2018 Second Semiannual Water Quality Monitoring Report

Tomoka Farms Road Landfill, Volusia County

Facility SW WACS No. 27540

January 2018

Submitted To:

Florida Department of Environmental Protection
Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Prepared by:

HDR Engineering, Inc.
1600 Laura Street, Suite 1600
Jacksonville, Florida 32202
(904) 598-8900
(904) 598-8988 fax

Table of Contents

1.0 Introduction 1
2.0 Field Sampling and Laboratory Analysis 1
2.1 Groundwater and Surface Water Sampling 1
2.2 Laboratory Analysis 2
3.0 Groundwater and Surface Water Elevations 2
4.0 Laboratory Results 2
4.1 Groundwater Results 2
4.1.1 Ammonia-N 3
4.1.2 Arsenic 3
4.1.3 Benzene 3
4.1.4 Iron 3
4.1.5 pH 3
4.1.6 Chloride 3
4.1.7 Sodium 4
4.1.8 TDS 4
4.1.9 Vanadium 4
5.0 Conclusions and Recommendations 4
6.0 Professional Certification 6

Figures

Figure 1 Tomoka Farms Road Landfill Site Map
Figure 2 Zone 1 & 2 Groundwater Potentiometric Map
Figure 3 Zone 4 Groundwater Potentiometric Map
Figure 4 Zone 6 Groundwater Potentiometric Map
Figure 5 Florida Aquifer Groundwater Potentiometric Map

List of Tables

Table 1 Groundwater Elevation Data
Table 2 Surface Water Elevation Data
Table 3 Check List of Laboratory Analytical Parameters
Table 4 Summary of Detected Groundwater Parameters, Zone 1-2
Table 5 Summary of Detected Groundwater Parameters, Zone 3-6
Table 6 Summary of Detected Groundwater Parameters, Floridan Aquifer
Table 7 Summary of Detected Surface Water Parameters

Attachments

Attachment 1 Laboratory Reports and Field Data Sheets
Attachment 2 ADaPT EDD Files (CD)

1.0 Introduction

HDR Engineering is submitting the 2018 Second Semiannual Water Quality Monitoring Report for the Tomoka Farms Road Landfill (TFRL) (SW WACS No. 27540) located in Port Orange, on behalf of Volusia County, Florida. This report was prepared in accordance with the North Cell, Class I Landfill permit (Permit No. 0078767-039-SF-MM) issued July 27, 2015 and the Class III Facility Permit (No. 0078767-038-SO-MM) issued July 27, 2015. The semiannual water quality monitoring program includes the Tomoka Farms Road Landfill Class I, North Cell Phase I (open), and South Class I Cell (closed), and the Class III Cell (Permit No. 0078767-038-SO-MM). Semiannual water quality monitoring is to be conducted at the site during May and November each year according to the Monitoring Plan Implementation Schedule (MPIS); and the monitoring report is due to Department of Environmental Protection (FDEP) within 60 days of the completion of lab analysis. The data for the current submission was obtained during the routine semiannual detection-monitoring event conducted from November 5 through 16, 2018. Forty-nine groundwater samples and seven surface water samples were monitored for the parameters outlined in the approved MPIS for the facility. Note that the MPIS requires monitoring groundwater from 50 wells. One monitoring well (B-2) was destroyed before the 2018 Second Semiannual sampling event. The B-2 replacement well is scheduled for installation on December 7, 2018, and the initial sampling report will be submitted to the FDEP under separate cover. The MPIS requires annual sampling in November for monitoring well B-2, so the next full event reporting B-2 will be the 2019 Second Semiannual. The wells monitored are based on an updated list in Attachment A for the Class III Cell Modified Permit (Permit No. 0078767-038-SO-MM). Semiannual groundwater samples and semiannual surface water samples were analyzed for the parameters listed in No. 7 and No. 12 of the MPIS, respectively.

A summary and discussion of the potentiometric elevations across the site, the groundwater and surface water analytical results, and the conclusions based on the November 2018 sampling event are included below.

2.0 Field Sampling and Laboratory Analysis

The groundwater and surface water sampling activities for this semiannual event were conducted from November 5 through 16, 2018 by Pace Analytical Services, Inc., (Pace) under contract with Volusia County (County). A site map showing the monitoring locations is included as Figure 1. Field sampling procedures were performed in accordance with the Quality Assurance Rule, Chapter 62-160 of the Florida Administrative Code (FAC). All field work, sampling methodologies, data evaluation, data Quality Assurance/Quality Control (QA/QC), and laboratory analyses were conducted in accordance with the site permit and applicable FDEP Standard Operating Procedures (SOPs). A description of the field and laboratory activities is provided in the following paragraphs.

2.1 Groundwater and Surface Water Sampling

The depth to groundwater was measured to the nearest 0.01 ft referenced to the top of the PVC casing prior to purging each well. The water table elevations were calculated by subtracting the

depth to water measurement from the reference datum. The groundwater elevation data is provided in Table 1. The surface water levels (staff gage readings) for SW-2 through SW-5 and SW-11 through SW-12 were measured, and the calculated surface water elevations are provided in Table 2. Groundwater samples for those wells with WACS Report Type of SEMGW and ANNGW were collected during this monitoring event (Table 1). Each monitoring well was purged and sampled using a peristaltic pump after field measured parameters (pH, conductivity, temperature, dissolved oxygen, and turbidity) reached stability in accordance with FDEP SOPs. Field parameters were recorded in field-sampling logs (Attachment 1) during purging and at the time of sampling. The groundwater wells sampled during this semiannual event are listed in Tables 4 through 6 (23 wells in Zone 1-2, 21 wells in Zone 3-4, 2 wells in Zone 6, and 3 wells in the Floridan aquifer). Seven surface water samples (Table 2 & 7) were also collected during the sampling event. The collected samples were placed on ice and shipped to the PACE laboratory under signed chain of custody documentation. A trip blank and equipment blank were also included in the laboratory analyses.

2.2 Laboratory Analysis

The parameters listed in the MPIS for the facility for groundwater and surface water samples were analyzed during this event. Table 3 lists the parameters and the analytical methods. The groundwater analytical results were evaluated based on the primary drinking water standards (PDWS) and secondary drinking water standards (SDWS) listed in Chapter 62-550, FAC and the Groundwater Cleanup Target Levels (GCTL) listed in Chapter 62-777, FAC. Surface water samples were evaluated based on the surface water criteria listed in Chapter 62-302.530, F.A.C.

3.0 Groundwater and Surface Water Elevations

The groundwater and surface water elevations, calculated from November 5, 2018 water level measurements, are shown in Tables 1 and 2, respectively. The groundwater potentiometric maps for aquifer Zones 1-2, 3-4, 6, and the Florida aquifer are included in Figures 2 through 5, respectively. The groundwater potentiometric maps indicate a north and northeasterly groundwater flow direction for all aquifer zones across the TFRLF. These groundwater flow directions across the site are similar to historical groundwater flow determinations.

Surface water elevations are shown in Table 2. The surface water levels are comparable to the groundwater levels at nearby wells for Zone 1-2 (Figure 2).

