

FINAL - Groundwater Monitoring Report April 2021 Sampling Event

Village of Pinecrest, Miami-Dade County, Florida
10800 Red Road
Pinecrest, Florida 33156

SCS ENGINEERS

092221087.00 | May 5, 2021

9500 South Dadeland Boulevard, Suite 600
Miami, FL 33156
305-412-8185

Table of Contents

Section	Page
1.0 Introduction.....	1
1.1 Background.....	1
1.2 Regional Geology.....	1
2.0 Field Activities.....	2
2.1 Nested Monitoring Well Sampling	2
3.0 Groundwater Analytical Results.....	2
3.1.1 Chloride.....	2
3.1.2 Nitrite.....	3
4.0 Findings and Recommendations.....	3

Figures

- Figure 1: Site Location
Figure 2: Monitoring Well Locations
Figure 3: USGS Saltwater Contour with Analytical Data

Tables

- Table 1: Summary of Groundwater Elevation Data and Monitoring Well Construction Details
Table 2: Groundwater Analytical Results Summary

Appendices

- Appendix A: Groundwater Sampling Logs and Calibration Forms
Appendix B: Laboratory Analytical Reports

1.0 INTRODUCTION

SCS Engineers (SCS) was retained by the Village of Pinecrest (Village), to prepare this Groundwater Monitoring Report for the above-referenced study area in accordance with the proposal for Evaluation of Groundwater Conditions, dated March 16, 2021. The study area is located between U.S. Highway 1 and SW 57th Ave in Miami-Dade County, Florida depicted in Figure 1. The site layout and monitoring well locations are depicted on Figure 2.

The purpose of this groundwater monitoring program is to assess the westward advancement saltwater in the Biscayne (drinking water) aquifer and potential contamination in residential drinking water wells.

1.1 BACKGROUND

In June and July of 2018 SCS engineers installed four clusters of monitoring wells along an east to west transit across the Village of Pinecrest. The purpose of these wells was to evaluate the potential saltwater intrusion in the residential wells in the village as well as potential contamination in those wells. The four monitoring well clusters (MW1, MW2, MW3, and MW4), each consisted of three monitoring wells installed to depths of a 30-foot, 50-foot, and 70 foot below land surface (BLS). Soil at each of the monitoring well locations consisted of three to six inches of top soil, six inches to three to four feet of medium grey to brown fine sand with gravel, and from four feet to 70 feet Miami Limestone.

The easternmost well cluster (MW4) is located in Pinecrest Garden Park and the westernmost well cluster is located in Coral Pine Park (MW1). The other two clusters were installed in Village owned right of way near the intersections of SW 106th Street (MW2) and SW 61st Avenue, and the intersection of Ludlam Road and SW 104th Street (MW3). The monitoring well cluster locations are shown on Figure 2.

The monitoring wells were sampled twice in 2018 to evaluate potential saltwater intrusion and potential impacts from nearby septic systems.

The results of both 2018 sampling events were consistent with chloride detection exceeding the GCTL of 250 mg/L in MW4-70 at a concentration of 12,800 mg/L (during both events). This concentration also exceeds the secondary drinking water standard concentration of 250 mg/L. A chloride concentration of 12,800 mg/L places this well outside of the range of brackish water, which is characterized by chloride concentrations between 250 mg/L and 1,000 mg/L, and within the range of salty water, which is characterized by chloride concentrations greater than 1,000 mg/L. MW4-70 is the only well that has historically indicated the impacts of saltwater intrusion.

1.2 REGIONAL GEOLOGY

According to the Florida Department of Environmental Protection Geologic Map of Florida, the site is located within the Atlantic Coastal Ridge Physiographic Province. Bedrock at the site and surrounding areas is generally described as being from the Cenozoic Era, the Quaternary System, and the Pleistocene series. More specifically the site is underlain by the Miami Limestone.

Groundwater flow the study area is toward the southeast however, groundwater flow can be influenced by the presence of topography, site drainage features, and pumping rates of nearby wells.

The Biscayne Aquifer is the principal source of water in Miami-Dade County. The Biscayne Aquifer consists of highly permeable limestone and less-permeable sandstone and sands.

2.0 FIELD ACTIVITIES

2.1 NESTED MONITORING WELL SAMPLING

On April 13 and April 14, 2021, SCS collected groundwater samples from the twelve monitoring wells (MW1-30, MW1-50, MW1-70, MW2-30, MW2-50, MW2-70, MW3-30, MW3-50, MW3-70, MW4-30, MW4-50, and MW4-70) in accordance with the FDEP ground water monitoring standard operating procedures (SOPs). Monitoring well construction details are outlined in Table 1. Groundwater sampling logs and equipment calibration logs are provided in Appendix A. The samples were submitted to a NELAC-certified analytical laboratory for the analysis of the following:

- Salinity by Conductivity via SM 2520B Modified;
- Chloride via EPA Method 300.0;
- Biologic Oxygen Demand (BOD) via SM 5210B;
- Nitrate-Nitrite (as nitrogen) and Nitrite (as nitrogen) via EPA Method 353.2;
- Ammonia via EPA Method 350.1;
- Fecal Coliform via SM 9222D;
- Total Suspended Solids via SM 2540D;

3.0 GROUNDWATER ANALYTICAL RESULTS

Based on laboratory analytical results, the tested parameters did not exceed the Groundwater Cleanup Target Levels (GCTLs) promulgated in Chapter 24-44 of the Miami-Dade County Code, with the exception of a Chloride exceedance in MW4-70 and Nitrite exceedance in MW3-30 for the Primary Drinking Water Standards. A summary of groundwater analytical results is provided in Table 2. The laboratory reports and chain-of-custody records are provided in Appendix B. A summary of exceedances is provided below.

3.1.1 Chloride

Chloride was detected above the GCTL of 250 mg/L in MW4-70 at a concentration of 14,000 mg/L, which is an increase over the concentrations detected during the previous sampling events in July and December 2018. This concentration also exceeds the secondary drinking water standard concentration of 250 mg/L. A chloride concentration of 14,000 mg/L places this well outside of the range of brackish water, which is characterized by chloride concentrations between 250 mg/L and 1,000 mg/L, and within the range of salty water, which is characterized by chloride concentrations greater than 1,000 mg/L. During the last sampling event (December 2018) chloride concentrations monitoring well MW4-70 were 12,800 mg/L. Chloride concentrations in monitoring well MW4-30 and MW4-50 were 193 mg/l and 186 mg/L higher than historic concentrations but below the GCTL and range of brackish water or salt water.

Chloride concentrations across all wells sampled in April 2021 are similar from the previous sampling events with the exception of MW2-30, MW2-50, and MW3-70 where a slightly lower concentration was detected and MW4-30 and MW4-70 where an increased concentration was detected.

3.1.2 Nitrite

Nitrite was detected above the Primary Drinking Water Standards of 1.0 mg/L in MW3-30 as a concentration of 1.2 mg/L, which is above the concentration detected during the previous sampling events in July and December 2018. Nitrite concentrations across all wells sampled in April 2021 are similar from previous sampling events..

4.0 FINDINGS AND RECOMMENDATIONS

In April 2021, SCS sampled the monitoring well clusters and found exceedances of chloride in MW4-70 and of Nitrite in MW3-30. Based on chloride data collected this sampling event and data collected from United States Geologic Survey (USGS) wells located within the Village, saltwater intrusion is occurring in the southeast portion of the Village.

The MW4 well cluster is the most southeast of the well clusters installed and falls within this area of saltwater intrusion, shown in Figure 3. Compared to the results of previous groundwater monitoring events chloride concentrations in the MW-4 wells have increased, indicating further saltwater intrusion to the west.

Current and historic groundwater data indicate an increase of chloride in MW4 cluster at all intervals, with saltwater detected at the deepest interval 70 ft BLS. The shallow intervals in MW4 cluster indicate an upward trend towards what would be characterized as brackish water. Continued groundwater monitoring of the same constituents across the four well clusters will allow the village to monitor the advancement of saltwater inland and upwards through the water column.

