



May 03, 2019

Service Request No:J1802765

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

Laboratory Results for: LSJR Downtown Salt Boat

Dear Sara,

Enclosed are the results of the sample(s) submitted to our laboratory April 17, 2018
For your reference, these analyses have been assigned our service request number **J1802765**.

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

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PHONE +1 904 739 2277 | FAX +1 904 739 2011
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 DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53
Sample Matrix: Water

Service Request: J1802765
Date Received: 4/17/18

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

Seven water samples were received for analysis at ALS Environmental on 4/17/18. 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 4/18/18 1652.

ASTM D6503: Incubation period exceeded method limit by less than one hour.

Revision Notes:

This analytical report is a revision of the original report generated on 4/19/2018 @ 1012am. The following specific changes were made to the report: Case narrative added to ASTM D6503 and Q qualifier removed (hold times were met)

Revision 2 Notes:

This analytical report is a revision of the first revised report generated on 07/14/2018. The following specific changes were made to the report: J qualifiers added due to incubation period.

Revision 3 Notes:

This analytical report is a revision of the second revised report generated on 7/20/2018. The following specific changes were made to the report: Case narrative form was added to the report.

Approved by  Date 5/3/2019

SAMPLE DETECTION SUMMARY

CLIENT ID: 20030814			Lab ID: J1802765-001			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	10	J		10	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030679			Lab ID: J1802765-002			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	31	J		10	MPN/100m L	ASTM D6503-99

CLIENT ID: G2NE1152			Lab ID: J1802765-003			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	41	J		10	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030073			Lab ID: J1802765-004			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	52	J		10	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030072DUP			Lab ID: J1802765-005			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	110	J		10	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030072			Lab ID: J1802765-006			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	41	J		10	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030816			Lab ID: J1802765-007			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	120	J		10	MPN/100m L	ASTM D6503-99



Sample Receipt Information

ALS Environmental—Jacksonville Laboratory
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www.alsglobal.com

Client: Florida DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53

Service Request:J1802765

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1802765-001	20030814	4/17/2018	1205
J1802765-002	20030679	4/17/2018	1145
J1802765-003	G2NE1152	4/17/2018	1125
J1802765-004	20030073	4/17/2018	1100
J1802765-005	20030072DUP	4/17/2018	1030
J1802765-006	20030072	4/17/2018	1015
J1802765-007	20030816	4/17/2018	0950

Cooler Receipt Form

Client: FDEP Service Request #: J1802765
 Project: LSSR Downtown Shipping paid by ALS? Yes No N/A
 Cooler received on 4/17/18 and opened on 4/17/18 by RT
 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 N/A
- 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) 4.2
 Thermometer ID 1138
- 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 RT 4/17/18

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# J1802765
CAS Contract

Project Name <u>LSTR Downtown Salt Boat</u>		Project Number <u>RQ-2018-04-09-53</u>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																					
Project Manager <u>J. Pechish</u>		Email Address <u>VEP-OverFlowmick@DEP.state.fl.us</u>		PRESERVATIVE																					
Company/Address <u>FDEP DEAR NE</u> <u>8800 Byrnedowns Way W Suite 100</u> <u>Jax, FL 32256</u>		Phone # <u>904-256-1541</u>		FAX #		NUMBER OF CONTAINERS Enter J1802765 Florida Department of Environmental Protection LSJR Downtown Salt Boat  5																			
Sampler's Signature <u>[Signature]</u>		Sampler's Printed Name <u>Eniang Davis</u>																							
CLIENT SAMPLE ID		LAB ID		SAMPLING DATE		TIME		MATRIX		REMARKS/ ALTERNATE DESCRIPTION															
<u>20030814</u>				<u>4/17/18</u>		<u>1205</u>		<u>SW</u>																	
<u>20030679</u>						<u>1145</u>																			
<u>G-2NE1152</u>						<u>1125</u>																			
<u>20030073</u>						<u>1100</u>																			
<u>20030072 Dup</u>						<u>1030</u>																			
<u>20030072</u>						<u>1015</u>																			
<u>20030816</u>						<u>950</u>																			
SPECIAL INSTRUCTIONS/COMMENTS See QAPP ☐										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: <u>4.2</u>										CUSTODY SEALS: Y N															
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY											
Signature <u>[Signature]</u>		Signature <u>[Signature]</u>		Signature		Signature		Signature		Signature		Signature		Signature											
Printed Name <u>Eniang Davis</u>		Printed Name <u>Reece Futch</u>		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name											
Firm <u>FDEP DEAR NE</u>		Firm <u>ALS</u>		Firm		Firm		Firm		Firm		Firm		Firm											
Date/Time <u>4/17/18 1420</u>		Date/Time <u>4/17/18 1420</u>		Date/Time		Date/Time		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	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	12/31/2019
South Carolina Department of Health and Environmental Control	96021001	6/30/2019
Texas Commission on Environmental Quality	T104704197-18-10	5/31/2019
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 DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53