4.0 Laboratory Results

4.1 Groundwater Results

Groundwater parameters that reported levels above the PDWS, SDWS, and GCTL standards during this sampling event include ammonia, arsenic, benzene, chloride, iron, sodium, total dissolved solids (TDS), vanadium, and pH. A summary of the groundwater parameters detected above their respective detection limits are included in Table 4 (Surficial Zone 1-2), Table 5 (Surficial Zones 3 and 4), and Table 6 (Zone 6 and Floridan aquifer). The full laboratory analytical results and field

sampling logs provided by Pace are included in Attachment 1. The parameter exceedances are detailed below:

4.1.1 Ammonia-N

Ammonia-N was detected above the GCTL of 2.8 milligrams per liter (mg/L) in Zone 1-2 compliance wells B-74 (4.7 mg/L) and B75 (3.1 mg/L); Zone 4 compliance wells B85 (19.1 mg/L), B1-B (6.1 mg/L),and MO5-B (4.6 mg/L); and Zone 6 compliance well B85-6 (19.9 mg/L). These detections are consistent with the historic results at these wells. Ammonia did not exceed the GCTL in the Floridan aquifer. The likely source of groundwater ammonia-N is from microbial degradation of organics including plant and animal tissues and discarded materials (see detail in the HDR response letter to DEP dated October 9, 2015).

4.1.2 Arsenic

Arsenic was detected above the PDWS of 10 µg/L in one Zone 1-2 groundwater compliance wells B39 (11.3 µg/L), B45-2 (19.8 µg/L, and B75 (25.6 µg/L). Arsenic was detected below the PDWS limit in other Zone 2 and Zone 3-4 wells at levels from 1I to 6.1 µg/L). Arsenic has historically been detected above the PDWS in the groundwater at the landfill. Arsenic was not detected in other groundwater wells during this event.

4.1.3 Benzene

Benzene was detected above the PDWS of 1.0 µg/L in Zone 1-2 well B74 (3.3 µg/L), Zone 4 compliance well B37-1 (5.9 µg/L), Zone 4 background well B36 (1.8 µg/L), and Zone 6 compliance well B85-6 1.3 µg/L). Benzene was not detected in the other wells during this event.

4.1.4 Iron

Iron was detected above the SDWS of 300 µg/L in all Zone 1-2 groundwater monitoring wells ranging from 518 to 62,200 µg/L, all Zone 3-4 wells ranging from 1,390 to 57,600 µg/L, both Zone 6 wells (B85-6 at 12,700 and B87-6 at 4,320 µg/L), and in Florida aquifer wells FA-1B (403 µg/L) and FA-2C (719 µg/L). These detections are consistent with the historical results. Historical groundwater quality data indicate elevated iron concentrations in wells are typical groundwater at TFRL.

4.1.5 pH

The pH levels were below the SDWS pH lower limit of 6.5 in fifteen of the twenty-three wells in Zone 1-2, fifteen of the twenty-one wells in Zone 3-4, and in one of the two wells in Zone 6. The pH values were within the SDWS range for pH in the Floridan aquifer. Historically, field pH values in most of the surficial aquifer at the TFRL have been below the SDWS lower limit.

4.1.6 Chloride

Chloride concentrations exceeding the SDWS of 250 mg/L were detected in Zone 4 wells B-36 (254 mg/L) and B8-2 (552 mg/L). Chloride was not detected above the SDWS in Zone 1-2 wells, Zone 6

wells, Floridan aquifer wells or other Zone 4 wells during this event. In a letter dated October 26, 2009, the FDEP indicated that implementation of evaluation monitoring for chloride is not required. Therefore, no additional actions are recommended at this time.

4.1.7 Sodium

Sodium was detected at or above the PDWS of 160 mg/L in Zone 4 well B37-1 (191 mg/L) and in Zone 6 well B85-6 (166 mg/L). Sodium was not detected above the PDWS in other wells during this event. In a letter dated October 26, 2009, the FDEP indicated that implementation of evaluation monitoring for sodium is not required. Therefore, no additional action is recommended at this time.

4.1.8 TDS

TDS concentrations exceeding the SDWS, of 500 mg/L, were detected in four Zone 1-2 wells ranging from 521 to 878 mg/L, seven Zone 3-4 wells ranging from 672 to 1,230 mg/L, and one Zone 6 well at 1,280 mg/L. TDS was not detected above the SDWS in the Floridan aquifer. TDS has historically exceeded the SDWS at the TFRL.

4.1.9 Vanadium

Vanadium was detected above the GCTL of 49 µg/L in Zone 1-2 well B-39 at 59.5 µg/L during this event. Vanadium was detected in several Zone 1-2, 3-4, 6 and Floridan aquifer wells typically less than 12 µg/L with the exception of Zone 3-4 well B8-2 which reported 32.1 µg/L.

4.2 Surface Water Quality Results

Surface water quality samples were collected on November 16, 2018, by Pace from seven surface water sampling locations: SW-1, SW-2, SW-3, SW-4, SW-5, SW-11, and SW-12. The pH was detected within the Class III fresh water range (6.0 – 8.5 S.U.) in all surface water samples. Iron was detected in SW-11 above the Class III Standard of 1000 µg/L. Ammonia-N was detected above the Class III Standard in SW-4. No other parameters were detected above any surface water standards.

5.0 Conclusions and Recommendations

The findings from the 2018 second semiannual sampling event indicate a northeasterly groundwater flow direction. The parameters detected above the groundwater and surface water standards at the site are comparable to historical data. Parameters that exceeded groundwater standards include ammonia, arsenic, benzene, chloride, iron, sodium, TDS, vanadium, and pH. Surface water parameters detected above their respective Class III criteria during the 2018 second semiannual sampling event include ammonia-N and iron. Groundwater and surface water sampling results are consistent with historical data. Most parameters indicated decreasing trends relative to historical data. Ammonia-N was detected in the surface water above the detection limit at 5.6 mg/L, but no actions are recommended. The current groundwater and surface water monitoring networks are intact and it is recommended to continue groundwater and surface

water monitoring in accordance with the MPIS in the current permit. Note that monitoring well B-2 has been replaced, and documentation will be submitted to the Department under separate cover. Active assessment monitoring and remedial status and evaluation monitoring is ongoing in the TFRL B5/B37 area. However, monitoring and reporting requirements have been changed from semiannual to annual.

6.0 Professional Certification

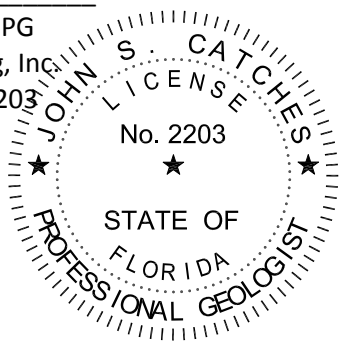
This document has been prepared under my direction in general accordance with Chapter 62-701, Florida Solid Waste Management Facility Regulations. The information contained within this report is to the best of my knowledge and belief, true, accurate, and complete.

