



November 15, 2018

Service Request No:J1808058

Mr. Jeremy Parrish
Florida DEP
7825 Baymeadows Way, Suite 200-B
Jacksonville, FL 32256-7577

Laboratory Results for: Sante Fe R SCI

Dear Mr.Parrish,

Enclosed are the results of the sample(s) submitted to our laboratory November 13, 2018
For your reference, these analyses have been assigned our service request number **J1808058**.

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

ADDRESS 9143 Philips Highway, Suite 200, Jacksonville, FL 32256
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ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Jacksonville Laboratory
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Client: Florida DEP
Project: Sante Fe R SCI/RQ2018-11-12-12
Sample Matrix: Water

Service Request: J1808058
Date Received: 11/13/18

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

One water sample was received for analysis at ALS Environmental on 11/13/18. 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:

Method SM9223B: Sample J1808058-001 was removed from the incubator and read on 11/14/18 at 16:49.

Approved by  Date 11/15/2018



SAMPLE DETECTION SUMMARY

CLIENT ID: 21030115			Lab ID: J1808058-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	657		10	10	MPN/100m L	SM 9223 B

Sample Receipt Information

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Client: Florida DEP
Project: Sante Fe R SCI/RQ2018-11-12-12

Service Request:J1808058

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1808058-001	21030115	11/13/2018	1110

Cooler Receipt Form

Client: FDEP Service Request #: J1303058
 Project: SANTA FE R SCI Shipping paid by ALS?
 Cooler received on 11.13.18 and opened on 11.13.18 by KB 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) _____ 1.3°C _____
 5 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
- 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:



PAGE 1 OF 1

SR# J7808058
CAS Contract

Project Name Santa Fe R SCI		Project Number RQ2018-11-12-12		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																																					
Project Manager Jeremy Parrish		Email Address Dep.O.reflowmicro@dop.state.fl.us		PRESERVATIVE																																					
Company/Address FDEP				NUMBER OF CONTAINERS		E.Coli																																			
8800 Baymeadows Way W STE 100																																									
Jacksonville, FL 32256																																									
Phone # 904-256-1700		FAX #																																							
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name Amy Kalmbacher																																							
CLIENT SAMPLE ID				LAB ID		SAMPLING DATE		TIME		MATRIX																															
20030115 21030115						11-13-18		11:10		SW																															
SPECIAL INSTRUCTIONS/COMMENTS 1.3°C																		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:						CUSTODY SEALS: Y N																	
																		RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY			
																		<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>			
																		Printed Name Amy Kalmbacher				Printed Name KAYLA BLACKWELL				Printed Name				Printed Name				Printed Name				Printed Name			
																		Firm FDEP				Firm ALS				Firm				Firm				Firm				Firm			
																		Date/Time 11/13/2018 1530				Date/Time 11.13.18 / 1530				Date/Time				Date/Time				Date/Time				Date/Time			
																		Distribution: White - Return to Originator; Yellow - Retained by Client.																							

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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	6/30/2011
Florida Department of Health	E82502	6/30/2011
Georgia Department of Natural Resources	958	6/30/2011
Kentucky Division of Waste Management	66206	6/30/2011
Louisiana Department of Environmental Quality	02086	6/30/2011
Maine Department of Health and Human Services	66206	6/30/2011
North Carolina Department of Environment and Natural Resources	527	12/31/2011
South Carolina Department of Health and Environmental Control	96021001	6/30/2011
Texas Commission on Environmental Quality	66206	5/31/2011
Virginia Environmental Accreditation Program	460191	12/14/2011

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: Sante Fe R SCI/RQ2018-11-12-12

Service Request: J1808058

Sample Name: 21030115
Lab Code: J1808058-001
Sample Matrix: Water

Date Collected: 11/13/18
Date Received: 11/13/18

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
HHERNANDEZ



E0 0E	E0 0F	E0 19	E0 1C	E0 1B	E0 1E	E0 0D	E0 12	E0 1E	E0 20	E0 1B	E0 1F	E0 1E
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E0 05	E0E0 1611	E0 10	E0 18	E0 10	E0E0 1618	E0E0 1618	E0 14	E0 22
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Analytical Report

Client: Florida DEP
Project: Sante Fe R SCI/RQ2018-11-12-12
Sample Matrix: Water

Sample Name: 21030115
Lab Code: J1808058-001

Service Request: J1808058
Date Collected: 11/13/18 11:10
Date Received: 11/13/18 15:30

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	657	MPN/100mL	10	10	11/13/18 15:52	



E0 0C	E0 03	E0 0E	E0 20	E0 19	E0 19	E0 0F	E0 10	E0 2E	E0 05	E0 18	E0 10	E0 19	E0 1E
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E0 05	E0E0 1611	E0 10	E0 18	E0 10	E0E0 1618	E0E0 1618	E0 14	E0 22
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Analytical Report

Client: Florida DEP
Project: Sante Fe R SCI/RQ2018-11-12-12
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: J1808058-MB

Service Request: J1808058
Date Collected: NA
Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	1.0 U	MPN/100mL	1.0	1	11/13/18 15:52	