July 05, 2018 Service Request No:J1804757

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

Laboratory Results for: Nassau West

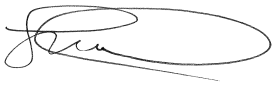
Dear Sara,

Enclosed are the results of the sample(s) submitted to our laboratory July 02, 2018
For your reference, these analyses have been assigned our service request number **J1804757.**

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 **Service Request:**J1804757

Project: Nassau West/RQ2018-06-04-30

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1804757-001	19010042	7/2/2018	0930
J1804757-002	19010123	7/2/2018	1005

ALS Environmental

Cooler Receipt Form

Client: FDEP Service Request #: JT18047S7

Project: Nassau West

Shipping paid by ALS? Yes (No) N/A

Cooler received on ~~7/2/18~~ BB 7/2/18 and opened on 7/2/18 by BB

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)	0.0°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 (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?	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?	(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:

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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Florida Department of Environmental Protection
Nassau West

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 1

Project Name: Nassau West	Project Number: RQ2018-06-04-30 dep.state.
Project Manager: Jeremy Parrish	Email Address: jeremy.m.parrish@fl.us
Company/Address: FDEP 8800 Baymeadows Way W STE 100 Jacksonville, FL 32256	
Phone #: 904-256-1700	FAX #:
Sampler's Signature: Amy Kalmbacher	Sampler's Printed Name: Amy Kalmbacher

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 8

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ICE

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	E. Coli	REMARKS/ ALTERNATE DESCRIPTION
19010042		7-2-18	0930	SW	1	✓	
19010123		7-2-18	1005	SW	1	✓	

SPECIAL INSTRUCTIONS/COMMENTS

See QAPP ☐ 0.0°C

SAMPLE RECEIPT: CONDITION/COOLER TEMP: CUSTODY SEALS: Y N

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:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Amy Kalmbacher	Signature: [signature]	Signature	Signature	Signature	Signature
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: 7-2-2018 1220	Date/Time: 7.2.18 1220	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 Certifications[1]

Agency	Number	Expiration Date
Department of Defense	66206	6/30/2020
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	6/30/2019
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.

Client:	Florida DEP	**Service Request:**	J1804757
Project:	Nassau West/RQ2018-06-04-30		

Sample Name:	19010042	**Date Collected:**	07/2/18
Lab Code:	J1804757-001	**Date Received:**	07/2/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 9223 B		ALANE

Sample Name:	19010123	**Date Collected:**	07/2/18
Lab Code:	J1804757-002	**Date Received:**	07/2/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 9223 B		ALANE

Sample Results

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Microbiology

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dba ALS Environmental

Analytical Report

Client:	Florida DEP	**Service Request:**	J1804757
Project:	Nassau West/RQ2018-06-04-30	**Date Collected:**	07/2/18
Sample Matrix:	Water	**Date Received:**	07/2/18
Analysis Method:	SM 9223 B	**Units:**	MPN/100mL
		Basis:	NA

Escherichia coli

Sample Name	Lab Code	Result	PQL	Dil.	Date Analyzed	Q
19010042	J1804757-001	**173**	10	10	07/02/18 13:38	
19010123	J1804757-002	**135**	10	10	07/02/18 13:38	
Method Blank	J1804757-MB	1.0 U	1.0	1	07/02/18 13:38	