Catches, John

Digitally signed by Catches, John
DN: E=John.Catches@hdrinc.com, CN="Catches, John", OU=Users, OU=Jacksonville-200 West Forsyth St, OU=Florida, OU=United States, OU=Offices, DC=intranet, DC=hdr
Location: HDR Jacksonville
Reason: I am the author of this document
Contact Info: (904)598-8900
Date: 2019.01.23 13:02:21-05'00'

_____

John S. Catches, PG
HDR Engineering, Inc.
FL License No. 2203



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Tomoka Farms Road Landfill

Address 1990 Tomoka Farms Road

City Port Orange Zip 32128 County Volusia

Telephone Number (386) 947-2952

(2) WACS Facility ID 64-00027540

(3) DEP Permit Number 0078767-039-SF-01

(4) Authorized Representative's Name Regina Montgomery Title Division Director

Address 1990 Tomoka Farms Road

City Port Orange Zip 32128 County Volusia

Telephone Number (386) 947-2952

Email address (if available) RMontgomery@volusia.org

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

1/22/2019 (Date)

Regina Montgomery (Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization 860198

Analytical Lab NELAC / HRS Certification # E83079

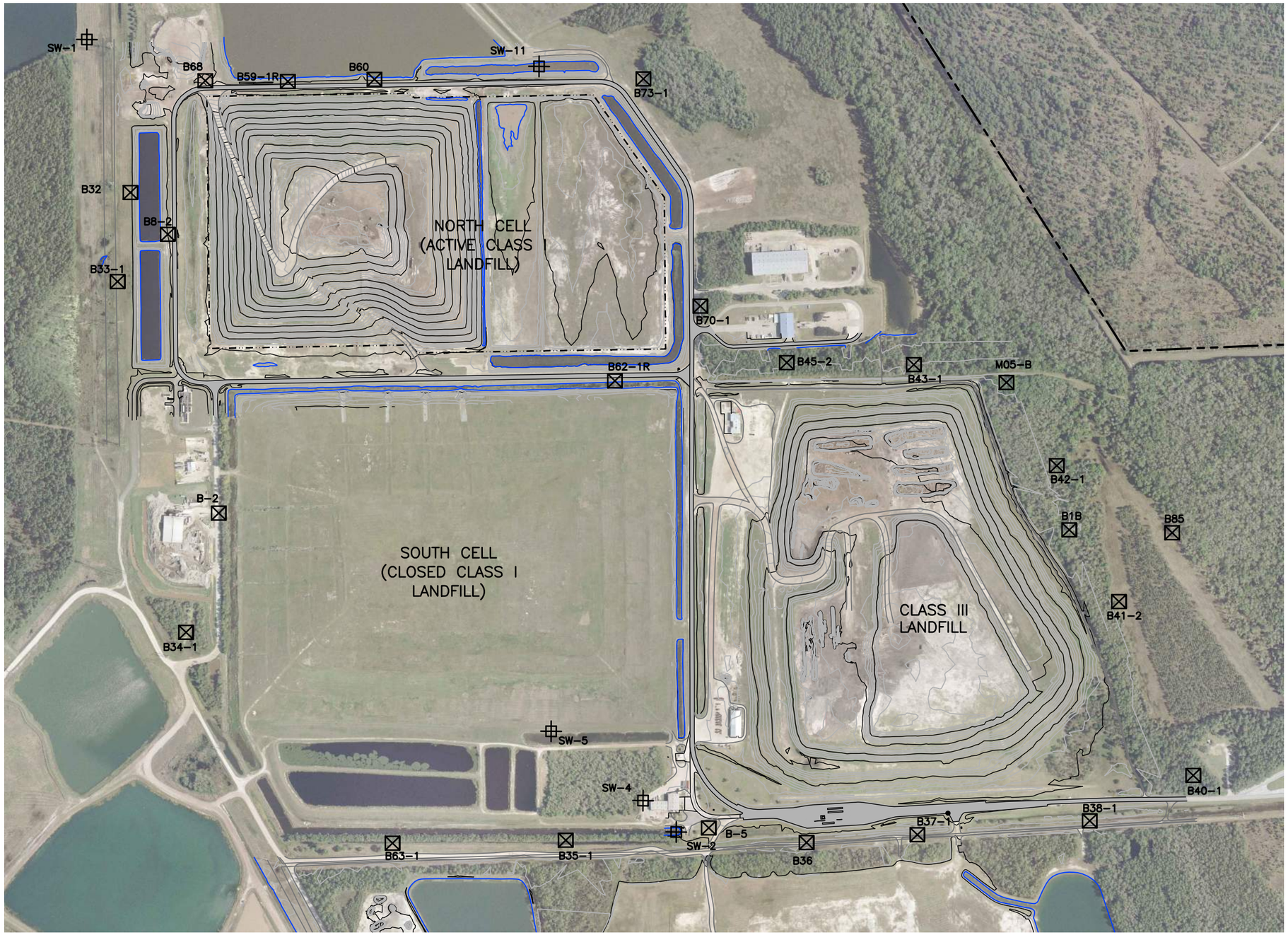
Lab Name PACE Analytical Services, Inc.

