



July 17, 2018

Service Request No:J1804987

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

Laboratory Results for: LSJR North Salt

Dear Sara,

Enclosed are the results of the sample(s) submitted to our laboratory July 11, 2018
For your reference, these analyses have been assigned our service request number **J1804987**.

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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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 North Salt/2018-06-25-06
Sample Matrix: Water

Service Request: J1804987
Date Received: 7/11/18

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

6 water samples were received for analysis at ALS Environmental on 7/11/18. 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: Samples were pulled from the incubator and read at 7/12/18 18:38.

Approved by  Date 7/17/2018

SAMPLE DETECTION SUMMARY

CLIENT ID: 20030114	Lab ID: J1804987-001
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	320		10	10	MPN/100m L	ASTM D6503-99

CLIENT ID: G2NE1161	Lab ID: J1804987-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	220		10	10	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030129	Lab ID: J1804987-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	84		10	10	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030133	Lab ID: J1804987-004
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	120		10	10	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030792	Lab ID: J1804987-005
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	540		10	10	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030140	Lab ID: J1804987-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	180		10	10	MPN/100m L	ASTM D6503-99



Sample Receipt Information

ALS Environmental—Jacksonville Laboratory
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Client: Florida DEP
Project: LSJR North Salt/2018-06-25-06

Service Request:J1804987

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1804987-001	20030114	7/11/2018	0920
J1804987-002	G2NE1161	7/11/2018	0950
J1804987-003	20030129	7/11/2018	1010
J1804987-004	20030133	7/11/2018	1030
J1804987-005	20030792	7/11/2018	1100
J1804987-006	20030140	7/11/2018	1140

Cooler Receipt Form

Client: FDEP Service Request #: JI804987
 Project: LSJR North Sat
 Cooler received on 7/11/18 and opened on 7/11/18 by BB Shipping paid by ALS? 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) .6°C
- 5 Thermometer ID T124
- 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 ☒
- 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

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Florida Department of Environmental Protection
LSJR North Salt



Project Name LSJR North Salt		Project Number 2018-06-25-06		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																		
Project Manager Jeremy Parrish		Email Address Jeremy.M.Parrish@dep.state.fl.us		PRESERVATIVE																		
Company/Address FDEP 8800 Baymeadows Way West Jax FL 32256				NUMBER OF CONTAINERS Enter numeric																	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 #		REMARKS/ ALTERNATE DESCRIPTION																		
Sampler's Signature Jeremy Parrish		Sampler's Printed Name Jeremy Parrish																				
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX																		
20030114		7/11/18	920	SW	1	X																
G2NE1161			950		1	X																
20030129			1010		1	X																
20030133			1030		1	X																
20030792			1100		1	X																
20030140			1140		1	X																
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 ☐					O.6 °C																	
SAMPLE RECEIPT: CONDITION/COOLER TEMP:					CUSTODY SEALS: Y N																	
RELINQUISHED BY Signature Jeremy Parrish Printed Name Jeremy Parrish		RECEIVED BY Signature Chyanne Riven Printed Name Chyanne Riven		RELINQUISHED BY Signature Firm ALS Date/Time 7/11/18 1222		RECEIVED BY Signature Firm Date/Time 7/14/18 1222		RELINQUISHED BY Signature Firm Date/Time		RECEIVED BY Signature Firm Date/Time		RELINQUISHED BY Signature Firm Date/Time		RECEIVED BY Signature Firm 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	6/30/2018
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
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	T104704197-18-10	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.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Florida DEP
Project: LSJR North Salt/2018-06-25-06

Service Request: J1804987

Sample Name: 20030114
Lab Code: J1804987-001
Sample Matrix: Water

Date Collected: 07/11/18**Date Received:** 07/11/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ALANE

Sample Name: G2NE1161
Lab Code: J1804987-002
Sample Matrix: Water

Date Collected: 07/11/18**Date Received:** 07/11/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ALANE

Sample Name: 20030129
Lab Code: J1804987-003
Sample Matrix: Water

Date Collected: 07/11/18**Date Received:** 07/11/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ALANE

Sample Name: 20030133
Lab Code: J1804987-004
Sample Matrix: Water

Date Collected: 07/11/18**Date Received:** 07/11/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ALANE

Sample Name: 20030792
Lab Code: J1804987-005
Sample Matrix: Water

Date Collected: 07/11/18**Date Received:** 07/11/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ALANE

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Florida DEP
Project: LSJR North Salt/2018-06-25-06

Service Request: J1804987

Sample Name: 20030140
Lab Code: J1804987-006
Sample Matrix: Water

Date Collected: 07/11/18
Date Received: 07/11/18

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
ALANE



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 North Salt/2018-06-25-06
Sample Matrix: Water
Analysis Method: ASTM D6503-99

Service Request: J1804987
Date Collected: 07/11/18
Date Received: 07/11/18
Units: MPN/100mL
Basis: NA

Enterococcus

Sample Name	Lab Code	Result	PQL	Dil.	Date Analyzed	Q
20030114	J1804987-001	320	10	10	07/11/18 15:59	
G2NE1161	J1804987-002	220	10	10	07/11/18 15:59	
20030129	J1804987-003	84	10	10	07/11/18 15:59	
20030133	J1804987-004	120	10	10	07/11/18 15:59	
20030792	J1804987-005	540	10	10	07/11/18 15:59	
20030140	J1804987-006	180	10	10	07/11/18 15:59	
Method Blank	J1804987-MB	1.0 U	1.0	1	07/11/18 15:59	