

October 09, 2017

Kevin Hart
South Broward Drainage District
6591 sW 160th Avenue
Fort Lauderdale, FL 33331

RE: Project: SOUTH 09272017
Pace Project No.: 35338008

Dear Kevin Hart:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Terrence Anderson
terrence.anderson@pacelabs.com
954-582-4300
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: SOUTH 09272017
Pace Project No.: 35338008

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

South Florida Certification IDs

3610 Park Central Blvd N, Pompano Beach, FL 33064

Florida Certification #: E86240

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SAMPLE SUMMARY

Project: SOUTH 09272017

Pace Project No.: 35338008

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35338008001	FOX TRAIL	Water	09/27/17 09:45	09/27/17 12:50
35338008002	SW 139 AVE	Water	09/27/17 09:58	09/27/17 12:50
35338008003	SW 141 AVE	Water	09/27/17 10:13	09/27/17 12:50
35338008004	SW 143 AVE & 47 ST	Water	09/27/17 10:26	09/27/17 12:50
35338008005	BLUE GILL RD & WESTEND WINDSOR	Water	09/27/17 10:38	09/27/17 12:50

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SAMPLE ANALYTE COUNT

Project: SOUTH 09272017
Pace Project No.: 35338008

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35338008001	FOX TRAIL	SM 9222B	STH	1	PASI-SF
		SM 9222D	STH	1	PASI-SF
		EPA 365.3	JDW	1	PASI-O
35338008002	SW 139 AVE	SM 9222B	STH	1	PASI-SF
		SM 9222D	STH	1	PASI-SF
		EPA 365.3	BMU	1	PASI-O
35338008003	SW 141 AVE	SM 9222B	STH	1	PASI-SF
		SM 9222D	STH	1	PASI-SF
		EPA 365.3	JDW	1	PASI-O
35338008004	SW 143 AVE & 47 ST	SM 9222B	STH	1	PASI-SF
		SM 9222D	STH	1	PASI-SF
		EPA 365.3	JDW	1	PASI-O
35338008005	BLUE GILL RD & WESTEND WINDSOR	SM 9222B	STH	1	PASI-SF
		SM 9222D	STH	1	PASI-SF
		EPA 365.3	JDW	1	PASI-O

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ANALYTICAL RESULTS

Project: SOUTH 09272017

Pace Project No.: 35338008

Sample: FOX TRAIL **Lab ID: 35338008001** Collected: 09/27/17 09:45 Received: 09/27/17 12:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222B Total Coliform MF									
Analytical Method: SM 9222B Preparation Method: SM 9222B									
Total Coliforms	800	CFU/100 mL	1.0	1.0	1	09/27/17 17:45	09/28/17 17:23		B
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D									
Fecal Coliforms	240	CFU/100 mL	1.0	1.0	1	09/27/17 17:43	09/28/17 17:00		
365.3 Phosph. Total Low Level									
Analytical Method: EPA 365.3									
Phosphorus, Total (as P) LL	0.021	mg/L	0.0040	0.0028	1		10/04/17 16:53	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SOUTH 09272017

Pace Project No.: 35338008

Sample: SW 139 AVE **Lab ID: 35338008002** Collected: 09/27/17 09:58 Received: 09/27/17 12:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222B Total Coliform MF									
Analytical Method: SM 9222B Preparation Method: SM 9222B									
Total Coliforms	200	CFU/100 mL	1.0	1.0	1	09/27/17 17:45	09/28/17 17:23		B
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D									
Fecal Coliforms	74.0	CFU/100 mL	1.0	1.0	1	09/27/17 17:43	09/28/17 17:00		
365.3 Phosph. Total Low Level									
Analytical Method: EPA 365.3									
Phosphorus, Total (as P) LL	0.011	mg/L	0.0040	0.0028	1		10/08/17 09:48	7723-14-0	

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ANALYTICAL RESULTS

Project: SOUTH 09272017

Pace Project No.: 35338008

Sample: SW 141 AVE **Lab ID: 35338008003** Collected: 09/27/17 10:13 Received: 09/27/17 12:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222B Total Coliform MF									
Analytical Method: SM 9222B Preparation Method: SM 9222B									
Total Coliforms	500	CFU/100 mL	1.0	1.0	1	09/27/17 18:06	09/28/17 17:23		B
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D									
Fecal Coliforms	245	CFU/100 mL	1.0	1.0	1	09/27/17 18:13	09/28/17 17:00		B
365.3 Phosph. Total Low Level									
Analytical Method: EPA 365.3									
Phosphorus, Total (as P) LL	0.016	mg/L	0.0040	0.0028	1		10/04/17 16:58	7723-14-0	

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ANALYTICAL RESULTS

Project: SOUTH 09272017
Pace Project No.: 35338008

Sample: SW 143 AVE & 47 ST **Lab ID: 35338008004** Collected: 09/27/17 10:26 Received: 09/27/17 12:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222B Total Coliform MF									
Analytical Method: SM 9222B Preparation Method: SM 9222B									
Total Coliforms	200	CFU/100 mL	1.0	1.0	1	09/27/17 18:06	09/28/17 17:23		B
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D									
Fecal Coliforms	82.0	CFU/100 mL	1.0	1.0	1	09/27/17 18:13	09/28/17 17:00		
365.3 Phosph. Total Low Level									
Analytical Method: EPA 365.3									
Phosphorus, Total (as P) LL	0.022	mg/L	0.0040	0.0028	1		10/04/17 16:59	7723-14-0	