Address 8 East Tower Circle, Ormand Beach, FL 32174

Phone Number (386) 672-5668

Email address (if available) Jeff.Baylor@pacelabs.com

Figures



N

SCALE IN FEET

−600 0 600 1200

LEGEND

B37−1	MONITORING WELL
SW−1	SURFACE WATER SAMPLING LOCATION
	FACILITY BOUNDARY
	WASTE UNIT BOUNDARY

C:\pwworking\east01\d0813045\Figure 1.dwg, 12/28/2018 9:57:43 AM, DWG To PDF.pc3

PROJECT TITLE TOMOKA FARMS ROAD LANDFILL

SHEET TITLE SITE MAP

PROJECT NUMBER 10114253

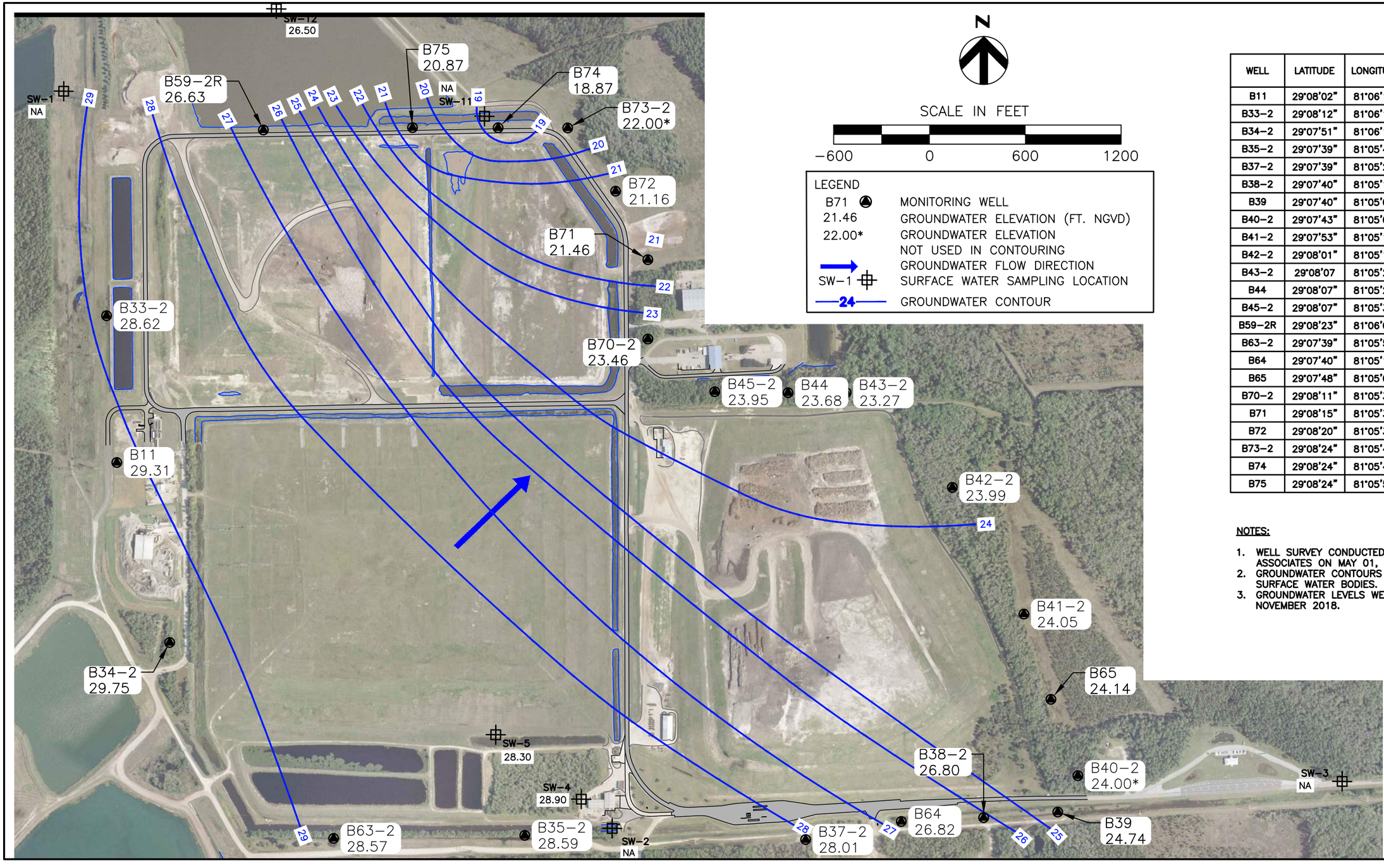
PROJECT MANAGER J. CATCHES

DATE 12/2018

REFERENCE SHEET

REFERENCE DOCUMENT

EXHIBIT NUMBER FIGURE 1



WELL	LATITUDE	LONGITUDE	TOP OF CASING ELEVATION (NGVD)
B11	29°08'02"	81°06'14"	32.95
B33-2	29°08'12"	81°06'14"	32.97
B34-2	29°07'51"	81°06'11"	31.20
B35-2	29°07'39"	81°05'46"	29.34
B37-2	29°07'39"	81°05'25"	28.76
B38-2	29°07'40"	81°05'13"	28.12
B39	29°07'40"	81°05'08"	29.09
B40-2	29°07'43"	81°05'07"	27.67
B41-2	29°07'53"	81°05'11"	29.27
B42-2	29°08'01"	81°05'16"	28.47
B43-2	29°08'07	81°05'23"	28.23
B44	29°08'07"	81°05'27"	30.03
B45-2	29°08'07"	81°05'32"	30.35
B59-2R	29°08'23"	81°06'05"	33.12
B63-2	29°07'39"	81°05'59"	30.38
B64	29°07'40"	81°05'19"	28.22
B65	29°07'48"	81°05'09"	27.97
B70-2	29°08'11"	81°05'37"	31.51
B71	29°08'15"	81°05'37"	30.75
B72	29°08'20"	81°05'39"	28.93
B73-2	29°08'24"	81°05'42"	28.95
B74	29°08'24"	81°05'47"	33.78
B75	29°08'24"	81°05'53"	31.62

NOTES:

1. WELL SURVEY CONDUCTED BY SLIGER & ASSOCIATES ON MAY 01, 2009.
2. GROUNDWATER CONTOURS DO NOT INCLUDE THE SURFACE WATER BODIES.
3. GROUNDWATER LEVELS WERE MEASURED IN NOVEMBER 2018.

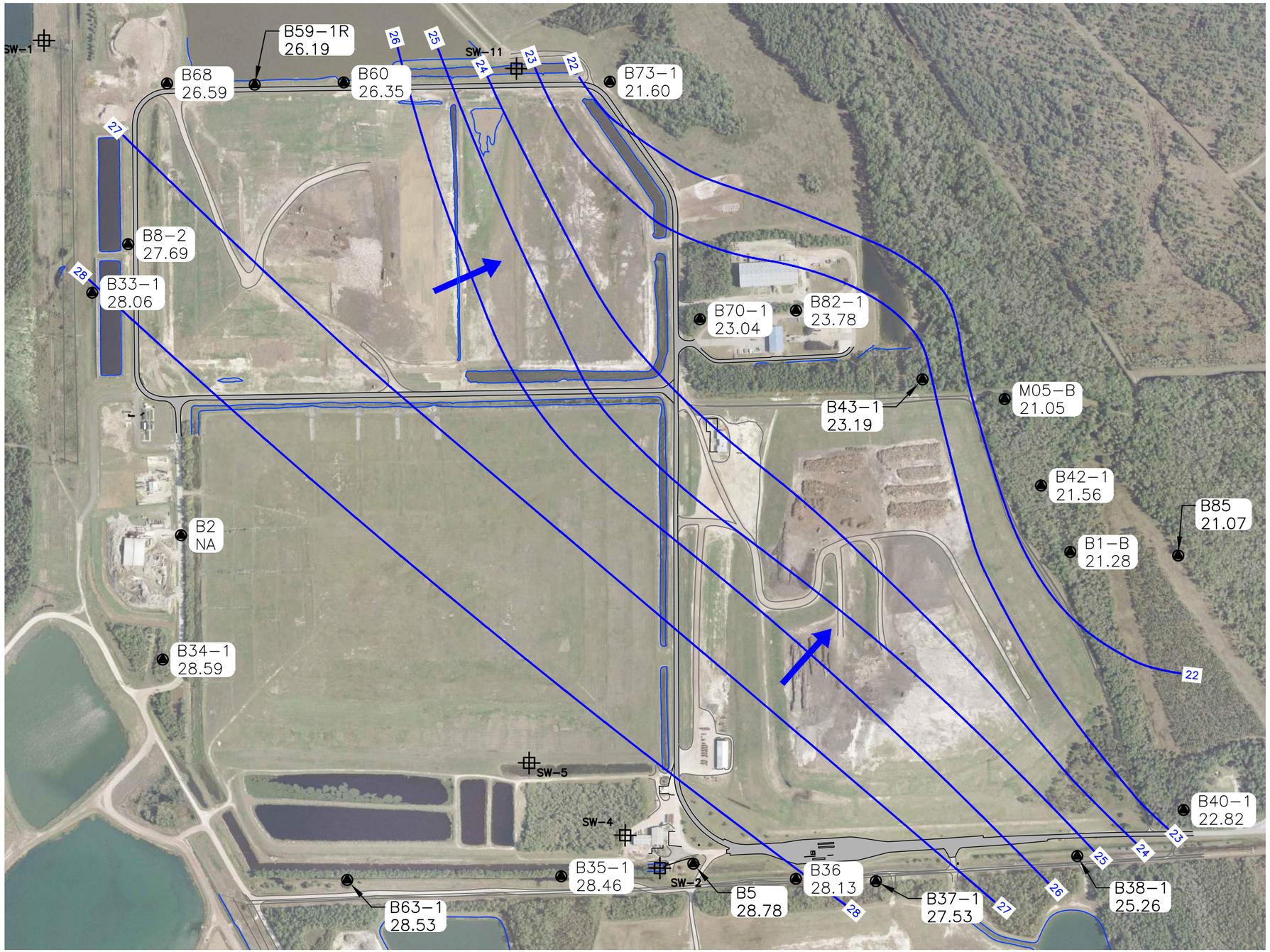
PROJECT TITLE TOMOKA FARMS ROAD LANDFILL

