



December 18, 2017

Service Request No:J1708451

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

Laboratory Results for: BMAP Tributaries

Dear Sara,

Enclosed are the results of the sample(s) submitted to our laboratory December 12, 2017
For your reference, these analyses have been assigned our service request number **J1708451**.

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

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



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 DEP
Project: BMAP Tributaries/RQ2017-12-11-10

Service Request:J1708451

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1708451-001	G2NE0899 12112017	12/12/2017	0900
J1708451-002	G2NE0801 12112017	12/12/2017	0925
J1708451-003	G2NE0966 12112017	12/12/2017	0940
J1708451-004	G2NE0961 12112017	12/12/2017	1045
J1708451-005	G2NE0959 12112017	12/12/2017	1015
J1708451-006	G2NE0089 12112017	12/12/2017	1100
J1708451-007	G2NE0760 12112017	12/12/2017	1125

Cooler Receipt Form

Client: FDEP Service Request #: 51708451
 Project: BMAP Tributaries Shipping paid by ALS? Yes No N/A
 Cooler received on 12/12/17 and opened on 12/12/17 by KUR
 COURIER: ALS UPS FEDEX DHL Client Other _____ Airbill # _____

- | | | | | |
|----|---|-------------|---------------|------------------|
| 1 | Were custody seals on outside of cooler? | Yes | <u>No</u> | |
| | If yes, how many and where? | #: | on lid | other |
| 2 | Were seals intact and signature and date correct? | Yes | No | <u>N/A</u> |
| 3 | Were custody papers properly filled out? | <u>Yes</u> | No | N/A |
| 4 | Temperature of cooler(s) upon receipt (Should be 0°C and ≤ 6°C) | <u>1.2</u> | | |
| 5 | Thermometer ID | <u>T124</u> | | |
| 6 | Temperature Blank Present? | Yes | <u>No</u> | |
| 7 | Were Ice or Ice Packs present | <u>Ice</u> | Ice Packs | No |
| 8 | Did all bottles arrive in good condition (unbroken, etc....)? | <u>Yes</u> | No | N/A |
| 9 | Type of packing material present | Netting | Vial Holder | Bubble Wrap |
| | | Paper | Styrofoam | Other <u>N/A</u> |
| 10 | Were all bottle labels complete (sample ID, preservation, etc....)? | <u>Yes</u> | No | N/A |
| 11 | Did all bottle labels and tags agree with custody papers? | <u>Yes</u> | No | N/A |
| 12 | Were the correct bottles used for the tests indicated? | <u>Yes</u> | No | <u>N/A</u> |
| 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 | | | |
| | Preservative additions noted below | | | |
| 14 | Were all samples received within analysis holding times? | <u>Yes</u> | No | N/A |
| 15 | Were VOA vials free of air bubbles greater than 6mm? If present, note below | Yes | No | <u>N/A</u> |
| 16 | Where did the bottles originate? | ALS | <u>Client</u> | |

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

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SR# 5708451
CAS Contract

Project Name BMAP Tributaries		Project Number RQ2017-12-11-10		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																					
Project Manager Jeremy Parrish		Email Address jeremy.parrish@dep.state.fl.us		PRESERVATIVE 8																					
Company/Address FDEP				NUMBER OF CONTAINERS E. Coli		J1708451 Florida Department of Environmental Protection BMAP Tributaries  5																			
8800 Baymeadows Way W STE B100																									
Jacksonville, FL 32256																									
Phone # 904-256-1700		FAX #																							
Sampler's Signature Nicole K...		Sampler's Printed Name Nicole Frederick																							
CLIENT SAMPLE ID		LAB ID		SAMPLING DATE		TIME		MATRIX																	
G2NE0899 12112017				12/17		0900		SW		X															
G2NE0801 12112017				↓		0925		↓		X															
G2NE0966 12112017				↓		0940		↓		X															
G2NE0961 12112017				↓		1045		↓		X															
G2NE0959 12112017				↓		1015		↓		X															
G2NE0089 12112017				↓		1100		↓		X															
G2NE0760 12112017				↓		1125		↓		X															
SPECIAL INSTRUCTIONS/COMMENTS Dep-Overfblw micro@ dep.state.fl.us														TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) ☒ STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE				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 V. Specialized Forms / Custom Report Edata Yes No				INVOICE INFORMATION PO # BILL TO:			
SAMPLE RECEIPT: CONDITION/COOLER TEMP: 1.2 CUSTODY SEALS: Y (N)																									
RELINQUISHED BY Jeremy Parrish		RECEIVED BY Matthew R...		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY											
Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature											
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name											
Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm											
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time											
12/17/17 0900		12/17/17 1200																							



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	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	12/31/2017
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.



Sample Results

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Microbiology

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Analytical Report

Client: Florida DEP
Project: BMAP Tributaries/RQ2017-12-11-10
Sample Matrix: Water
Analysis Method: SM 9223 B

Service Request: J1708451
Date Collected: 12/12/17
Date Received: 12/12/17
Units: MPN/100mL
Basis: NA

Escherichia coli

Sample Name	Lab Code	Result	PQL	Dil.	Date Analyzed	Q
G2NE0899 12112017	J1708451-001	495	10	10	12/12/17 15:20	
G2NE0801 12112017	J1708451-002	627	10	10	12/12/17 15:20	
G2NE0966 12112017	J1708451-003	712	10	10	12/12/17 15:20	
G2NE0961 12112017	J1708451-004	689	10	10	12/12/17 15:20	
G2NE0959 12112017	J1708451-005	1850	10	10	12/12/17 15:20	
G2NE0089 12112017	J1708451-006	2250	10	10	12/12/17 15:20	
G2NE0760 12112017	J1708451-007	3450	10	10	12/12/17 15:20	
Method Blank	J1708451-MB	1.0 U	1.0	1	12/12/17 15:20	