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ANALYTICAL RESULTS

Project: SOUTH 09272017

Pace Project No.: 35338008

Sample: BLUE GILL RD & WESTEND WINDSOR **Lab ID:** 35338008005 Collected: 09/27/17 10:38 Received: 09/27/17 12:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222B Total Coliform MF	Analytical Method: SM 9222B Preparation Method: SM 9222B								
Total Coliforms	100	CFU/100 mL	1.0	1.0	1	09/27/17 18:06	09/28/17 17:23		1p,B
9222D Fecal Coliform	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	560	CFU/100 mL	1.0	1.0	1	09/27/17 18:13	09/28/17 17:00		2p
365.3 Phosph. Total Low Level	Analytical Method: EPA 365.3								
Phosphorus, Total (as P) LL	0.013	mg/L	0.0040	0.0028	1		10/04/17 17:00	7723-14-0	

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QUALITY CONTROL DATA

Project: SOUTH 09272017
Pace Project No.: 35338008

QC Batch: 396612 Analysis Method: EPA 365.3
QC Batch Method: EPA 365.3 Analysis Description: 365.3 Low Level Total Phosphorus
Associated Lab Samples: 35338008001, 35338008003, 35338008004, 35338008005

METHOD BLANK: 2163656 Matrix: Water
Associated Lab Samples: 35338008001, 35338008003, 35338008004, 35338008005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.0028 U	0.0040	0.0028	10/04/17 16:57	

LABORATORY CONTROL SAMPLE: 2163657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P) LL	mg/L	.1	0.10	102	90-110	

MATRIX SPIKE SAMPLE: 2163659

Parameter	Units	35337762004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.041	.1	0.14	103	80-120	

SAMPLE DUPLICATE: 2163658

Parameter	Units	35337762004 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.041	0.040	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: SOUTH 09272017

Pace Project No.: 35338008

QC Batch: 396761

Analysis Method: EPA 365.3

QC Batch Method: EPA 365.3

Analysis Description: 365.3 Low Level Total Phosphorus

Associated Lab Samples: 35338008002

METHOD BLANK: 2164741

Matrix: Water

Associated Lab Samples: 35338008002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.0028 U	0.0040	0.0028	10/08/17 09:42	

LABORATORY CONTROL SAMPLE: 2164742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P) LL	mg/L	.1	0.097	97	90-110	

MATRIX SPIKE SAMPLE: 2164744

Parameter	Units	35337762003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.19	.1	0.31	119	80-120	

SAMPLE DUPLICATE: 2164743

Parameter	Units	35337762003 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.19	0.20	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: SOUTH 09272017
Pace Project No.: 35338008

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach
PASI-SF Pace Analytical Services - South Florida

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.
1p Sample duplicate failed to meet laboratory precision criteria, duplicate result is 100U cfu/100 mL.
2p Sample duplicate failed to meet laboratory precision criteria, duplicate result is 287 cfu/ 100 mL.
B Results based upon colony counts outside the acceptable range.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SOUTH 09272017

Pace Project No.: 35338008

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35338008001	FOX TRAIL	SM 9222B	396858	SM 9222B	396859
35338008002	SW 139 AVE	SM 9222B	396858	SM 9222B	396859
35338008003	SW 141 AVE	SM 9222B	396858	SM 9222B	396859
35338008004	SW 143 AVE & 47 ST	SM 9222B	396858	SM 9222B	396859
35338008005	BLUE GILL RD & WESTEND WINDSOR	SM 9222B	396858	SM 9222B	396859
35338008001	FOX TRAIL	SM 9222D	396680	SM 9222D	396681
35338008002	SW 139 AVE	SM 9222D	396680	SM 9222D	396681
35338008003	SW 141 AVE	SM 9222D	396680	SM 9222D	396681
35338008004	SW 143 AVE & 47 ST	SM 9222D	396680	SM 9222D	396681
35338008005	BLUE GILL RD & WESTEND WINDSOR	SM 9222D	396680	SM 9222D	396681
35338008001	FOX TRAIL	EPA 365.3	396612		
35338008002	SW 139 AVE	EPA 365.3	396761		
35338008003	SW 141 AVE	EPA 365.3	396612		
35338008004	SW 143 AVE & 47 ST	EPA 365.3	396612		
35338008005	BLUE GILL RD & WESTEND WINDSOR	EPA 365.3	396612		

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Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007-rev. 12

Document Revised:
August 2, 2017
Issuing Authority:
Pace Florida Quality Office

WO#: 35338008

Project #
Project Manager:
Client:

PM: TGA
CLIENT: 36-SBDD

Due Date: 10/05/17

SCUR

Date and Initials of person:
Examining contents:
Label:
Deliver:
pH:
Initials:

Thermometer Used: T-35 Date: 9/21/17 Time: 1250

State of Origin: _____
Cooler #1 Temp. °C 3.2 (Visual) -0.1 (Correction Factor) 3.1 (Actual)
Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

- Samples on ice, cooling process has begun
- Samples on ice, cooling process has begun
- Samples on ice, cooling process has begun
- Samples on ice, cooling process has begun
- Samples on ice, cooling process has begun
- Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace
Shipping Method: First Overnight Priority Overnight Standard Overnight Ground Other _____
Billing: Recipient Sender Third Party Credit Card Unknown
Tracking # _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Ice: Wet Blue Dry None
Packing Material: Bubble Wrap Bubble Bags None Other _____
Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

		Comments:
Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____ Date: _____