SHEET TITLE
ZONES 1 & 2 GROUNDWATER POTENTIOMETRIC MAP
2ND 2018 SEMIANNUAL SAMPLING EVENT

PROJECT NUMBER 10114253
PROJECT MANAGER J. CATCHES
DATE 12/2018

REFERENCE SHEET
REFERENCE DOCUMENT
EXHIBIT NUMBER FIGURE 2

C:\pwworking\east01\d0813045\Figure 2.dwg, 1/2/2019 2:15:20 PM, DWG To PDF.pc3



N

SCALE IN FEET

−600 0 600 1200

LEGEND

B70−1 ●	MONITORING WELL
23.04	GROUNDWATER ELEVATION (FT. NGVD)
→	GROUNDWATER FLOW DIRECTION
SW−1 ⊕	SURFACE WATER SAMPLING LOCATION
—27—	GROUNDWATER CONTOUR

WELL	LATITUDE	LONGITUDE	TOP OF CASING ELEVATION (NGVD)
B1−B	29°07'57"	81°05'14"	28.78
B2	29°07'58"	81°06'09"	34.53
B5	29°07'40"	81°05'38"	32.59
B8−2	29°08'14"	81°06'11"	33.37
B33−1	29°08'12"	81°06'14"	34.69
B34−1	29°07'51"	81°06'11"	31.19
B35−1	29°07'39"	81°05'46"	29.26
B36	29°07'39"	81°05'31"	29.33
B37−1	29°07'39"	81°05'25"	28.63
B38−1	29°07'40"	81°05'13"	28.24
B40−1	29°07'43"	81°05'07"	27.77
B42−1	29°08'01"	81°05'16"	28.30
B43−1	29°08'07"	81°05'23"	28.09
B59−1R	29°08'23"	81°06'05"	32.44
B60	29°08'24"	81°05'59"	32.95
B63−1	29°07'39"	81°05'59"	30.03
B68	29°08'23"	81°06'10"	32.98
B70−1	29°08'11"	81°05'37"	31.03
B73−1	29°08'24"	81°05'42"	29.20
M05−B	29°08'06"	81°05'18"	29.80
B82−1	29°08'11"	81°05'30"	30.78
B85	29°07'57"	81°05'06"	27.07

NOTES:

1. WELL SURVEY CONDUCTED BY SLIGER & ASSOCIATES ON MAY 01, 2009.
2. GROUNDWATER LEVELS WERE MEASURED IN NOVEMBER 2018.

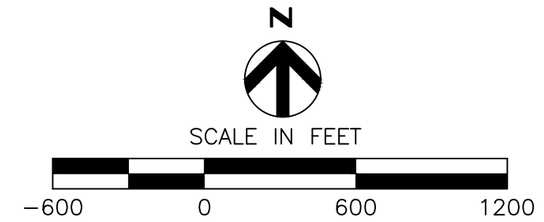
PROJECT TITLE TOMOKA FARMS ROAD LANDFILL

SHEET TITLE
ZONE 4 GROUNDWATER POTENTIOMETRIC MAP
2ND 2018 SEMIANNUAL SAMPLING EVENT

PROJECT NUMBER 10114253
PROJECT MANAGER J. CATCHES
DATE 12/2018

REFERENCE SHEET
REFERENCE DOCUMENT
EXHIBIT NUMBER FIGURE 3

C:\pwworking\east01\d0813045\Figure 3.dwg, 12/28/2018 9:57:55 AM, DWG To PDF.pc3



LEGEND

B87-6 ▲	MONITORING WELL
20.49	GROUNDWATER ELEVATION (FT. NGVD)
→	GROUNDWATER FLOW DIRECTION
SW-1 ⌖	SURFACE WATER SAMPLING LOCATION
—20—	GROUNDWATER CONTOUR

WELL	LATITUDE	LONGITUDE	TOP OF CASING ELEVATION (NGVD)
B85-6	29°07'57"	81°05'05"	27.02
B87-6	29°08'15"	81°05'26"	29.37

NOTES:

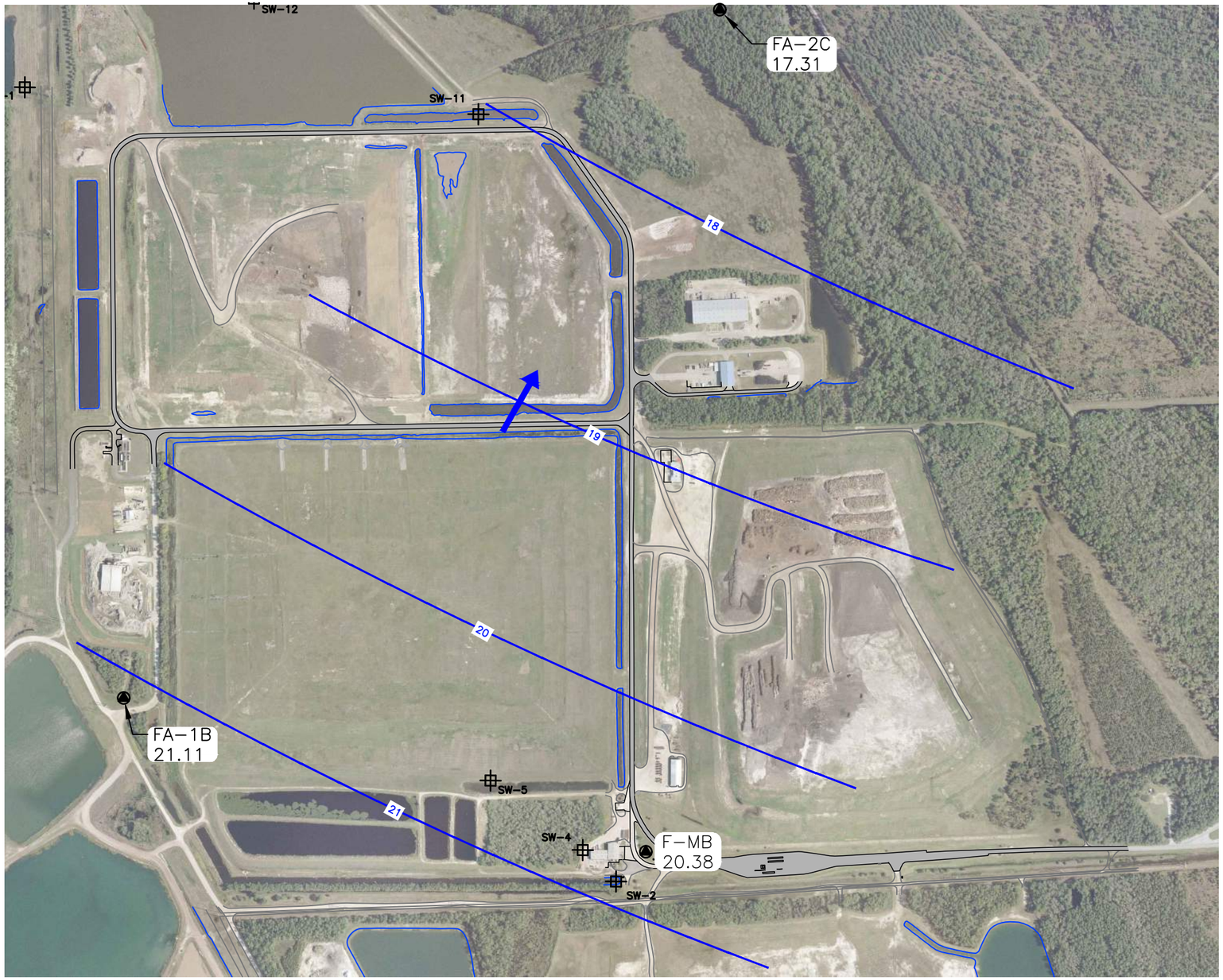
1. WELL SURVEY CONDUCTED BY SLIGER & ASSOCIATES ON MAY 01, 2009.
2. GROUNDWATER LEVELS WERE MEASURED IN NOVEMBER 2018.

