February 26, 2018 Service Request No:J1801242

Sara Armour
Florida Department of Environmental Protection
Bureau of Laboratories
2600 Blair Stone Road
Tallahassee, FL 32399

Laboratory Results for: FDEP-NE ROC

Dear Sara,

Enclosed are the results of the sample(s) submitted to our laboratory February 19, 2018
For your reference, these analyses have been assigned our service request number **J1801242.**

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 to the NELAC 2003 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

Gina Bondani
Project Manager

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dba ALS Environmental

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Narrative Documents

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

Client: Florida DEP
Project: FDEP-NE ROC/RQ-2018-02-19-10
Sample Matrix: Water

Service Request:J1801242
Date Received:2/19/18

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

6 water samples were received for analysis at ALS Environmental on 2/19/18. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Microbiology Analyses:

ASTM D6503: Incubation end time and sample read time was 2/20/18 1631

Approved by _____ Date 2/26/2018

SAMPLE DETECTION SUMMARY

CLIENT ID: 20030816	Lab ID: J1801242-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Enterococcus	51		10	10	MPN/100m	ASTM

CLIENT ID: 20030072	Lab ID: J1801242-002					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Enterococcus	74		10	10	MPN/100m	ASTM

CLIENT ID: 20030073	Lab ID: J1801242-003					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Enterococcus	30		10	10	MPN/100m	ASTM

CLIENT ID: G2NE1152	Lab ID: J1801242-004					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Enterococcus	41		10	10	MPN/100m	ASTM

CLIENT ID: 20030679	Lab ID: J1801242-005					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Enterococcus	52		10	10	MPN/100m	ASTM

CLIENT ID: 20030814	Lab ID: J1801242-006					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Enterococcus	52		10	10	MPN/100m	ASTM

Sample Receipt Information

ALS Environmental—Jacksonville Laboratory
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Client: Florida DEP **Service Request:**J1801242

Project: FDEP-NE ROC/RQ-2018-02-19-10

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1801242-001	20030816	2/19/2018	1200
J1801242-002	20030072	2/19/2018	1220
J1801242-003	20030073	2/19/2018	1240
J1801242-004	G2NE1152	2/19/2018	1255
J1801242-005	20030679	2/19/2018	1310
J1801242-006	20030814	2/19/2018	1325

ALS Environmental

Cooler Receipt Form

Client: FDEP-NE-JAX Service Request #: 51801242

Project: RQ-2018-0219-10 Shipping paid by ALS?

Cooler received on 02/19/18 and opened on 02/19/18 by MMS Yes (No) N/A

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)	0.2	
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?	~~Yes~~ No	(N/A)
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2 MMS 02/19/18		
	Preservative additions noted below		
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 # 5180 1242
ALS Contact: Jerry Allen

ALS Environmental

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

Client Name	Project Number
FDEP-NE ROC	RQ-2018- 02-19-10
Report To	Report CC
Dep-Overflowmicro@dep.state.fl.us	
Company/Address	
8800 Baymeadows Way W Jacksonville, Fl 32256	
Phone #	FAX #
904-256-1541	
Sampler's Signature	Sampler's Printed Name
Jeremy Parrish	Jeremy Parrish

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

J1801242 5
Florida Department of Environmental Protection
FDEP-NE ROC

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	E.Coli	Enterocooi	Preservative	REMARKS
					eservat	0	0		
20030816		2/15/18	1200	SW	1		X		
20030072			1220	SW	1		X		
20030073			1240	SW	1		X		
~~2003~~ 62NE 1152			1255	SW	1		X		
20030679			1310	SW	1		X		
20030814			1325	SW	1		X		

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

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: Jeremy Parrish	Signature: Michelle Mo	Signature	Signature	Signature	Signature
Printed Name: Jeremy Parrish	Printed Name: Michelle Mo	Printed Name	Printed Name	Printed Name	Printed Name
Firm: FDEP	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 2/19/18 @ 1420	Date/Time: 2/19/18 1420	Date/Time	Date/Time	Date/Time	Date/Time

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 Certifications[1]

Agency	Number	Expiration Date
Department of Defense	66206	7/31/2018
Florida Department of Health	E82502	6/30/2018
Georgia Department of Natural Resources	958	6/30/2018
Kentucky Division of Waste Management	123042	6/30/2018
Louisiana Department of Environmental Quality	02086	6/30/2018
Maine Department of Health and Human Services	2015002	2/3/2019
North Carolina Department of Environment and Natural Resources	527	12/31/2018
Pennsylvania Department of Environmental Protection	68-04835	8/31/2018
South Carolina Department of Health and Environmental Control	96021001	6/30/2018
Texas Commission on Environmental Quality	T104704197-16-8	5/31/2018
Virginia Environmental Accreditation Program	460191	12/14/2018

[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 DEP **Service Request:** J1801242
Project: FDEP-NE ROC/RQ-2018-02-19-10

Sample Name: 20030816 **Date Collected:** 02/19/18
Lab Code: J1801242-001 **Date Received:** 02/19/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		AVONEBERSTEIN

Sample Name: 20030072 **Date Collected:** 02/19/18
Lab Code: J1801242-002 **Date Received:** 02/19/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		AVONEBERSTEIN

Sample Name: 20030073 **Date Collected:** 02/19/18
Lab Code: J1801242-003 **Date Received:** 02/19/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		AVONEBERSTEIN

Sample Name: G2NE1152 **Date Collected:** 02/19/18
Lab Code: J1801242-004 **Date Received:** 02/19/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		AVONEBERSTEIN

Sample Name: 20030679 **Date Collected:** 02/19/18
Lab Code: J1801242-005 **Date Received:** 02/19/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		AVONEBERSTEIN

Client:	Florida DEP	**Service Request:**	J1801242
Project:	FDEP-NE ROC/RQ-2018-02-19-10		

Sample Name:	20030814	**Date Collected:**	02/19/18
Lab Code:	J1801242-006	**Date Received:**	02/19/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		AVONEBERSTEIN

Sample Results

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Microbiology

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Analytical Report

Client:	Florida DEP	**Service Request:**	J1801242
Project:	FDEP-NE ROC/RQ-2018-02-19-10	**Date Collected:**	02/19/18
Sample Matrix:	Water	**Date Received:**	02/19/18
Analysis Method:	ASTM D6503-99	**Units:**	MPN/100mL
		Basis:	NA

Enterococcus

Sample Name	Lab Code	Result	PQL	Dil.	Date Analyzed	Q
20030816	J1801242-001	**51**	10	10	02/19/18 16:18	
20030072	J1801242-002	**74**	10	10	02/19/18 16:18	
20030073	J1801242-003	**30**	10	10	02/19/18 16:18	
G2NE1152	J1801242-004	**41**	10	10	02/19/18 16:18	
20030679	J1801242-005	**52**	10	10	02/19/18 16:18	
20030814	J1801242-006	**52**	10	10	02/19/18 16:18	
Method Blank	J1801242-MB	1.0 U	1.0	1	02/19/18 14:58	