December 19, 2018 Service Request No:J1808846

Mr. Jeremy Parrish
Florida DEP
7825 Baymeadows Way, Suite 200-B
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 December 18, 2018
For your reference, these analyses have been assigned our service request number **J1808846.**

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.

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

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

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Client: Florida DEP
Project: FDEP-NE ROC/RQ-2018-11-26-13
Sample Matrix: Water

Service Request:J1808846
Date Received:12/18/18

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

One water sample was received for analysis at ALS Environmental on 12/18/18. 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:

Method SM9223B: Sample J1808846-001 was removed from the incubator and read on 12/19/18 at 16:07.

Approved by _____ Date 12/19/2018

SAMPLE DETECTION SUMMARY

CLIENT ID: 20030802			Lab ID: J1808846-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Escherichia coli	97		10	10	MPN/100mL	SM 9223 B

Sample Receipt Information

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Client: Florida DEP **Service Request:**J1808846

Project: FDEP-NE ROC/RQ-2018-11-26-13

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1808846-001	20030802	12/18/2018	1020

ALS Environmental

Cooler Receipt Form

Client: FDEP Service Request #: J1808846

Project: FDEP-NE ROC Shipping paid by ALS?

Cooler received on 12.18.18 and opened on 12.18.18 by KB 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)	0.5°C
5	Thermometer ID	TT24
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

J1808846

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Florida DEP
FDEP NE ROC

ALS Environmental

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Client Name	Project Number
FDEP-NE ROC	RQ-2018-11-20-13
Report To	**Report CC**
Dep-Overflowmicro@dep.state.fl.us	E J Peacock
Company/Address	
8800 Baymeadows Way W Jacksonville, Fl 32256	
Phone #	**FAX #**
904-256-1541	
Sampler's Signature	**Sampler's Printed Name**
B-T-	Brian Davis

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	E.Coli	Enterococci	Preservative Key / REMARKS
					Preservat	0	0	Preservative Key
2C030802		12/5/18	1020	SW	1	1		

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

REMARKS

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

0.5°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: B-T-	Signature:	Signature	Signature	Signature	Signature
Printed Name: Brian Davis	Printed Name: KAYLA BLACKWELL	Printed Name	Printed Name	Printed Name	Printed Name
Firm: DEP DEAR	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 12/6/18 1208	Date/Time: 12.18.18/1207	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	6/30/2020
Florida Department of Health	E82502	6/30/2019
Georgia Department of Natural Resources	958	6/30/2019
Kentucky Division of Waste Management	123042	6/30/2019
Louisiana Department of Environmental Quality	02086	6/30/2019
Maine Department of Health and Human Services	2017003	2/3/2019
North Carolina Department of Environment and Natural Resources	527	12/31/2018
South Carolina Department of Health and Environmental Control	96021001	6/30/2018
Texas Commission on Environmental Quality	T104704197-18-10	5/31/2019
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:**	J1808846
Project:	FDEP-NE ROC/RQ-2018-11-26-13		

Sample Name:	20030802	**Date Collected:**	12/18/18
Lab Code:	J1808846-001	**Date Received:**	12/18/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 9223 B		HHERNANDEZ

Sample Results

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Microbiology

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Analytical Report

Client:	Florida DEP	**Service Request:**	J1808846
Project:	FDEP-NE ROC/RQ-2018-11-26-13	**Date Collected:**	12/18/18 10:20
Sample Matrix:	Water	**Date Received:**	12/18/18 12:07
Sample Name:	20030802	**Basis:**	NA
Lab Code:	J1808846-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	**97**	MPN/100mL	10	10	12/18/18 13:20	

QC Summary Forms

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Microbiology

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Analytical Report

Client:	Florida DEP	**Service Request:**	J1808846
Project:	FDEP-NE ROC/RQ-2018-11-26-13	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	J1808846-MB		

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	12/18/18 13:20	