C:\pwworking\east01\d0813045\Figure 4.dwg, 12/28/2018 10:01:47 AM, DWG To PDF.pc3

PROJECT TITLE: TOMOKA FARMS ROAD LANDFILL

SHEET TITLE: ZONE 6 GROUNDWATER POTENTIOMETRIC MAP
2ND 2018 SEMIANNUAL SAMPLING EVENT

PROJECT NUMBER: 10114253	REFERENCE SHEET:
PROJECT MANAGER: J. CATCHES	REFERENCE DOCUMENT:
DATE: 12/2018	EXHIBIT NUMBER: FIGURE 4



N

SCALE IN FEET

−700 0 700 1400

LEGEND

FA−2C	MONITORING WELL
17.31	GROUNDWATER ELEVATION (FT. NGVD)
	GROUNDWATER FLOW DIRECTION
SW−1	SURFACE WATER SAMPLING LOCATION
18	GROUNDWATER CONTOUR

WELL	LATITUDE	LONGITUDE	TOP OF CASING ELEVATION (NGVD)
FA−1B	29°07'51"	81°06'11"	32.22
FA−2C	29°08'31"	81°05'32"	28.10
F−MB	29°07'42"	81°05'36"	33.88

NOTES:

1. WELL SURVEY CONDUCTED BY SLIGER & ASSOCIATES ON MAY 01, 2009.
2. GROUNDWATER LEVELS WERE MEASURED IN NOVEMBER 2018.

PROJECT TITLE TOMOKA FARMS ROAD LANDFILL

SHEET TITLE
FLORIDAN AQUIFER GROUNDWATER POTENTIOMETRIC MAP
2ND 2018 SEMIANNUAL SAMPLING EVENT

PROJECT NUMBER 10114253
PROJECT MANAGER J. CATCHES
DATE 12/2018

REFERENCE SHEET
REFERENCE DOCUMENT
EXHIBIT NUMBER FIGURE 5

C:\pwworking\east01\d0813045\Figure 5.dwg, 1/2/2019 2:17:26 PM, DWG To PDF.pc3

Tables

Table 1
Groundwater Elevation Data
2018 Second Semiannual Compliance Monitoring Event
Tomoka Farms Landfill
Monitoring Date: November 5, 2018

Well ID	Aquifer Zone	WACS Report Type	Top of Casing (feet, NGVD)	Depth to Water (ft below TOC)	Groundwater Elevation (ft, NGVD)
Zone 1 & 2					
B11	1-2	SEMGW	32.95	3.64	29.31
B33-2	1-2	SEMGW	32.97	4.35	28.62
B34-2	1-2	SEMGW	31.20	1.45	29.75
B35-2	1-2	SEMGW	29.34	0.75	28.59
B37-2	1-2	SEMGW	28.76	0.75	28.01
B38-2	1-2	SEMGW	28.12	1.32	26.80
B-39	1-2	SEMGW	29.09	4.35	24.74
B40-2	1-2	SEMGW	27.67	3.67	24.00
B41-2	1-2	SEMGW	29.27	5.22	24.05
B42-2	1-2	SEMGW	28.47	4.48	23.99
B43-2	1-2	SEMGW	28.23	4.96	23.27
B44	1-2	SEMGW	30.03	6.35	23.68
B45-2	1-2	SEMGW	30.35	6.40	23.95
B59-2R	1-2	SEMGW	33.12	6.49	26.63
B63-2	1-2	SEMGW	30.38	1.81	28.57
B64	1-2	SEMGW	28.22	1.40	26.82
B65	1-2	SEMGW	27.97	3.83	24.14
B70-2	1-2	SEMGW	31.51	8.05	23.46
B71	1-2	SEMGW	30.75	9.29	21.46
B72	1-2	SEMGW	28.93	7.77	21.16
B73-2	1-2	SEMGW	28.95	6.95	22.00
B74	1-2	SEMGW	33.78	14.91	18.87
B75	1-2	SEMGW	31.62	10.75	20.87
Zone 4					
B-1B	4	ANNGW	28.78	7.50	21.28
B-2	4	ANNGW	34.53	NA	NA
B-5	4	ANNGW	32.59	3.81	28.78
B8-2	4	ANNGW	33.37	5.68	27.69
B33-1	4	ANNGW	34.69	6.63	28.06
B34-1	4	ANNGW	31.19	2.60	28.59
B35-1	4	ANNGW	29.26	0.80	28.46
B-36	4	ANNGW	29.33	1.20	28.13
B37-1	4	ANNGW	28.63	1.10	27.53
B38-1	4	ANNGW	28.24	2.98	25.26
B40-1	4	ANNGW	27.77	4.95	22.82
B42-1	4	ANNGW	28.30	6.74	21.56
B43-1	4	SEMGW	28.09	4.90	23.19

Well ID	Aquifer Zone	WACS Report Type	Top of Casing (feet, NGVD)	Depth to Water (ft below TOC)	Groundwater Elevation (ft, NGVD)
B59-1R	4	ANNGW	32.44	6.25	26.19
B60	4	ANNGW	32.95	6.60	26.35
B63-1	4	ANNGW	30.03	1.50	28.53
B68	4	ANNGW	32.98	6.39	26.59
B70-1	4	ANNGW	31.03	7.99	23.04
B73-1	4	ANNGW	29.20	7.60	21.60
MO5-B	4	ANNGW	29.80	8.75	21.05
B82-1	4	SEMGW	30.78	7.00	23.78
B85	4	SEMGW	27.07	6.00	21.07
Zone 6					
B85-6	6	SEMGW	27.02	6.05	20.97
B87-6	6	SEMGW	29.37	8.88	20.49
Floridian Aquifer					
FA-1B	FL	SEMGW	32.22	11.11	21.11
FA-2C	FL	SEMGW	28.10	10.79	17.31
F-MB	FL	SEMGW	33.88	13.5	20.38

Notes: btoc = below top of casing;

NGVD = National Geodetic Vertical Datum of 1929.