Figures

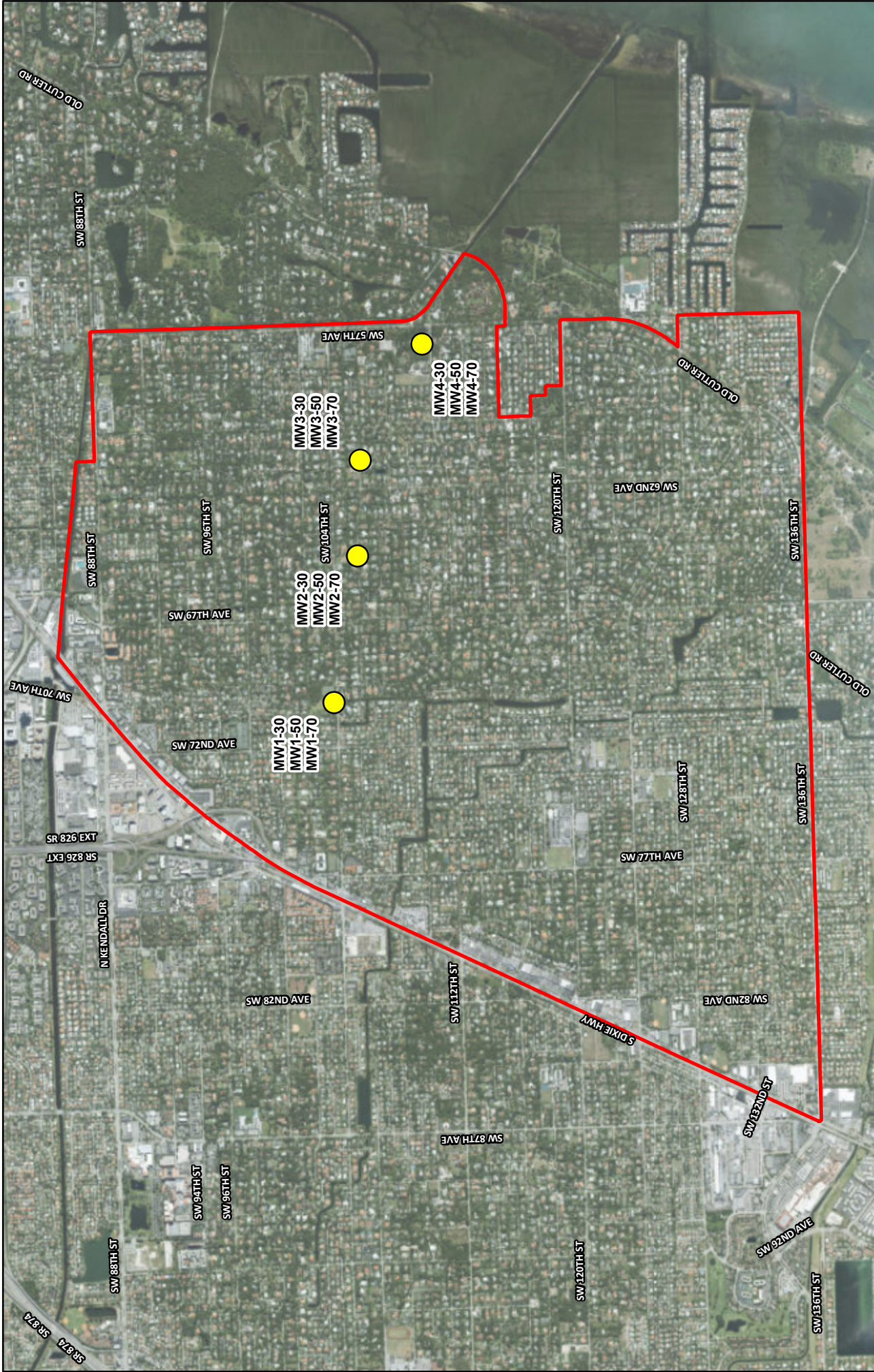


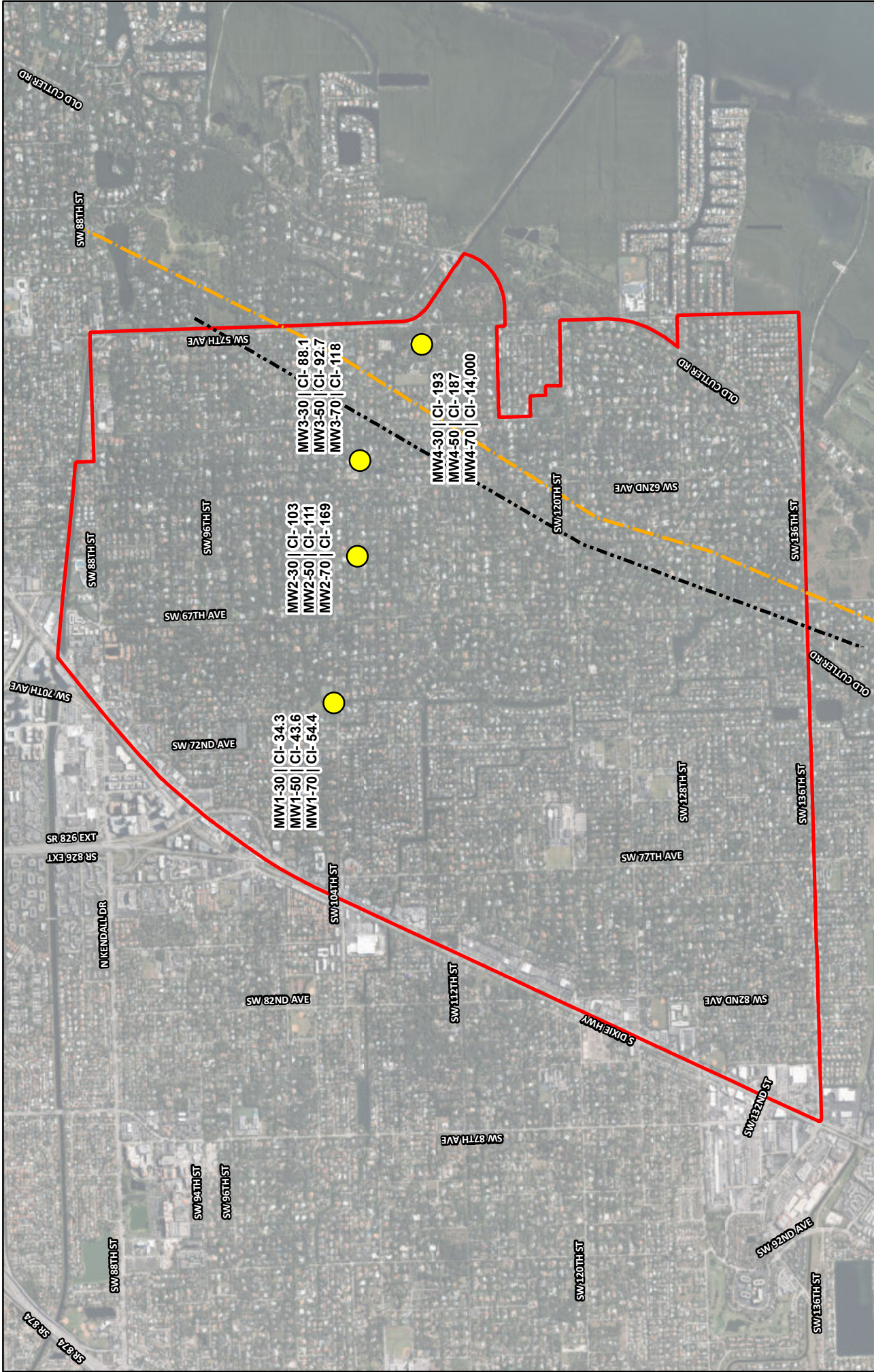
FIGURE 2
 Village of Pinecrest
 Monitoring Well Locations
 Miami-Dade County, FL

Legend

- Monitoring Well Locations
- Village of Pinecrest Boundary

SCS ENGINEERS
 Tampa, FL

0 1,500 3,000 Feet
 April 2021



Legend

- Monitoring Well Locations
- Village of Pinecrest Boundary
- Estimated Salinity Boundary
- Approximated USGS Contour (2014)
- Approximated Extent of Chloride > 250 mg/L at 70 ft below land surface

Note: Values represented in milligrams per liter (mg/L).

FIGURE 3
 Village of Pinecrest
 Monitoring Well Locations with Chloride Concentrations
 Miami-Dade County, FL

SCS ENGINEERS
 Tampa, FL | May 2021

0 1,500 3,000 Feet
 N

Tables

**Table 1: MONITORING WELL CONSTRUCTION DETAILS
and GROUNDWATER ELEVATION SUMMARY
Village of Pinecrest**

WELL NUMBER	MW1-30	MW1-50	MW1-70	MW2-30	MW2-50	MW2-70
DIAMETER. (in.)	1	1	1	1	1	1
WELL DEPTH (ft)	30	50	70	30	50	70
SCREEN INTERVAL (ft)	25 to 30	45 to 50	65-70	25 to 30	45 to 50	65-70
TOC ELEVATION (ft)	3.45	3.47	3.47	5.98	5.98	5.99

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
4/13/2021	0.31	3.14	0.33	3.14	0.36	3.11	0.18	5.80	0.16	5.82	0.17	5.82

WELL NUMBER	MW3-30	MW3-50	MW3-70	MW4-30	MW4-50	MW4-70
DIAMETER. (in.)	1	1	1	1	1	1
WELL DEPTH (ft)	30	50	70	30	50	70
SCREEN INTERVAL (ft)	25 to 30	45 to 50	65-70	25 to 30	45 to 50	65-70
TOC ELEVATION (ft)	7.42	7.42	7.44	11.14	11.14	11.11

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
4/13/2021	-0.09	7.51	-0.11	7.53	-0.08	7.52	1.92	9.22	1.77	9.37	1.16	9.95