Service Request: J1802765

Sample Name: 20030814
Lab Code: J1802765-001
Sample Matrix: Water

Date Collected: 04/17/18**Date Received:** 04/17/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
VSPEARS

Sample Name: 20030679
Lab Code: J1802765-002
Sample Matrix: Water

Date Collected: 04/17/18**Date Received:** 04/17/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
VSPEARS

Sample Name: G2NE1152
Lab Code: J1802765-003
Sample Matrix: Water

Date Collected: 04/17/18**Date Received:** 04/17/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
VSPEARS

Sample Name: 20030073
Lab Code: J1802765-004
Sample Matrix: Water

Date Collected: 04/17/18**Date Received:** 04/17/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
VSPEARS

Sample Name: 20030072DUP
Lab Code: J1802765-005
Sample Matrix: Water

Date Collected: 04/17/18**Date Received:** 04/17/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
VSPEARS

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Florida DEP**Service Request:** J1802765**Project:** LSJR Downtown Salt Boat/RQ-2018-04-09-53**Sample Name:** 20030072**Date Collected:** 04/17/18**Lab Code:** J1802765-006**Date Received:** 04/17/18**Sample Matrix:** Water**Analysis Method****Extracted/Digested By****Analyzed By**

ASTM D6503-99

VSPEARS

Sample Name: 20030816**Date Collected:** 04/17/18**Lab Code:** J1802765-007**Date Received:** 04/17/18**Sample Matrix:** Water**Analysis Method****Extracted/Digested By****Analyzed By**

ASTM D6503-99

VSPEARS



Sample Results

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Microbiology

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53
Sample Matrix: Water
Sample Name: 20030814
Lab Code: J1802765-001

Service Request: J1802765
Date Collected: 04/17/18 12:05
Date Received: 04/17/18 14:20
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	10 J	MPN/100mL	10	10	04/17/18 16:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53
Sample Matrix: Water
Sample Name: 20030679
Lab Code: J1802765-002

Service Request: J1802765
Date Collected: 04/17/18 11:45
Date Received: 04/17/18 14:20
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	31 J	MPN/100mL	10	10	04/17/18 16:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53
Sample Matrix: Water
Sample Name: G2NE1152
Lab Code: J1802765-003

Service Request: J1802765
Date Collected: 04/17/18 11:25
Date Received: 04/17/18 14:20
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	41 J	MPN/100mL	10	10	04/17/18 16:42	

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dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53
Sample Matrix: Water
Sample Name: 20030073
Lab Code: J1802765-004

Service Request: J1802765
Date Collected: 04/17/18 11:00
Date Received: 04/17/18 14:20
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	52 J	MPN/100mL	10	10	04/17/18 16:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53
Sample Matrix: Water
Sample Name: 20030072DUP
Lab Code: J1802765-005

Service Request: J1802765
Date Collected: 04/17/18 10:30
Date Received: 04/17/18 14:20
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	110 J	MPN/100mL	10	10	04/17/18 16:42	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53
Sample Matrix: Water
Sample Name: 20030072
Lab Code: J1802765-006

Service Request: J1802765
Date Collected: 04/17/18 10:15
Date Received: 04/17/18 14:20
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	41 J	MPN/100mL	10	10	04/17/18 16:42	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53
Sample Matrix: Water
Sample Name: 20030816
Lab Code: J1802765-007

Service Request: J1802765
Date Collected: 04/17/18 09:50
Date Received: 04/17/18 14:20
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	120 J	MPN/100mL	10	10	04/17/18 16:42	*



QC Summary Forms

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Analytical Report

Client: Florida DEP
Project: LSJR Downtown Salt Boat/RQ-2018-04-09-53
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1802765-MB

Service Request: J1802765
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	04/17/18 16:42	