Table 2
Surface Water Elevation Data
Tomoka Farms Road, Volusia County, Florida
2nd Semiannual 2018 Compliance Monitoring Event
Monitoring Date: November 5, 2018

Location	Staff Gage Reference	Staff Gage Reading	Surface Water Elevation
	Elevation (NGVD)	(feet)	(NGVD)
SW-1	NA*	NA	NA
SW-2	24	5.6	29.6
SW-3	21	2.15	23.15
SW-4	26	3.6	29.6
SW-5	24	4.45	28.45
SW-11	17	1.15	18.15
SW-12	22	5.9	27.9

*Note: FDOT removed the staff Gage during construction of the area.

Table 3

Check List of Laboratory Analytical Parameters for Groundwater and Surface Water

Parameters	Method	Groundwater	Surface Water
Appendix I Metals	EPA 6010/6020	X	X
Volatile Organic Compounds	EPA 8260	X	X
1,2-Dibromo-3-chloropropane	EPA 8011	X	X
1,2-Dibromoethane	EPA 8011	X	X
Ammonia-N	EPA 350.1 No Distillation	X	X
Iron & Sodium	EPA 6010	X	x
Mercury	EPA 1631/7470	X	X
Nitrate-N	EPA 300.0 (Nitrate (N))	X	X
TDS	SM18 2540 C	X	X
Chloride	EPA 300.0 (Chloride)	X	NA
TSS	SM18 2540 D	NA	X
Carbon- Total Organic	SM18 5310 B	NA	X
Chlorophyll a	SM18 10200 H	NA	X
BOD	SM18 5210 B	NA	X
COD	EPA 410.4	NA	X
Coliform Fecal	SM18 9222 D (MF)	NA	X
Hardness- Calculated	SM18 2340 B	NA	X
Nitrate-Nitrite (N)	EPA 353.2 (Nitrate-Nitrite (N))	NA	X
Nitrogen- Total	SM18 Total N (TKN+NO2+NO3)	NA	X
Nitrogen- Total Kjeldahl	EPA 351.2	NA	X
Phosphorus- Total	EPA 365.4	NA	X

Note: X - Parameter was analyzed;

NA - Parameter was not analyzed.

Table 4
Summary of Detected Groundwater Parameters, Surficial Zone 1-2 Wells
Tomoka Farm Road Landfill, Volusia County
2018 Second Semiannual Monitoring
Sampling Date: November 5 to 16, 2018

Parameter	Standard	Detected Results																						Units
		B-11	B33-2	B34-2	B35-2	B37-2	B38-2	B-39	B40-2	B41-2	B42-2	B43-2	B44	B45-2	B59-2R	B63-2	B64	B65	B70-2	B71	B72	B73-2	B74	B75	
Field Measured Parameters																								
Dissolved Oxygen	NS	0.33	2.8	0.17	1.82	0.29	2.87	0.33	0.38	0.17	0.42	0.71	0.87	1.23	1.08	3	1.33	0.3	1.43	1.64	3.75	1.45	1.47	1.1	mg/L
ORP	NS	26.6	38.6	-110.7	-81.6	34.2	-62.1	50.1	NM	-68.8	0.2	0.82	97.8	3.19	-42.5	-102.6	-49.6	-6.6	76.6	180.6	133.7	29.4	-7.9	-107.5	mV
pH	6.5-8.5	**5.08**	**6.51**	6.92	**5.07**	**6.49**	**5.90**	**5.04**	**6.16**	6.79	**6.16**	**6.23**	**4.86**	**5.23**	6.79	6.74	**6.07**	**6.14**	**6.08**	**5.25**	**6.42**	**6.03**	**5.56**	**6.19**	S.U.
Specific Conductance	NS	126	811	1448	490	467.1	587	173.2	611	457.9	342.8	778	303	587	710	713	694	549	437	152	453	206	420	1389	uS/cm
Temperature, Water	NS	26.9	24.6	24	23.1	24.5	23.3	24.1	23	21.6	23.5	24.2	24.4	24.4	26.7	24.1	23.9	23.1	25.8	26	26.6	26	27	27	Deg. C
Turbidity	NS	6.87	15.69	15.27	18.63	16.79	9.94	8.14	7.38	1.81	4.07	7.83	12.1	6.21	22.27	17.57	13.12	6.41	13.1	33.14	40.77	10.62	3.2	49.83	NTU
General Chemistry																								
Ammonia (N)	2.8***	0.6	0.41	1.6	0.86	0.49	1.7	1.6	0.78	0.43	0.25	0.063	<0.035	0.074	0.13	0.3	1.6	0.52	<0.035	<0.035	<0.035	<0.035	**4.7**	**3.1**	mg/L
Chloride	250**	12.7	36.4	59	111	17.4	28.9	18.4	25.5	19.6	20.6	38.7	70.8	112	16.9	29.3	20.9	36.4	20.5	5.3	4.2 I	5.5	6.6	129	mg/L
Nitrate (N)	10*	0.038 I	<0.025	1.4	0.026 I	0.035 I	0.13	0.037 I	0.091	<0.025	0.15	0.035 I	0.089	0.063	0.085	0.056	<0.025	<0.025	6.5	1.6	<0.025	0.031 I	0.11	0.043 I	mg/L
Residues- Filterable (TDS)	500**	76	**539**	**878**	261	285	363	113	386	271	232	**521**	175	361	427	423	442	340	259	97	236	126	265	**776**	mg/L
Sodium	160*	7.4	56	27.3	64.5	10	28.2	13.9	21.6	14.5	14.8	37.5	26.7	31.7	22.2	31.5	28.8	27.4	15.9	3.9	4	3.4	7.8	83.1	mg/L
Metals																								
Arsenic	10*	<0.5	5.8	5.9	0.76 I	3.5	2.5	**11.3**	6.2	1.3	1.9	1.6	1.3	**19.8**	2.9	2.1	3.6	3.7	0.77 I	0.95 I	1 I	4.4	6.1	**25.6**	ug/L
Barium	2000*	44.7	66.1	74.9	82.4	26.8	36.6	38.4	34	22	29.2	46	27.3	80.1	85.4	49.5	98.1	41.7	43.5	20.2	28.2	23.7	28.1	164	ug/L
Chromium	100*	5.3	3.1 I	<1.7	4.8 I	<1.7	<1.7	18	<1.7	<1.7	2.4 I	<1.7	2.3 I	<1.7	<1.7	<1.7	<1.7	2 I	<1.7	3.3 I	<1.7	<1.7	<1.7	<1.7	ug/L
Cobalt	140***	<0.96	1.2 I	<0.96	<0.96	<0.96	1.2 I	<0.96	2 I	<0.96	1.1 I	1.9 I	1 I	2.3 I	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	1.1 I	2 I	2 I	ug/L
Copper	1000**	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	3.6 I	<2.6	<2.6	<2.6	ug/L
Iron	300**	**2,740**	**3,060**	**35,900**	**12,700**	**8,510**	**13,500**	**10,700**	**6,340**	**1,240**	**1,560**	**9,560**	**13,400**	**34,200**	**2,710**	**11,300**	**23,900**	**1,790**	**518**	**1,100**	**1,600**	**1,470**	**8,860**	**65,200**	ug/L
Nickel	100*	<2.1	2.8 I	10.2	<2.1	<2.1	2.3 I	6.1	2.2 I	<2.1	<2.1	<2.1	<2.1	3.7 I	<2.1	<2.1	<2.1	2.6 I	<2.1	<2.1	<2.1	<2.1	<2.1	4.3 I	ug/L
Vanadium	49***	22.1	7.1 I	3.4 I	8.9 I	2.5 I	2.4 I	**59.4**	5.6 I	1.8 I	3.5 I	3.8 I	6.9 I	12	5.5 I	2.4 I	2.3 I	5.3 I	7.6 I	9.7 I	11.4	4.2 I	4.8 I	9.8 I	ug/L
Zinc	5000**	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	21.8	70.7	<11	<11	<11	ug/L
VOCs																								
Benzene	1*	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**3.3**	<0.1	ug/L
Chlorobenzene	100*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/L
Iodomethane	NS	<0.5	<0.5	<0.5	1.3 I	<0.5	<0.5	1.2 I	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ug/L
Vinyl chloride	1*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.54 I	<0.5	ug/L
Xylenes- Total	20**	<1.5	<1	<1.5	<1	<1.5	<1.5	<1	<1.5	<1.5	<1.5	<1	<1	<1	<1.5	<1.5	<1	<1.5	<1.5	<1	<1.5	<1.5	4.9	<1.5	ug/L