Notes

1. ft = Feet
2. TOC = Top of casing
3. DTW = Depth to water
4. ELEV = Elevation

Table 2 - Groundwater Analytical Summary
Village of Pinecrest

Sample		BOD, 5 day	Chloride	Fecal Coliforms	Nitrogen, Ammonia	Nitrogen, Nitrate	Nitrogen, Nitrite	Salinity	Total Suspended Solids
Location	Date	(mg/L)	(mg/L)	(CFU/100 mL)	(mg/L)	(mg/L)	(mg/L)	(ppt)	(mg/L)
MW1-30	07/26/2018	2.0 U	34	1.0 U	0.65	0.025 U	0.025 U	7.0 U	5.0 U
	12/27/2018	2.0 U	38.3	1.0 U	0.41	0.025 U	0.025 U	7.0 U	5.0 U
	4/13/2021	2.0 U	34.3	1.0 U	0.78	0.025 U	0.025 U	7.0 U	5.0 U
MW1-50	07/26/2018	2.0 U	43.7	1.0 U	0.14	0.051	0.025 U	7.0 U	5.0 U
	12/27/2018	2.0 U	44.7	1.0 U	0.035 U	0.032 I	0.025 U	7.0 U	5.0 U
	4/13/2021	2.0 U	43.6	NA	0.17	0.41	0.025 U	7.0 U	5.0 U
MW1-70	07/26/2018	2.0 U	54.6	1.0 U	0.29	0.025 U	0.025 U	7.0 U	5.0 U
	12/27/2018	2.0 U	60.4	1.0 U	0.25	0.025 U	0.025 U	7.0 U	5.0 U
	4/13/2021	2.0 U	54.4	1.0 U	0.38	0.025 I	0.038 I	7.0 U	5.0 U
MW2-30	07/18/2018	21.2	112	1.0 U	0.041 I	0.035 I	0.025 U	7.0 U	8.5
	12/27/2018	2.0 U	117	1.0 U	0.035 U	0.025 U	0.025 U	7.0 U	8.9
	4/14/2021	2.0 U	103	NA	0.035 U	0.029 I	0.025 U	7.0 U	5.4
MW2-50	07/18/2018	14.6	130	1.0 U	0.035 U	0.025 U	0.025 U	7.0 U	5.0 U
	12/27/2018	2.0 U	128	1.0 U	0.035 U	0.025 U	0.025 U	7.0 U	5.0 U
	4/14/2021	2.0 U	111	1.0 U	0.035 U	0.79	0.025 U	7.0 U	5.0 U
MW2-70	07/26/2018	4.8	169	1.0 U	0.035 U	0.025 U	0.025 U	7.0 U	5.0 U
	12/27/2018	2.0 U	188	1.0 U	0.035 U	0.025 U	0.025 U	7.0 U	5.0 U
	4/14/2021	2.0 U	169	1.0 U	0.035 U	0.025 U	0.025 U	7.0 U	5.0 U
MW3-30	07/18/2018	2.0 U	42.5	1.0 U	1.2	2.2	0.17	7.0 U	6.0
	12/28/2018	2.4	93.2	1.0 U	0.5	1.3	0.96	7.0 U	10.0
	4/14/2021	2.0 U	88.1	NA	0.2	2.0	1.2	7.0 U	5.0 U
MW3-50	07/18/2018	20.3	97.1	1.0 U	0.035 U	0.53	0.059	7.0 U	5.0 U
	12/28/2018	2.0 U	99.2	1.0 U	0.035 U	0.85	0.025 U	7.0 U	5.0 U
	4/14/2021	2.0 U	92.7	1.0 U	0.035 U	2.5	0.025 U	7.0 U	5.0 U
MW3-70	07/18/2018	2.0 U	129	1.0 U	0.047 I	0.49	0.032 I	7.0 U	5.0 U
	12/28/2018	2.0 U	131	1.0 U	0.035 U	1.2	0.042 I	7.0 U	5.0 U
	4/14/2021	2.0 U	118	1.0 U	0.035 U	0.96	0.035 I	7.0 U	5.0 U
MW4-30	07/17/2018	9.2	146	1.0 U	0.21	0.69	0.062	7.0 U	27
	12/26/2018	2.1	160	1.0 U	0.12	0.54	0.083	7.0 U	176
	4/13/2021	2.0 U	193	1.0 U	0.035 U	0.76	0.078	7.0 U	5.0 U
MW4-50	07/17/2018	14.1	154	95.0	0.035 U	0.23	0.025 U	780	5.0 U
	12/26/2018	2.0 U	176	1.0 U	0.035 U	0.21	0.026 I	7.0 U	5.0 U
	4/13/2021	2.0 U	187	1.0 U	0.035 U	0.80	0.07	7.0 U	5.0 U
MW4-70	07/18/2018	2.5 U	12800	1.0 U	0.12	0.025 U	0.025 U	17.8	41
	12/26/2018	2.0 U	12800	1.0 U	0.16	0.025 U	0.025 U	22.8	36
	4/13/2021	2.0 U	14000	1.0 U	0.15	0.030 I	0.025 U	23.4	26
Groundwater Cleanup Target Level		NA	250	NA	2.8	NA	NA	NA	NA
Primary Drinking Water Standard		NA	NA	4	NA	10	1	NA	NA
Secondary Drinking Water Standard		NA	250	NA	NA	NA	NA	NA	NA

Notes:

mg/L = milligrams per liter

CFU/100mL = Colony Forming Units per 100 milliliters


ppt = Parts per Thousand

U = Analyte was not detected at the laboratory's method detection limit (MDL)

I = Estimated value. The reported value was detected between the laboratory MDL and the practical quantitation limit (PQL)

Groundwater Cleanup Target Level (GCTL) specified in Table I of Chapter 24-22, MDCC

Bolded values indicate an exceedance of the applicable GCTL, or Drinking Water Standard



Appendix A
Groundwater Sampling Logs and Calibration Forms



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # **WO# : 35625653**
Project Manager: **PM: CTR** **Due Date: 04/19/21**
Client: **CLIENT: 36-SCS_Lenna**

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

Thermometer Used: T337 Date: 4/13/21 Time: 2350 Initials: CJA

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C 21 (Visual) +0.1 (Correction Factor) 212 (Actual) Samples on ice, cooling process has begun

Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority

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	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
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 checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" 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: _____



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # **WO# : 35625653**
Project Manager: PM: CTR Due Date: 04/19/21
Client: CLIENT: 36-SCS_Lenna

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

Thermometer Used: T343 Date: 4/13/21 Time: 1645 Initials: lu

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

- Cooler #1 Temp.°C 10.1 (Visual) 0.0 (Correction Factor) 10.1 (Actual) Samples on ice, cooling process has begun
- Cooler #2 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #3 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #4 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #5 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #6 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

- Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
- Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 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 checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input 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 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): Ice Melted

Project Manager Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO#: 35626037
Due Date: 04/20/21
PM: CTR
CLIENT: 36-ESCON

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

Thermometer Used: T33 Date: 4/17/21 Time: 2343 Initials: CJA

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

- Cooler #1 Temp.°C 11.6 (Visual) +0.1 (Correction Factor) 1.7 (Actual) Samples on ice, cooling process has begun
- Cooler #2 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #3 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #4 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #5 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #6 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

- Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
- Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority 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	<p>Preservation Information:</p> <p>Preservative: _____</p> <p>Lot #/Trace #: _____</p> <p>Date: _____ Time: _____</p> <p>Initials: _____</p>
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 checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" 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: _____



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # **WO# : 35626037**
Project Manager: PM: CTR **Due Date:** 04/20/21
Client: CLIENT: 36-ESCON

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

Thermometer Used: T345 **Date:** 4/14/21 **Time:** 1541 **Initials:** AM

State of Origin: _____ For WW projects, all containers verified to ≤6 °C

- Cooler #1 Temp. °C 16.9 (Visual) 0.0 (Correction Factor) 16.9 (Actual) Samples on ice, cooling process has begun
- Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

- Courier:** Fed Ex UPS USPS Client Commercial Pace Other _____
- Shipping Method:** First Overnight Priority Overnight Standard Overnight Ground International Priority
 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	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
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 checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input 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	
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	<input 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:** _____



Appendix B
Laboratory Analytical Reports

April 19, 2021

Dave Atteberry
SCS Engineers - Jacksonville, FL
14785 Old St. Augustine Road
Suite 300
Jacksonville, FL 32258

RE: Project: Pincrest
Pace Project No.: 35625653

Dear Dave Atteberry:

Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach
- Pace Analytical Services - South Florida

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

Sincerely,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: Claudia Pineda, SCS Engineers
Troy Schick, SCS Engineers



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Pinecrest
Pace Project No.: 35625653

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
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
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services South Florida

3610 Park Central Blvd N, Pompano Beach, FL 33064

Florida Certification #: E86240

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: Pinecrest
Pace Project No.: 35625653

