



September 29, 2017

Service Request No:J1706509

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

Laboratory Results for: LSJR Coast

Dear Sara,

Enclosed are the results of the sample(s) submitted to our laboratory September 27, 2017
For your reference, these analyses have been assigned our service request number **J1706509**.

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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Table of Contents

CoverLetter	1
Table of Contents	2
Narrative Documents	4
Narrative Documents	5
Hit Summary List	6
Sample Receipt Information	7
Sample Cross-Reference	8
Chain Of Custody	9
Miscellaneous Forms	11
Qualifiers	12
Acronyms	14
Analyst Summary	15
Sample Results	16
Microbiology	17
ASTM D6503-99 - General Chemistry Parameters	
20030695 - Microbiology	18
20030758 - Microbiology	19
G2NE1137 - Microbiology	20
G2NE1136 - Microbiology	21
27010002 - Microbiology	22
QC Summary Forms	23
Microbiology	24

Table of Contents (continued)

ASTM D6503-99 - General Chemistry Parameters	
Method Blank - Microbiology	25



Narrative Documents

ALS Environmental—Jacksonville Laboratory
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Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com

Client: Florida DEP
Project: LSJR Coast/RQ-2017-09-25-08
Sample Matrix: Water

Service Request: J1706509
Date Received: 9/27/17

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

5 water samples were received for analysis at ALS Environmental on 9/27/17. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $\leq 6^{\circ}\text{C}$ 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 9/28/17 16:50.

Approved by  Date 9/29/2017

SAMPLE DETECTION SUMMARY

CLIENT ID: 20030695		Lab ID: J1706509-001				
Analyte	Results	Flag	MDL	PQL	Units	Method
Enterococcus	20		10	10	MPN/100m	ASTM
CLIENT ID: 20030758		Lab ID: J1706509-002				
Analyte	Results	Flag	MDL	PQL	Units	Method
Enterococcus	85		10	10	MPN/100m	ASTM
CLIENT ID: G2NE1137		Lab ID: J1706509-003				
Analyte	Results	Flag	MDL	PQL	Units	Method
Enterococcus	10		10	10	MPN/100m	ASTM
CLIENT ID: G2NE1136		Lab ID: J1706509-004				
Analyte	Results	Flag	MDL	PQL	Units	Method
Enterococcus	20		10	10	MPN/100m	ASTM
CLIENT ID: 27010002		Lab ID: J1706509-005				
Analyte	Results	Flag	MDL	PQL	Units	Method
Enterococcus	10		10	10	MPN/100m	ASTM



Sample Receipt Information

ALS Environmental—Jacksonville Laboratory
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Client: Florida DEP
Project: LSJR Coast/RQ-2017-09-25-08

Service Request:J1706509

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1706509-001	20030695	9/27/2017	1150
J1706509-002	20030758	9/27/2017	1050
J1706509-003	G2NE1137	9/27/2017	0930
J1706509-004	G2NE1136	9/27/2017	1130
J1706509-005	27010002	9/27/2017	0950

Cooler Receipt Form

Client: Florida DEP Service Request #: 51706509
 Project: LSSR Coast Shipping paid by ALS? Yes No N/A
 Cooler received on 9/27/12 and opened on 9/27/12 by RY
 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) 3.9
 5 Thermometer ID TL38
- 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

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE _____ OF _____

SR#

51706509

CAS Contract

Project Name LSJR Coast		Project Number RQ-2017-09-25-08		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																					
Project Manager Jeremy Palish		Email Address DEP.State@FL.DEM		PRESERVATIVE																					
Company/Address FDEP DEAR NEB 8800 Bynerdows Way W Suite 100 Jacksonville FL, 32256				NUMBER OF CONTAINERS Enter	J1706509 Florida Department of Environmental Protection LSJR Coast 												Preservative Key 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____								
Phone # 904-256-1700		FAX #																							
Sampler's Signature [Signature]		Sampler's Printed Name Briggs Davis																							
CLIENT SAMPLE ID		LAB ID		SAMPLING DATE		TIME		MATRIX		REMARKS/ ALTERNATE DESCRIPTION															
20030695				9/27/17		1150		SW																	
20030758						1050																			
G2NE1137						930																			
G2NE1136						1130																			
27010002						950																			
SPECIAL INSTRUCTIONS/COMMENTS														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: _____			
See QAPP ☐																									
SAMPLE RECEIPT: CONDITION/COOLER TEMP: 3.9														CUSTODY SEALS: Y N											
RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY					
Signature [Signature]				Signature [Signature]				Signature				Signature				Signature				Signature					
Printed Name Briggs Davis				Printed Name Gina Borden				Printed Name				Printed Name				Printed Name				Printed Name					
Firm FDEP DEAR				Firm ALS				Firm				Firm				Firm				Firm					
Date/Time 9/27/17 1215				Date/Time 9/27/17 1215				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 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	12/14/2017

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 DEP
Project: LSJR Coast/RQ-2017-09-25-08

Service Request: J1706509

Sample Name: 20030695
Lab Code: J1706509-001
Sample Matrix: Water

Date Collected: 09/27/17**Date Received:** 09/27/17

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
AVONEBERSTEIN

Sample Name: 20030758
Lab Code: J1706509-002
Sample Matrix: Water

Date Collected: 09/27/17**Date Received:** 09/27/17

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
AVONEBERSTEIN

Sample Name: G2NE1137
Lab Code: J1706509-003
Sample Matrix: Water

Date Collected: 09/27/17**Date Received:** 09/27/17

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
AVONEBERSTEIN

Sample Name: G2NE1136
Lab Code: J1706509-004
Sample Matrix: Water

Date Collected: 09/27/17**Date Received:** 09/27/17

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
AVONEBERSTEIN

Sample Name: 27010002
Lab Code: J1706509-005
Sample Matrix: Water

Date Collected: 09/27/17**Date Received:** 09/27/17

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
AVONEBERSTEIN



Sample Results

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dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Coast/RQ-2017-09-25-08
Sample Matrix: Water
Sample Name: 20030695
Lab Code: J1706509-001

Service Request: J1706509
Date Collected: 09/27/17 11:50
Date Received: 09/27/17 12:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	20	MPN/100mL	10	10	09/27/17 14:04	

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dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Coast/RQ-2017-09-25-08
Sample Matrix: Water
Sample Name: 20030758
Lab Code: J1706509-002

Service Request: J1706509
Date Collected: 09/27/17 10:50
Date Received: 09/27/17 12:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	85	MPN/100mL	10	10	09/27/17 14:04	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Coast/RQ-2017-09-25-08
Sample Matrix: Water
Sample Name: G2NE1137
Lab Code: J1706509-003

Service Request: J1706509
Date Collected: 09/27/17 09:30
Date Received: 09/27/17 12:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	10	MPN/100mL	10	10	09/27/17 14:04	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Coast/RQ-2017-09-25-08
Sample Matrix: Water
Sample Name: G2NE1136
Lab Code: J1706509-004

Service Request: J1706509
Date Collected: 09/27/17 11:30
Date Received: 09/27/17 12:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	20	MPN/100mL	10	10	09/27/17 14:04	

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dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Coast/RQ-2017-09-25-08
Sample Matrix: Water
Sample Name: 27010002
Lab Code: J1706509-005

Service Request: J1706509
Date Collected: 09/27/17 09:50
Date Received: 09/27/17 12:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	10	MPN/100mL	10	10	09/27/17 14:04	



QC Summary Forms

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dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Coast/RQ-2017-09-25-08
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1706509-MB

Service Request: J1706509
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	1.0 U	MPN/100mL	1.0	1	09/27/17 14:04	