



February 01, 2021

Service Request No:J2100344

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

Laboratory Results for: RQ-2021-01-25-11

Dear Mr.Parrish,

Enclosed are the results of the sample(s) submitted to our laboratory January 28, 2021
For your reference, these analyses have been assigned our service request number **J2100344**.

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.

Please contact me if you have any questions. My extension is 4406. You may also contact me via email at Mandy.Sullivan@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mandy Sullivan
Project Manager

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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: RQ-2021-01-25-11
Sample Matrix: Water

Service Request: J2100344

Date Received: 01/28/2021

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:

Seven water samples were received for analysis at ALS Environmental on 01/28/2021. 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 SM 9223 B: Sample(s) were removed from the incubator and read on 1/29/21 1944.

Method SM 9223 B: All Quanti-Tray wells were positive for J2100344-007. Result(s) may be higher than reported, and therefore should be considered estimated.

Approved by

A handwritten signature in black ink, appearing to read 'Wendy S. Nelson', is written over a horizontal line.

Date

02/01/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: 21010051				Lab ID: J2100344-001		
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	1300			1.0	MPN/100m L	SM 9223 B

CLIENT ID: G1NE0940				Lab ID: J2100344-002		
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	1410			1.0	MPN/100m L	SM 9223 B

CLIENT ID: 21010033				Lab ID: J2100344-003		
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	613			1.0	MPN/100m L	SM 9223 B

CLIENT ID: 21020039				Lab ID: J2100344-004		
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	205			1.0	MPN/100m L	SM 9223 B

CLIENT ID: G1NE0939				Lab ID: J2100344-005		
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	201			1.0	MPN/100m L	SM 9223 B

CLIENT ID: 21010054				Lab ID: J2100344-006		
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	687			1.0	MPN/100m L	SM 9223 B

CLIENT ID: 21010016				Lab ID: J2100344-007		
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	> 2420	J		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: RQ-2021-01-25-11

Service Request: J2100344

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J2100344-001	21010051	01/28/2021	1020
J2100344-002	G1NE0940	01/28/2021	1050
J2100344-003	21010033	01/28/2021	1105
J2100344-004	21020039	01/28/2021	1140
J2100344-005	G1NE0939	01/28/2021	1155
J2100344-006	21010054	01/28/2021	1215
J2100344-007	21010016	01/28/2021	1245



Cooler Receipt Form

Client: HOEP Service Request #: J2100344
Project: 20-2021-01-25-11 Shipping paid by ALS? Yes No N/A
Shipment received on 1/28/21 and opened on 1/28/21 by BA
COURIER: ALS UPS FEDEX DHL Client Other _____ Airbill # _____

Packing Conditions

Custody seals on outside of cooler? Yes No
If yes, how many and where? #: _____ on: lid other
Were seals intact and signature and date correct? Yes No N/A

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

Thermometer ID

Temperature Blank Present?

Temperature preservation?

Type of packing material present

Yes No
Ice Ice Packs None
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? 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
Florida Department of Health	E82502	6/30/2021
Georgia Department of Natural Resources	958	6/30/2021
Kentucky Division of Waste Management	123042	6/30/2021
Louisiana Department of Environmental Quality	02086	6/30/2021
Maine Department of Health and Human Services	FL01294	2/3/2021
North Carolina Department of Environment and Natural Resources	527	12/31/2021
Virginia Environmental Accreditation Program	460191	12/14/2021

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.

ALS Group USA, Corp.

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Analyst Summary report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-01-25-11/

Service Request: J2100344

Sample Name: 21010051
Lab Code: J2100344-001
Sample Matrix: Water

Date Collected: 01/28/21**Date Received:** 01/28/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
VSPEARS

Sample Name: G1NE0940
Lab Code: J2100344-002
Sample Matrix: Water

Date Collected: 01/28/21**Date Received:** 01/28/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
VSPEARS

Sample Name: 21010033
Lab Code: J2100344-003
Sample Matrix: Water

Date Collected: 01/28/21**Date Received:** 01/28/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
VSPEARS

Sample Name: 21020039
Lab Code: J2100344-004
Sample Matrix: Water

Date Collected: 01/28/21**Date Received:** 01/28/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
VSPEARS

Sample Name: G1NE0939
Lab Code: J2100344-005
Sample Matrix: Water

Date Collected: 01/28/21**Date Received:** 01/28/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
VSPEARS

ALS Group USA, Corp.

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Analyst Summary report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-01-25-11/

Service Request: J2100344

Sample Name: 21010054
Lab Code: J2100344-006
Sample Matrix: Water

Date Collected: 01/28/21**Date Received:** 01/28/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
VSPEARS

Sample Name: 21010016
Lab Code: J2100344-007
Sample Matrix: Water

Date Collected: 01/28/21**Date Received:** 01/28/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
VSPEARS



Sample Results

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Microbiology

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-01-25-11
Sample Matrix: Water
Sample Name: 21010051
Lab Code: J2100344-001

Service Request: J2100344
Date Collected: 01/28/21 10:20
Date Received: 01/28/21 14:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	1300	MPN/100mL	1.0	1	01/28/21 17:48	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-01-25-11
Sample Matrix: Water
Sample Name: G1NE0940
Lab Code: J2100344-002

Service Request: J2100344
Date Collected: 01/28/21 10:50
Date Received: 01/28/21 14:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	1410	MPN/100mL	1.0	1	01/28/21 17:48	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-01-25-11
Sample Matrix: Water
Sample Name: 21010033
Lab Code: J2100344-003

Service Request: J2100344
Date Collected: 01/28/21 11:05
Date Received: 01/28/21 14:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	613	MPN/100mL	1.0	1	01/28/21 17:48	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-01-25-11
Sample Matrix: Water
Sample Name: 21020039
Lab Code: J2100344-004

Service Request: J2100344
Date Collected: 01/28/21 11:40
Date Received: 01/28/21 14:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	205	MPN/100mL	1.0	1	01/28/21 17:48	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-01-25-11
Sample Matrix: Water
Sample Name: G1NE0939
Lab Code: J2100344-005

Service Request: J2100344
Date Collected: 01/28/21 11:55
Date Received: 01/28/21 14:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	201	MPN/100mL	1.0	1	01/28/21 17:48	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-01-25-11
Sample Matrix: Water
Sample Name: 21010054
Lab Code: J2100344-006

Service Request: J2100344
Date Collected: 01/28/21 12:15
Date Received: 01/28/21 14:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	687	MPN/100mL	1.0	1	01/28/21 17:48	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-01-25-11
Sample Matrix: Water
Sample Name: 21010016
Lab Code: J2100344-007

Service Request: J2100344
Date Collected: 01/28/21 12:45
Date Received: 01/28/21 14:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	> 2420 J	MPN/100mL	1.0	1	01/28/21 17:48	



QC Summary Forms

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-01-25-11
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J2100344-MB

Service Request: J2100344
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	1.0 U	MPN/100mL	1.0	1	01/28/21 17:48	