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35625653001	MW1-30	Water	04/13/21 12:53	04/13/21 16:45
35625653002	MW1-50	Water	04/13/21 12:19	04/13/21 16:45
35625653003	MW1-70	Water	04/13/21 11:45	04/13/21 16:45
35625653004	MW4-30	Water	04/13/21 11:10	04/13/21 16:45
35625653005	MW4-50	Water	04/13/21 10:33	04/13/21 16:45
35625653006	MW4-70	Water	04/13/21 10:00	04/13/21 16:45

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Pinecrest
Pace Project No.: 35625653

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35625653001	MW1-30	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF
		SM 5210B	AD2	1	PASI-SF
		SM 9222D	AD2	1	PASI-SF
		EPA 300.0	YMP	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	TM3	2	PASI-O
35625653002	MW1-50	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF
		SM 5210B	AD2	1	PASI-SF
		SM 9222D	AD2	1	PASI-SF
		EPA 300.0	YMP	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	TM3	2	PASI-O
35625653003	MW1-70	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF
		SM 5210B	AD2	1	PASI-SF
		SM 9222D	AD2	1	PASI-SF
		EPA 300.0	YMP	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	CLL	2	PASI-O
35625653004	MW4-30	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF
		SM 5210B	AD2	1	PASI-SF
		SM 9222D	AD2	1	PASI-SF
		EPA 300.0	YMP	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	CLL	2	PASI-O
35625653005	MW4-50	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF
		SM 5210B	AD2	1	PASI-SF
		SM 9222D	AD2	1	PASI-SF
		EPA 300.0	YMP	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	CLL	2	PASI-O
35625653006	MW4-70	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Pinecrest
Pace Project No.: 35625653

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5210B	AD2	1	PASI-SF
		SM 9222D	AD2	1	PASI-SF
		EPA 300.0	YMP	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	CLL	2	PASI-O

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: Pinecrest
Pace Project No.: 35625653

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35625653001	MW1-30					
EPA 300.0	Chloride	34.3	mg/L	5.0	04/17/21 21:20	
EPA 350.1	Nitrogen, Ammonia	0.78	mg/L	0.050	04/15/21 17:01	
35625653002	MW1-50					
SM 9222D	Fecal Coliforms	No result	CFU/100 mL	1.0	04/14/21 15:57	1p,Z
EPA 300.0	Chloride	43.6	mg/L	5.0	04/17/21 21:42	
EPA 350.1	Nitrogen, Ammonia	0.17	mg/L	0.050	04/15/21 17:03	
EPA 353.2	Nitrogen, Nitrate	0.41	mg/L	0.050	04/15/21 11:34	
35625653003	MW1-70					
EPA 300.0	Chloride	54.4	mg/L	5.0	04/17/21 22:47	
EPA 350.1	Nitrogen, Ammonia	0.38	mg/L	0.050	04/15/21 17:04	
EPA 353.2	Nitrogen, Nitrate	0.025 I	mg/L	0.050	04/15/21 10:20	
EPA 353.2	Nitrogen, Nitrite	0.038 I	mg/L	0.050	04/15/21 10:20	
35625653004	MW4-30					
EPA 300.0	Chloride	193	mg/L	25.0	04/17/21 23:09	
EPA 353.2	Nitrogen, Nitrate	0.76	mg/L	0.050	04/15/21 07:42	
EPA 353.2	Nitrogen, Nitrite	0.078	mg/L	0.050	04/15/21 07:42	
35625653005	MW4-50					
EPA 300.0	Chloride	187	mg/L	25.0	04/17/21 23:30	
EPA 353.2	Nitrogen, Nitrate	0.80	mg/L	0.050	04/15/21 07:08	
EPA 353.2	Nitrogen, Nitrite	0.070	mg/L	0.050	04/15/21 07:08	
35625653006	MW4-70					
SM 2520B Modified	Salinity	23.4	ppt	7.0	04/19/21 09:24	
SM 2540D	Total Suspended Solids	25.8	mg/L	5.0	04/15/21 14:27	
EPA 300.0	Chloride	14000	mg/L	1000	04/17/21 23:52	
EPA 350.1	Nitrogen, Ammonia	0.15	mg/L	0.050	04/15/21 17:13	
EPA 353.2	Nitrogen, Nitrate	0.030 I	mg/L	0.050	04/15/21 06:27	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35625653

Method: SM 2520B Modified
Description: Salinity by Conductivity
Client: SCS Engineers
Date: April 19, 2021

General Information:

6 samples were analyzed for SM 2520B Modified by Pace Analytical Services South Florida. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35625653

Method: SM 2540D
Description: 2540D Total Suspended Solids
Client: SCS Engineers
Date: April 19, 2021

General Information:

6 samples were analyzed for SM 2540D by Pace Analytical Services South Florida. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 721012

PP: The mass of dried residue obtained did not meet the test method requirements based on volume used.

- DUP (Lab ID: 3929583)
 - Total Suspended Solids
- DUP (Lab ID: 3929814)
 - Total Suspended Solids
- MW1-30 (Lab ID: 35625653001)
 - Total Suspended Solids

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest

Pace Project No.: 35625653

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: SCS Engineers

Date: April 19, 2021

Analyte Comments:

QC Batch: 721012

PP: The mass of dried residue obtained did not meet the test method requirements based on volume used.

- MW1-50 (Lab ID: 35625653002)
 - Total Suspended Solids
- MW1-70 (Lab ID: 35625653003)
 - Total Suspended Solids

QC Batch: 721276

PP: The mass of dried residue obtained did not meet the test method requirements based on volume used.

- MW4-30 (Lab ID: 35625653004)
 - Total Suspended Solids
- MW4-50 (Lab ID: 35625653005)
 - Total Suspended Solids

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35625653

Method: SM 5210B
Description: 5210B BOD, 5 day
Client: SCS Engineers
Date: April 19, 2021

General Information:

6 samples were analyzed for SM 5210B by Pace Analytical Services South Florida. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 720883

V: Indicates that the analyte was detected in both the sample and the associated method blank.

- MW1-30 (Lab ID: 35625653001)
- BOD, 5 day

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest

Pace Project No.: 35625653

Method: SM 5210B

Description: 5210B BOD, 5 day

Client: SCS Engineers

Date: April 19, 2021

Analyte Comments:

QC Batch: 720883

V: Indicates that the analyte was detected in both the sample and the associated method blank.

- MW1-50 (Lab ID: 35625653002)
 - BOD, 5 day
- MW1-70 (Lab ID: 35625653003)
 - BOD, 5 day
- MW4-30 (Lab ID: 35625653004)
 - BOD, 5 day
- MW4-50 (Lab ID: 35625653005)
 - BOD, 5 day
- MW4-70 (Lab ID: 35625653006)
 - BOD, 5 day

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35625653

Method: SM 9222D
Description: 9222D Fecal Coliform
Client: SCS Engineers
Date: April 19, 2021

General Information:

6 samples were analyzed for SM 9222D by Pace Analytical Services South Florida. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM 9222D with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 721404

1p: Growth of non-target organisms too numerous to count..

- MW1-50 (Lab ID: 35625653002)
- Fecal Coliforms

Z: Too many colonies were present for accurate counting.

- MW1-50 (Lab ID: 35625653002)
- Fecal Coliforms

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35625653

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: SCS Engineers
Date: April 19, 2021

General Information:

6 samples were analyzed for EPA 300.0 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35625653

Method: EPA 350.1
Description: 350.1 Ammonia
Client: SCS Engineers
Date: April 19, 2021

General Information:

6 samples were analyzed for EPA 350.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35625653

Method: EPA 353.2
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: SCS Engineers
Date: April 19, 2021

General Information:

6 samples were analyzed for EPA 353.2 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 721144

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35625504002,35625666002

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3930671)
 - Nitrogen, Nitrite

J(R1): Estimated Value. RPD value was outside control limits.

