



October 23, 2019

Service Request No:J1906346

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

Laboratory Results for: BMAP 1

Dear Mr.Parrish,

Enclosed are the results of the sample(s) submitted to our laboratory October 21, 2019
For your reference, these analyses have been assigned our service request number **J1906346**.

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
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)
Project: BMAP 1
Sample Matrix: Water

Service Request: J1906346

Date Received: 10/21/2019

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:

Four water samples were received for analysis at ALS Environmental on 10/21/2019. 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) J1906346 (2 AND 3) were removed from the incubator and read on 10/22/19 1527.

Method ASTM D6503-99: All Quanti-Tray wells were positive for J1906346-002. Result(s) may be higher than reported, and therefore should be considered estimated.

Method SM 9223 B: Sample(s) J1906346 (1 AND 4) were removed from the incubator and read on 10/22/19 1529.

Approved by 

Date 10/23/2019

SAMPLE DETECTION SUMMARY

CLIENT ID: 20030082			Lab ID: J1906346-001			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	613			1.0	MPN/100m L	SM 9223 B

CLIENT ID: 20030793			Lab ID: J1906346-002			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	> 2419.6	J		1.0	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030958			Lab ID: J1906346-003			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	980			1.0	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030891			Lab ID: J1906346-004			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	196			1.0	MPN/100m L	SM 9223 B



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)
Project: BMAP 1/RQ-2019-10-14-18

Service Request:J1906346

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1906346-001	20030082	10/21/2019	0945
J1906346-002	20030793	10/21/2019	1030
J1906346-003	20030958	10/21/2019	1040
J1906346-004	20030891	10/21/2019	1115



Cooler Receipt Form

J1906346

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Florida DEP
BMAP 1Client: FL Dep Env. Protect.

Service Request #:

Project: BMAP 1

Shipping paid by ALS?

Cooler received on 10/21/19 and opened on 10/21/19 by LMYes No N/ACOURIER: 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) 1.4
- 5 Thermometer ID T188
- 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:



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	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.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Florida Department of Environmental Protection (DEP)
Project: BMAP 1/RQ-2019-10-14-18

Service Request: J1906346

Sample Name: 20030082
Lab Code: J1906346-001
Sample Matrix: Water

Date Collected: 10/21/19**Date Received:** 10/21/19

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
ASOTO

Sample Name: 20030793
Lab Code: J1906346-002
Sample Matrix: Water

Date Collected: 10/21/19**Date Received:** 10/21/19

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ASOTO

Sample Name: 20030958
Lab Code: J1906346-003
Sample Matrix: Water

Date Collected: 10/21/19**Date Received:** 10/21/19

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ASOTO

Sample Name: 20030891
Lab Code: J1906346-004
Sample Matrix: Water

Date Collected: 10/21/19**Date Received:** 10/21/19

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: BMAP 1/RQ-2019-10-14-18
Sample Matrix: Water
Sample Name: 20030793
Lab Code: J1906346-002

Service Request: J1906346
Date Collected: 10/21/19 10:30
Date Received: 10/21/19 11:38
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	> 2419.6 J	MPN/100mL	1.0	1	10/21/19 14:42	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: BMAP 1/RQ-2019-10-14-18
Sample Matrix: Water
Sample Name: 20030958
Lab Code: J1906346-003

Service Request: J1906346
Date Collected: 10/21/19 10:40
Date Received: 10/21/19 11:38
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	980	MPN/100mL	1.0	1	10/21/19 14:42	

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dba ALS Environmental

Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: BMAP 1/RQ-2019-10-14-18
Sample Matrix: Water
Sample Name: 20030082
Lab Code: J1906346-001

Service Request: J1906346
Date Collected: 10/21/19 09:45
Date Received: 10/21/19 11:38
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	10/21/19 15:00	

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: BMAP 1/RQ-2019-10-14-18
Sample Matrix: Water
Sample Name: 20030891
Lab Code: J1906346-004

Service Request: J1906346
Date Collected: 10/21/19 11:15
Date Received: 10/21/19 11:38
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	196	MPN/100mL	1.0	1	10/21/19 15:00	



QC Summary Forms

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Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: BMAP 1/RQ-2019-10-14-18
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1906346-MB

Service Request: J1906346
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	10/21/19 14:42	
Escherichia coli	SM 9223 B	1.0 U	MPN/100mL	1.0	1	10/21/19 15:00	