sample Name: 19020003
Lab Code: J2001481-005

Service Request: J2001481
Date Collected: 03/16/20 11:00
Date Received: 03/16/20 12:53
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	167	MPN/100mL	1.0	1	03/16/20 14:44	

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dba ALS Environmental

Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: FDEP-NE ROC/RQ-2020-03-16-12
Sample Matrix: Water
Sample Name: G4NE0289
Lab Code: J2001481-006

Service Request: J2001481
Date Collected: 03/16/20 11:50
Date Received: 03/16/20 12:53
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	222	MPN/100mL	1.0	1	03/16/20 14:44	



QC Summary Forms

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: FDEP-NE ROC/RQ-2020-03-16-12
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J2001481-MB

Service Request: J2001481
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	1.0 U	MPN/100mL	1.0	1	03/16/20 14:34	
Escherichia coli	SM 9223 B	1.0 U	MPN/100mL	1.0	1	03/16/20 14:44	