- MSD (Lab ID: 3930670)
 - Nitrogen, Nitrite

QC Batch: 721146

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35625822001,35625822003

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3930683)
 - Nitrogen, Nitrite
- MSD (Lab ID: 3930682)
 - Nitrogen, Nitrite

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35625653

Sample: MW1-30 **Lab ID: 35625653001** Collected: 04/13/21 12:53 Received: 04/13/21 16:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:17		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.0 U	mg/L	5.0	5.0	1		04/14/21 15:26		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/14/21 15:51	04/19/21 10:35		V
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	04/13/21 17:38	04/14/21 15:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	34.3	mg/L	5.0	2.5	1		04/17/21 21:20	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.78	mg/L	0.050	0.035	1		04/15/21 17:01	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		04/15/21 11:47	14797-55-8	
Nitrogen, Nitrite	0.025 U	mg/L	0.050	0.025	1		04/15/21 11:47	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35625653

Sample: MW1-50 **Lab ID: 35625653002** Collected: 04/13/21 12:19 Received: 04/13/21 16:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:19		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.0 U	mg/L	5.0	5.0	1		04/14/21 15:26		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/14/21 15:57	04/19/21 10:41		V
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	No result	CFU/100 mL	1.0	1.0	1	04/13/21 17:38	04/14/21 15:57		1p,Z
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	43.6	mg/L	5.0	2.5	1		04/17/21 21:42	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.17	mg/L	0.050	0.035	1		04/15/21 17:03	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.41	mg/L	0.050	0.025	1		04/15/21 11:34	14797-55-8	
Nitrogen, Nitrite	0.025 U	mg/L	0.050	0.025	1		04/15/21 11:34	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35625653

Sample: MW1-70 **Lab ID: 35625653003** Collected: 04/13/21 11:45 Received: 04/13/21 16:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:20		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.0 U	mg/L	5.0	5.0	1		04/14/21 15:26		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/14/21 15:58	04/19/21 10:43		V
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	04/13/21 17:38	04/14/21 15:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	54.4	mg/L	5.0	2.5	1		04/17/21 22:47	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.38	mg/L	0.050	0.035	1		04/15/21 17:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.025 I	mg/L	0.050	0.025	1		04/15/21 10:20	14797-55-8	
Nitrogen, Nitrite	0.038 I	mg/L	0.050	0.025	1		04/15/21 10:20	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35625653

Sample: MW4-30 **Lab ID: 35625653004** Collected: 04/13/21 11:10 Received: 04/13/21 16:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:22		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.0 U	mg/L	5.0	5.0	1		04/15/21 14:27		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/14/21 16:01	04/19/21 10:46		V
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	04/13/21 17:38	04/14/21 15:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	193	mg/L	25.0	12.5	5		04/17/21 23:09	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		04/15/21 17:06	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.76	mg/L	0.050	0.025	1		04/15/21 07:42	14797-55-8	
Nitrogen, Nitrite	0.078	mg/L	0.050	0.025	1		04/15/21 07:42	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35625653

Sample: MW4-50 **Lab ID: 35625653005** Collected: 04/13/21 10:33 Received: 04/13/21 16:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:23		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.0 U	mg/L	5.0	5.0	1		04/15/21 14:27		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/14/21 16:03	04/19/21 10:49		V
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	04/13/21 17:38	04/14/21 15:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	187	mg/L	25.0	12.5	5		04/17/21 23:30	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		04/15/21 17:08	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.80	mg/L	0.050	0.025	1		04/15/21 07:08	14797-55-8	
Nitrogen, Nitrite	0.070	mg/L	0.050	0.025	1		04/15/21 07:08	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35625653

Sample: MW4-70 **Lab ID: 35625653006** Collected: 04/13/21 10:00 Received: 04/13/21 16:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	23.4	ppt	7.0	7.0	1		04/19/21 09:24		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	25.8	mg/L	5.0	5.0	1		04/15/21 14:27		
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/14/21 16:04	04/19/21 10:52		V
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	04/13/21 17:38	04/14/21 15:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	14000	mg/L	1000	500	200		04/17/21 23:52	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.15	mg/L	0.050	0.035	1		04/15/21 17:13	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.030 I	mg/L	0.050	0.025	1		04/15/21 06:27	14797-55-8	
Nitrogen, Nitrite	0.025 U	mg/L	0.050	0.025	1		04/15/21 06:27	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35625653

QC Batch: 721012	Analysis Method: SM 2540D
QC Batch Method: SM 2540D	Analysis Description: 2540D Total Suspended Solids
	Laboratory: Pace Analytical Services - South Florida

Associated Lab Samples: 35625653001, 35625653002, 35625653003

METHOD BLANK: 3929581 Matrix: Water
Associated Lab Samples: 35625653001, 35625653002, 35625653003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0	5.0	04/14/21 15:25	

LABORATORY CONTROL SAMPLE: 3929582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	95.3	95	90-110	

SAMPLE DUPLICATE: 3929583

Parameter	Units	35624956001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0 U		10	PP

SAMPLE DUPLICATE: 3929814

Parameter	Units	35625653003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0 U		10	PP

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35625653

QC Batch: 721276	Analysis Method: SM 2540D
QC Batch Method: SM 2540D	Analysis Description: 2540D Total Suspended Solids
	Laboratory: Pace Analytical Services - South Florida

Associated Lab Samples: 35625653004, 35625653005, 35625653006

METHOD BLANK: 3931136 Matrix: Water
Associated Lab Samples: 35625653004, 35625653005, 35625653006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0	5.0	04/15/21 14:27	

LABORATORY CONTROL SAMPLE: 3931137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	98.4	98	90-110	

SAMPLE DUPLICATE: 3931138

Parameter	Units	35625653004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0 U		10	

SAMPLE DUPLICATE: 3931139

Parameter	Units	35625320002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	159	156	2	10	

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35625653

QC Batch: 720883	Analysis Method: SM 5210B
QC Batch Method: SM 5210B	Analysis Description: 5210B BOD, 5 day
	Laboratory: Pace Analytical Services - South Florida

Associated Lab Samples: 35625653001, 35625653002, 35625653003, 35625653004, 35625653005, 35625653006

METHOD BLANK: 3929002 Matrix: Water
Associated Lab Samples: 35625653001, 35625653002, 35625653003, 35625653004, 35625653005, 35625653006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0	2.0	04/19/21 10:24	

LABORATORY CONTROL SAMPLE: 3929004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	192	97	85-115	

SAMPLE DUPLICATE: 3929005

Parameter	Units	35625653001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0 U		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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35625653

QC Batch: 721338 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35625653001, 35625653002, 35625653003, 35625653004, 35625653005, 35625653006

METHOD BLANK: 3931470 Matrix: Water
Associated Lab Samples: 35625653001, 35625653002, 35625653003, 35625653004, 35625653005, 35625653006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	04/17/21 16:58	

LABORATORY CONTROL SAMPLE: 3931471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3931472 3931473

Parameter	Units	35625356002		3931473		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	26.8	50	50	73.3	80.8	93	108	90-110	10	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3931474 3931475

Parameter	Units	35623459001		3931475		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	16.5	50	50	67.9	68.0	103	103	90-110	0	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35625653

QC Batch: 721419 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35625653001, 35625653002, 35625653003, 35625653004, 35625653005, 35625653006

METHOD BLANK: 3931807 Matrix: Water
Associated Lab Samples: 35625653001, 35625653002, 35625653003, 35625653004, 35625653005, 35625653006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	04/15/21 16:39	

LABORATORY CONTROL SAMPLE: 3931808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3931810 3931809

Parameter	Units	35625365004		3931810		3931809		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Nitrogen, Ammonia	mg/L	0.035 U	1	1	1.0	1.0	99	98	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3931811 3931812

Parameter	Units	35625653005		3931811		3931812		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Nitrogen, Ammonia	mg/L	0.035 U	1	1	0.99	0.98	99	98	90-110	0	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35625653

QC Batch: 721144 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35625653006

METHOD BLANK: 3930666 Matrix: Water
Associated Lab Samples: 35625653006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	04/15/21 06:10	
Nitrogen, Nitrite	mg/L	0.025 U	0.050	0.025	04/15/21 06:10	

LABORATORY CONTROL SAMPLE: 3930667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3930669 3930668

Parameter	Units	35625504002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.025 U	1	1	0.94	1.1	93	105	90-110	12	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3930671 3930670

Parameter	Units	35625666002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	1.4	5	5	4.5	6.8	64	109	90-110	40	20	J(M1), J(R1)

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35625653

QC Batch: 721145 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35625653005

METHOD BLANK: 3930674 Matrix: Water
Associated Lab Samples: 35625653005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	04/15/21 06:51	
Nitrogen, Nitrite	mg/L	0.025 U	0.050	0.025	04/15/21 06:51	

LABORATORY CONTROL SAMPLE: 3930675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3930677 3930676

Parameter	Units	35625504003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.025 U	1	1	1.1	1.1	106	105	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3930679 3930678

Parameter	Units	35625775001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	<0.025	1	1	1.0	1.0	98	98	90-110	0	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35625653

QC Batch: 721146	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35625653003, 35625653004

METHOD BLANK: 3930680 Matrix: Water
Associated Lab Samples: 35625653003, 35625653004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	04/15/21 07:29	
Nitrogen, Nitrite	mg/L	0.025 U	0.050	0.025	04/15/21 07:29	

LABORATORY CONTROL SAMPLE: 3930681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3930683 3930682

Parameter	Units	35625822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.025 U	1	1	0.76	0.75	75	75	90-110	1	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3930685 3930684

Parameter	Units	35625822003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.025 U	1	1	0.99	1.0	98	99	90-110	2	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35625653

QC Batch: 721147 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35625653001, 35625653002

METHOD BLANK: 3930687 Matrix: Water

Associated Lab Samples: 35625653001, 35625653002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	04/15/21 10:24	
Nitrogen, Nitrite	mg/L	0.025 U	0.050	0.025	04/15/21 10:24	

LABORATORY CONTROL SAMPLE: 3930688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3930690 3930689

Parameter	Units	35625516001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Nitrogen, Nitrite	mg/L	0.025 U	1	1.1	1.1	104	105	90-110	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3930692 3930691

Parameter	Units	35625573001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Nitrogen, Nitrite	mg/L	0.025 U	1	1.0	1.0	102	103	90-110	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Pinecrest
Pace Project No.: 35625653

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
1p	Growth of non-target organisms too numerous to count..
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1)	Estimated Value. RPD value was outside control limits.
PP	The mass of dried residue obtained did not meet the test method requirements based on volume used.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Z	Too many colonies were present for accurate counting.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pinecrest
Pace Project No.: 35625653

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35625653001	MW1-30	SM 2520B Modified	722033		
35625653002	MW1-50	SM 2520B Modified	722033		
35625653003	MW1-70	SM 2520B Modified	722033		
35625653004	MW4-30	SM 2520B Modified	722033		
35625653005	MW4-50	SM 2520B Modified	722033		
35625653006	MW4-70	SM 2520B Modified	722033		
35625653001	MW1-30	SM 2540D	721012		
35625653002	MW1-50	SM 2540D	721012		
35625653003	MW1-70	SM 2540D	721012		
35625653004	MW4-30	SM 2540D	721276		
35625653005	MW4-50	SM 2540D	721276		
35625653006	MW4-70	SM 2540D	721276		
35625653001	MW1-30	SM 5210B	720883	SM 5210B	722040
35625653002	MW1-50	SM 5210B	720883	SM 5210B	722040
35625653003	MW1-70	SM 5210B	720883	SM 5210B	722040
35625653004	MW4-30	SM 5210B	720883	SM 5210B	722040
35625653005	MW4-50	SM 5210B	720883	SM 5210B	722040
35625653006	MW4-70	SM 5210B	720883	SM 5210B	722040
35625653001	MW1-30	SM 9222D	721404	SM 9222D	721405
35625653002	MW1-50	SM 9222D	721404	SM 9222D	721405
35625653003	MW1-70	SM 9222D	721404	SM 9222D	721405
35625653004	MW4-30	SM 9222D	721404	SM 9222D	721405
35625653005	MW4-50	SM 9222D	721404	SM 9222D	721405
35625653006	MW4-70	SM 9222D	721404	SM 9222D	721405
35625653001	MW1-30	EPA 300.0	721338		
35625653002	MW1-50	EPA 300.0	721338		
35625653003	MW1-70	EPA 300.0	721338		
35625653004	MW4-30	EPA 300.0	721338		
35625653005	MW4-50	EPA 300.0	721338		
35625653006	MW4-70	EPA 300.0	721338		
35625653001	MW1-30	EPA 350.1	721419		
35625653002	MW1-50	EPA 350.1	721419		
35625653003	MW1-70	EPA 350.1	721419		
35625653004	MW4-30	EPA 350.1	721419		
35625653005	MW4-50	EPA 350.1	721419		
35625653006	MW4-70	EPA 350.1	721419		
35625653001	MW1-30	EPA 353.2	721147		
35625653002	MW1-50	EPA 353.2	721147		
35625653003	MW1-70	EPA 353.2	721146		
35625653004	MW4-30	EPA 353.2	721146		
35625653005	MW4-50	EPA 353.2	721145		
35625653006	MW4-70	EPA 353.2	721144		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #

WO# : 35625653

Project Manager:

PM: CTR

Due Date: 04/19/21

Client:

CLIENT: 36-SCS_Lenna

Date and Initials of person:

Examining contents:

Label:

Deliver:

pH:

CJA

Thermometer Used:

T337

Date:

4/13/21

Time:

2350

Initials:

CJA

State of Origin:

21

For WV projects, all containers verified to $\leq 6^\circ\text{C}$

Cooler #1 Temp. °C (Visual) +0.1 (Correction Factor) 2.2 (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

Other

Shipping Method: First Overnight Priority Overnight Standard Overnight Ground

International Priority

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	<p>Preservation Information:</p> <p>Preservative: _____</p> <p>Lot #/Trace #: _____</p> <p>Date: _____ Time: _____</p> <p>Initials: _____</p>
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 checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" 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: _____ Page 36 of 37



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # **WO# : 35625653**
Project Manager: PM: CTR Due Date: 04/19/21
Client: CLIENT: 36-SCS_Lenna

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

Thermometer Used: T343 Date: 4/13/21 Time: 1645 Initials: lu

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

- Cooler #1 Temp.°C 10.1 (Visual) 0.0 (Correction Factor) 10.1 (Actual) Samples on ice, cooling process has begun
- Cooler #2 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #3 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #4 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #5 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #6 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

- Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
- Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 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 checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input 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 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): Ice Melted

Project Manager Review: _____ Date: _____

April 21, 2021

Dave Atteberry
SCS Engineers - Jacksonville, FL
14785 Old St. Augustine Road
Suite 300
Jacksonville, FL 32258

RE: Project: Pincrest
Pace Project No.: 35626037

Dear Dave Atteberry:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach
- Pace Analytical Services - South Florida

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

Sincerely,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: Claudia Pineda, SCS Engineers
Troy Schick, SCS Engineers



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Pinecrest
Pace Project No.: 35626037

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
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
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services South Florida

3610 Park Central Blvd N, Pompano Beach, FL 33064

Florida Certification #: E86240

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: Pinecrest
Pace Project No.: 35626037

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35626037001	MW2-30	Water	04/14/21 13:10	04/14/21 15:41
35626037002	MW2-50	Water	04/14/21 12:35	04/14/21 15:41
35626037003	MW2-70	Water	04/14/21 12:00	04/14/21 15:41
35626037004	MW3-30	Water	04/14/21 11:10	04/14/21 15:41
35626037005	MW3-50	Water	04/14/21 10:35	04/14/21 15:41
35626037006	MW3-70	Water	04/14/21 10:00	04/14/21 15:41

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Pinecrest
Pace Project No.: 35626037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35626037001	MW2-30	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF
		SM 5210B	JRL	1	PASI-SF
		SM 9222D	OT1	1	PASI-SF
		EPA 300.0	EDC	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	TM3	2	PASI-O
35626037002	MW2-50	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF
		SM 5210B	JRL	1	PASI-SF
		SM 9222D	OT1	1	PASI-SF
		EPA 300.0	EDC	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	TM3	2	PASI-O
35626037003	MW2-70	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF
		SM 5210B	JRL	1	PASI-SF
		SM 9222D	OT1	1	PASI-SF
		EPA 300.0	EDC	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	TM3	2	PASI-O
35626037004	MW3-30	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF
		SM 5210B	JRL	1	PASI-SF
		SM 9222D	OT1	1	PASI-SF
		EPA 300.0	EDC	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	RMB	2	PASI-O
35626037005	MW3-50	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF
		SM 5210B	JRL	1	PASI-SF
		SM 9222D	OT1	1	PASI-SF
		EPA 300.0	EDC	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	TM3	2	PASI-O
35626037006	MW3-70	SM 2520B Modified	LTP	1	PASI-SF
		SM 2540D	GDV	1	PASI-SF

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Pinecrest
Pace Project No.: 35626037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5210B	JRL	1	PASI-SF
		SM 9222D	OT1	1	PASI-SF
		EPA 300.0	EDC	1	PASI-O
		EPA 350.1	RRB	1	PASI-O
		EPA 353.2	RMB	2	PASI-O

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35626037

Method: SM 2520B Modified
Description: Salinity by Conductivity
Client: SCS Engineers
Date: April 21, 2021

General Information:

6 samples were analyzed for SM 2520B Modified by Pace Analytical Services South Florida. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35626037

Method: SM 2540D
Description: 2540D Total Suspended Solids
Client: SCS Engineers
Date: April 21, 2021

General Information:

6 samples were analyzed for SM 2540D by Pace Analytical Services South Florida. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 721276

PP: The mass of dried residue obtained did not meet the test method requirements based on volume used.

- MW2-30 (Lab ID: 35626037001)
 - Total Suspended Solids
- MW2-50 (Lab ID: 35626037002)
 - Total Suspended Solids
- MW2-70 (Lab ID: 35626037003)
 - Total Suspended Solids

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest

Pace Project No.: 35626037

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: SCS Engineers

Date: April 21, 2021

Analyte Comments:

QC Batch: 721276

PP: The mass of dried residue obtained did not meet the test method requirements based on volume used.

- MW3-30 (Lab ID: 35626037004)
 - Total Suspended Solids
- MW3-50 (Lab ID: 35626037005)
 - Total Suspended Solids
- MW3-70 (Lab ID: 35626037006)
 - Total Suspended Solids

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35626037

Method: SM 5210B
Description: 5210B BOD, 5 day
Client: SCS Engineers
Date: April 21, 2021

General Information:

6 samples were analyzed for SM 5210B by Pace Analytical Services South Florida. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 721317

J(L2): Estimated Value. Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 3931379)
- BOD, 5 day

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35626037

Method: SM 9222D
Description: 9222D Fecal Coliform
Client: SCS Engineers
Date: April 21, 2021

General Information:

6 samples were analyzed for SM 9222D by Pace Analytical Services South Florida. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM 9222D with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 721657

1p: Confluent growth of non-target organisms.

- MW2-30 (Lab ID: 35626037001)
 - Fecal Coliforms
- MW3-30 (Lab ID: 35626037004)
 - Fecal Coliforms

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest

Pace Project No.: 35626037

Method: SM 9222D

Description: 9222D Fecal Coliform

Client: SCS Engineers

Date: April 21, 2021

Analyte Comments:

QC Batch: 721657

Z: Too many colonies were present for accurate counting.

- MW2-30 (Lab ID: 35626037001)
 - Fecal Coliforms
- MW3-30 (Lab ID: 35626037004)
 - Fecal Coliforms

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest

Pace Project No.: 35626037

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: SCS Engineers

Date: April 21, 2021

General Information:

6 samples were analyzed for EPA 300.0 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35626037

Method: EPA 350.1
Description: 350.1 Ammonia
Client: SCS Engineers
Date: April 21, 2021

General Information:

6 samples were analyzed for EPA 350.1 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 722106

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35625673003,35625870001

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3936184)
 - Nitrogen, Ammonia
- MSD (Lab ID: 3936183)
 - Nitrogen, Ammonia

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: Pinecrest
Pace Project No.: 35626037

Method: EPA 353.2
Description: 353.2 Nitrogen, NO₂/NO₃ unpres
Client: SCS Engineers
Date: April 21, 2021

General Information:

6 samples were analyzed for EPA 353.2 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Q: Sample held beyond the accepted holding time. Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

- MW3-30 (Lab ID: 35626037004)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 721586

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35626313001,35626330001

J(M1): Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3933933)
 - Nitrogen, Nitrite
- MSD (Lab ID: 3933932)
 - Nitrogen, Nitrite

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35626037

Sample: MW2-30 **Lab ID: 35626037001** Collected: 04/14/21 13:10 Received: 04/14/21 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:33		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.4	mg/L	5.0	5.0	1		04/15/21 14:28		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/15/21 15:37	04/20/21 11:01		J(L2)
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	No result	CFU/100 mL	1.0	1.0	1	04/14/21 17:03	04/15/21 15:16		1p,Z
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	103	mg/L	25.0	12.5	5		04/20/21 03:31	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		04/19/21 14:14	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.029 I	mg/L	0.050	0.025	1		04/16/21 12:56	14797-55-8	
Nitrogen, Nitrite	0.025 U	mg/L	0.050	0.025	1		04/16/21 12:56	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35626037

Sample: MW2-50 **Lab ID: 35626037002** Collected: 04/14/21 12:35 Received: 04/14/21 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:36		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.0 U	mg/L	5.0	5.0	1		04/15/21 14:28		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/15/21 15:56	04/20/21 11:16		J(L2)
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	04/14/21 17:03	04/15/21 15:16		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	111	mg/L	25.0	12.5	5		04/20/21 03:53	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		04/19/21 14:16	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.79	mg/L	0.050	0.025	1		04/16/21 11:41	14797-55-8	
Nitrogen, Nitrite	0.025 U	mg/L	0.050	0.025	1		04/16/21 11:41	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35626037

Sample: MW2-70 **Lab ID: 35626037003** Collected: 04/14/21 12:00 Received: 04/14/21 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:37		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.0 U	mg/L	5.0	5.0	1		04/15/21 14:28		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/15/21 16:00	04/20/21 11:20		J(L2)
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	04/14/21 17:03	04/15/21 15:16		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	169	mg/L	25.0	12.5	5		04/20/21 04:15	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		04/19/21 14:17	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		04/16/21 11:26	14797-55-8	
Nitrogen, Nitrite	0.025 U	mg/L	0.050	0.025	1		04/16/21 11:26	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35626037

Sample: MW3-30 **Lab ID: 35626037004** Collected: 04/14/21 11:10 Received: 04/14/21 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:39		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.0 U	mg/L	5.0	5.0	1		04/15/21 14:28		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/15/21 16:02	04/20/21 11:28		J(L2)
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	No result	CFU/100 mL	1.0	1.0	1	04/14/21 17:03	04/15/21 15:16		1p,Z
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	88.1	mg/L	10.0	5.0	2		04/20/21 04:37	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.20	mg/L	0.050	0.035	1		04/19/21 14:19	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	2.0	mg/L	0.050	0.025	1		04/16/21 15:17	14797-55-8	Q
Nitrogen, Nitrite	1.2	mg/L	0.050	0.025	1		04/16/21 15:17	14797-65-0	Q

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35626037

Sample: MW3-50 **Lab ID: 35626037005** Collected: 04/14/21 10:35 Received: 04/14/21 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:40		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.0 U	mg/L	5.0	5.0	1		04/15/21 14:28		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/15/21 16:04	04/20/21 11:30		J(L2)
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	04/14/21 17:03	04/15/21 15:16		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	92.7	mg/L	25.0	12.5	5		04/20/21 05:00	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		04/19/21 14:21	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	2.5	mg/L	0.050	0.025	1		04/16/21 10:29	14797-55-8	
Nitrogen, Nitrite	0.025 U	mg/L	0.050	0.025	1		04/16/21 10:29	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pinecrest
Pace Project No.: 35626037

Sample: MW3-70 **Lab ID: 35626037006** Collected: 04/14/21 10:00 Received: 04/14/21 15:41 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Salinity by Conductivity									
Analytical Method: SM 2520B Modified Pace Analytical Services - South Florida									
Salinity	7.0 U	ppt	7.0	7.0	1		04/19/21 09:41		
2540D Total Suspended Solids									
Analytical Method: SM 2540D Pace Analytical Services - South Florida									
Total Suspended Solids	5.0 U	mg/L	5.0	5.0	1		04/15/21 14:28		PP
5210B BOD, 5 day									
Analytical Method: SM 5210B Pace Analytical Services - South Florida									
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	04/15/21 16:09	04/20/21 11:33		J(L2)
9222D Fecal Coliform									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - South Florida									
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	04/14/21 17:03	04/15/21 15:16		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
Chloride	118	mg/L	25.0	12.5	5		04/20/21 05:22	16887-00-6	
350.1 Ammonia									
Analytical Method: EPA 350.1 Pace Analytical Services - Ormond Beach									
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		04/19/21 14:22	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
Nitrogen, Nitrate	0.96	mg/L	0.050	0.025	1		04/15/21 21:38	14797-55-8	
Nitrogen, Nitrite	0.035 I	mg/L	0.050	0.025	1		04/15/21 21:38	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35626037

QC Batch: 722033	Analysis Method: SM 2520B Modified
QC Batch Method: SM 2520B Modified	Analysis Description: Salinity Conductivity
	Laboratory: Pace Analytical Services - South Florida

Associated Lab Samples: 35626037001, 35626037002, 35626037003, 35626037004, 35626037005, 35626037006

METHOD BLANK: 3936062 Matrix: Water
Associated Lab Samples: 35626037001, 35626037002, 35626037003, 35626037004, 35626037005, 35626037006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Salinity	ppt	7.0 U	7.0	7.0	04/19/21 09:15	

LABORATORY CONTROL SAMPLE: 3936063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Salinity	ppt	35	34.9	100	90-110	

SAMPLE DUPLICATE: 3936064

Parameter	Units	35625653001 Result	Dup Result	RPD	Max RPD	Qualifiers
Salinity	ppt	7.0 U	7.0 U		5	

SAMPLE DUPLICATE: 3936065

Parameter	Units	35626037001 Result	Dup Result	RPD	Max RPD	Qualifiers
Salinity	ppt	7.0 U	7.0 U		5	

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35626037

QC Batch: 721276 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - South Florida
Associated Lab Samples: 35626037001, 35626037002, 35626037003, 35626037004, 35626037005, 35626037006

METHOD BLANK: 3931136 Matrix: Water
Associated Lab Samples: 35626037001, 35626037002, 35626037003, 35626037004, 35626037005, 35626037006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0	5.0	04/15/21 14:27	

LABORATORY CONTROL SAMPLE: 3931137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	98.4	98	90-110	

SAMPLE DUPLICATE: 3931138

Parameter	Units	35625653004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0 U		10	

SAMPLE DUPLICATE: 3931139

Parameter	Units	35625320002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	159	156	2	10	

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35626037

QC Batch: 721317	Analysis Method: SM 5210B
QC Batch Method: SM 5210B	Analysis Description: 5210B BOD, 5 day
	Laboratory: Pace Analytical Services - South Florida

Associated Lab Samples: 35626037001, 35626037002, 35626037003, 35626037004, 35626037005, 35626037006

METHOD BLANK: 3931377 Matrix: Water
Associated Lab Samples: 35626037001, 35626037002, 35626037003, 35626037004, 35626037005, 35626037006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0	2.0	04/20/21 10:48	

LABORATORY CONTROL SAMPLE: 3931379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	160	81	85-115	J(L2)

SAMPLE DUPLICATE: 3931380

Parameter	Units	35626037001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0 U		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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35626037

QC Batch: 722106 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35626037001, 35626037002, 35626037003, 35626037004, 35626037005, 35626037006

METHOD BLANK: 3936181 Matrix: Water
Associated Lab Samples: 35626037001, 35626037002, 35626037003, 35626037004, 35626037005, 35626037006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	04/19/21 13:34	

LABORATORY CONTROL SAMPLE: 3936182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936184 3936183

Parameter	Units	35625673003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	36.4	5	5	40.8	40.8	87	88	90-110	0	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936185 3936186

Parameter	Units	35625870001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.035 U	1	1	1.0	1.0	100	100	90-110	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35626037

QC Batch: 721490 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35626037006

METHOD BLANK: 3932563 Matrix: Water
Associated Lab Samples: 35626037006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	04/15/21 21:02	
Nitrogen, Nitrite	mg/L	0.025 U	0.050	0.025	04/15/21 21:02	

LABORATORY CONTROL SAMPLE: 3932564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932566 3932565

Parameter	Units	35626071002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.025 U	1	1	1.1	1.0	104	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932568 3932567

Parameter	Units	35626199002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.025 U	1	1	1.0	1.1	101	104	90-110	2	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35626037

QC Batch: 721586 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35626037005

METHOD BLANK: 3933171 Matrix: Water
Associated Lab Samples: 35626037005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	04/16/21 14:29	
Nitrogen, Nitrite	mg/L	0.025 U	0.050	0.025	04/16/21 14:29	

LABORATORY CONTROL SAMPLE: 3933172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	1	0.95	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3933933 3933932

Parameter	Units	35626313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.025 U	1	1	0.45	0.42	45	42	90-110	5	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3933944 3933943

Parameter	Units	35626330001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.060	1	1	1.1	1.1	103	103	90-110	0	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35626037

QC Batch: 721629	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35626037003, 35626037004

METHOD BLANK: 3933402 Matrix: Water
Associated Lab Samples: 35626037003, 35626037004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	04/16/21 15:08	
Nitrogen, Nitrite	mg/L	0.025 U	0.050	0.025	04/16/21 15:08	

LABORATORY CONTROL SAMPLE: 3933403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	1	1.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3933866 3933865

Parameter	Units	35626309001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	1.3	1	1	2.3	2.3	98	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3933869 3933868

Parameter	Units	35626307002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.025 U	1	1	1.0	1.0	103	105	90-110	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pinecrest
Pace Project No.: 35626037

QC Batch: 721631	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35626037001, 35626037002

METHOD BLANK: 3933408 Matrix: Water
Associated Lab Samples: 35626037001, 35626037002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	04/16/21 15:49	
Nitrogen, Nitrite	mg/L	0.025 U	0.050	0.025	04/16/21 15:49	

LABORATORY CONTROL SAMPLE: 3933409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrite	mg/L	1	1.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3933847 3933846

Parameter	Units	35626117001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.025 U	1	1	1.1	1.0	104	103	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3933849 3933848

Parameter	Units	35626402005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrite	mg/L	0.025 U	1	1	1.1	1.0	105	104	90-110	0	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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Pinecrest
Pace Project No.: 35626037

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
1p	Confluent growth of non-target organisms.
J(L2)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
PP	The mass of dried residue obtained did not meet the test method requirements based on volume used.
Q	Sample held beyond the accepted holding time. Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
Z	Too many colonies were present for accurate counting.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pinecrest
Pace Project No.: 35626037

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35626037001	MW2-30	SM 2520B Modified	722033		
35626037002	MW2-50	SM 2520B Modified	722033		
35626037003	MW2-70	SM 2520B Modified	722033		
35626037004	MW3-30	SM 2520B Modified	722033		
35626037005	MW3-50	SM 2520B Modified	722033		
35626037006	MW3-70	SM 2520B Modified	722033		
35626037001	MW2-30	SM 2540D	721276		
35626037002	MW2-50	SM 2540D	721276		
35626037003	MW2-70	SM 2540D	721276		
35626037004	MW3-30	SM 2540D	721276		
35626037005	MW3-50	SM 2540D	721276		
35626037006	MW3-70	SM 2540D	721276		
35626037001	MW2-30	SM 5210B	721317	SM 5210B	722364
35626037002	MW2-50	SM 5210B	721317	SM 5210B	722364
35626037003	MW2-70	SM 5210B	721317	SM 5210B	722364
35626037004	MW3-30	SM 5210B	721317	SM 5210B	722364
35626037005	MW3-50	SM 5210B	721317	SM 5210B	722364
35626037006	MW3-70	SM 5210B	721317	SM 5210B	722364
35626037001	MW2-30	SM 9222D	721657	SM 9222D	721658
35626037002	MW2-50	SM 9222D	721657	SM 9222D	721658
35626037003	MW2-70	SM 9222D	721657	SM 9222D	721658
35626037004	MW3-30	SM 9222D	721657	SM 9222D	721658
35626037005	MW3-50	SM 9222D	721657	SM 9222D	721658
35626037006	MW3-70	SM 9222D	721657	SM 9222D	721658
35626037001	MW2-30	EPA 300.0	722261		
35626037002	MW2-50	EPA 300.0	722261		
35626037003	MW2-70	EPA 300.0	722261		
35626037004	MW3-30	EPA 300.0	722261		
35626037005	MW3-50	EPA 300.0	722261		
35626037006	MW3-70	EPA 300.0	722261		
35626037001	MW2-30	EPA 350.1	722106		
35626037002	MW2-50	EPA 350.1	722106		
35626037003	MW2-70	EPA 350.1	722106		
35626037004	MW3-30	EPA 350.1	722106		
35626037005	MW3-50	EPA 350.1	722106		
35626037006	MW3-70	EPA 350.1	722106		
35626037001	MW2-30	EPA 353.2	721631		
35626037002	MW2-50	EPA 353.2	721631		
35626037003	MW2-70	EPA 353.2	721629		
35626037004	MW3-30	EPA 353.2	721629		
35626037005	MW3-50	EPA 353.2	721586		
35626037006	MW3-70	EPA 353.2	721490		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

WO# : 35626037



35626037

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section C
Project Information:

Required Client Information:			Invoice Information:		
Company:	Report To:	David Taylor	Attention:		
Address:	Copy To:		Company Name:		
Miami, FL 33156	9500 S Dadeland Blvd		Address:		
Email:	Purchase Order #:		Pace Quote:		
dxtaylor@sceaengineers.com	Pinecrest		Pace Project Manager:	christina.raschke@pacelabs.com,	
Phone:	Project Name:		Pace Profile #:	16027	
(305)412-8185				FL	
Requested Due Date:	Project #:				

Regulatory Agency
State / Location
FL

ITEM #	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	SAMPLE TYPE (G-GRAB Q-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES		ANALYSES TEST Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
				START DATE	END TIME			Unpreserved	H2SO4			
1	MW2-30			4/14/21	1310		6			X		
2	MW2-50				1235					X		
3	MW2-70				1200					X		
4	MW3-30				1110					X		
5	MW3-50				1035					X		
6	MW3-70				1000					X		
7												
8												
9												
10												
11												
12												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	TEMP in C	Received on	Ice (Y/N)	Sealed (Y/N)	Custody (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
	<i>[Signature]</i> Pace	4/14/21	1541	<i>[Signature]</i> Pace	4/14	1541								
	<i>[Signature]</i> Pace	4/14	1900	<i>[Signature]</i> TB/Trace	4/14/21	2340		17.7						
SAMPLER NAME AND SIGNATURE			DATE SIGNED: 4/14/21											
PRINT Name of SAMPLER:														
SIGNATURE of SAMPLER:			<i>[Signature]</i>											



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO#: 35626037
Due Date: 04/20/21
PM: CTR
CLIENT: 36-ESCON

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

Thermometer Used: T33 Date: 4/17/21 Time: 2343 Initials: CJA

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 11.6 (Visual) +0.1 (Correction Factor) 1.7 (Actual) Samples on ice, cooling process has begun

Cooler #2 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Cooler #3 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Cooler #4 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Cooler #5 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Cooler #6 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority 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	<p>Preservation Information:</p> <p>Preservative: _____</p> <p>Lot #/Trace #: _____</p> <p>Date: _____ Time: _____</p> <p>Initials: _____</p>
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 checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" 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: _____



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # **WO# : 35626037**
Project Manager: PM: CTR **Due Date:** 04/20/21
Client: CLIENT: 36-ESCON

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

Thermometer Used: T345 Date: 4/14/21 Time: 1541 Initials: AM

State of Origin: _____ For WW projects, all containers verified to ≤6 °C

- Cooler #1 Temp. °C 16.9 (Visual) 0.0 (Correction Factor) 16.9 (Actual) Samples on ice, cooling process has begun
- Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

- Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
- Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 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 checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input 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 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: _____