Note:

* - Primary Drinking Water Standard (62-520 F.A.C.);

** - Secondary Drinking Water Standard (620-520 F.A.C.);

*** - Groundwater Cleanup Tatrget Level (62-777 F.A.C.);

NS - No Standard;

Bold value indicates that the result is above the standard;

I - Analyte detected below the quantitation limit;

< -The parameter was detected below the detection limit (value).

Table 5
Summary of Detected Groundwater Parameters, Surficial Zone 3-4 Wells
Tomoka Farm Road Landfill, Volusia County
2018 Second Semiannual Monitoring
Sampling Date: November 5 to 16, 2018

Parameter	Standard	Detected Results																				Units
		B1-B	B33-1	B34-1	B35-1	B36	B37-1	B38-1	B40-1	B42-1	B43-1	B5	B59-1R	B60	B63-1	B68	B70-1	B73-1	B8-2	B82-1	B85	MO5-B	
Field Measured Parameters																							
Dissolved Oxygen	NS	0.28	0.11	0.59	1.44	1.8	0.14	4.78	0.47	0.38	1.53	0.15	1.36	1.1	0.59	2.6	1.4	0.91	1.66	0.12	0.31	2.56	mg/L
ORP	NS	-51.6	-43.2	-71.9	NM	-105.4	-37.2	115.8	28.41	20	NM	68.4	-104.9	-89.4	-43.1	-63.5	13.5	-97	22.9	-29.1	NM	NM	mV
pH	6.5-8.5	6.55	**6.49**	6.65	**5.20**	**6.18**	6.69	**4.80**	**5.62**	**6.07**	**5.80**	6.88	**6.45**	**6.38**	6.83	**5.77**	**5.30**	**6.48**	**5.02**	**6.28**	6.51	**6.04**	S.U.
Specific Conductance	NS	738	589	1542	296	1960	1540	309	652	613	717	631	568	521	498	1172	251	638	1802	460.3	1785	1060	µS/cm
Temperature, Water	NS	23.9	24.9	22.8	22.1	22.6	24.6	23	23.1	23.5	24	25	25.8	25.6	24	25.7	25.1	24.9	26	25.1	22.4	23.7	Deg. C
Turbidity	NS	3.99	4.82	10.27	10.98	4.46	184.7	1.34	4.99	2.5	13.64	138	1.01	9.01	5.81	0.14	3.49	13.8	116.74	15.8	4.16	0.47	NTU
General Chemistry																							
Ammonia (N)	2.8***	**6.1**	0.26	0.17	0.14	0.34	0.37	0.09	0.26	<0.035	1.8	1.1	1.4	1.6	0.11	2.6	<0.035	0.1	0.16	0.12	**19.1**	**4.6**	mg/L
Chloride	250**	16.1	55.9	60.1	46.9	**254**	213	77.3	77.3	65.9	88.8	9.7	40.7	46.5	38.3	28.6	31.4	11.9	**552**	39.7	127	82.3	mg/L
Nitrate (N)	10*	0.055	0.029 I	<0.025	<0.025	<0.025	<0.025	0.18	0.044 I	0.2	0.034 I	0.83	<0.025	0.066	<0.025	0.11	0.063	0.088	<0.025	0.12	0.058	0.039 I	mg/L
Residues- Filterable (TDS)	500**	381	360	**974**	186	**1,220**	**1,230**	206	476	442	484	354	300	299	302	**802**	151	387	**1,100**	286	**958**	**672**	mg/L
Sodium	160*	29.7	53.8	40.9	26.9	133	**191**	29.5	63.4	68.2	69.6	24.4	43	38.8	46	32.1	26.6	29.3	104	14.9	111	107	mg/L
Metals																							
Arsenic	10*	<0.5	<0.5	1.7	0.54 I	<0.5	0.5 I	<0.5	0.88 I	0.75 I	3.5	1.8	<0.5	0.61 I	<0.5	2.3	1.2	0.53 I	0.77 I	<0.5	<0.5	1.3	µg/L
Barium	2000*	107	37.3	179	79	151	235	107	209	92	165	69.3	83	86.8	38.1	223	32.8	48.8	406	46.5	48.5	180	µg/L
Cadmium	4*	<0.33	<0.33	<0.33	<0.33	<0.33	0.42 I	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	µg/L
Chromium	100*	<1.7	2.1 I	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	1.7 I	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	3.6 I	2.8 I	µg/L
Cobalt	140***	<0.96	<0.96	<0.96	1.1 I	3.2 I	2 I	<0.96	<0.96	<0.96	1.3 I	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	2.3 I	2.1 I	µg/L
Iron	300**	**10,900**	**10,100**	**36,800**	**8,980**	**6,410**	**48,600**	**22,200**	**25,700**	**1,390**	**29,900**	**16,000**	**4,580**	**4,310**	**2,540**	**45,400**	**7,040**	**13,600**	**57,600**	**11,600**	**6,220**	**11,400**	µg/L
Nickel	100*	<2.1	<2.1	2.7 I	<2.1	2.2 I	2.4 I	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	2.6 I	<2.1	2.4 I	µg/L
Vanadium	49***	1.6 I	3.8 I	1.1 I	1.8 I	1.8 I	1.8 I	1.2 I	2 I	<1	2 I	<1	2 I	2 I	1.1 I	2.9 I	1.6 I	1.1 I	32.1	5.8 I	4.2 I	2.8 I	µg/L
VOCs																							
1,1-Dichloroethane	70***	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	µg/L
1,4-Dichlorobenzene	75*	<0.5	<0.5	<0.5	<0.5	0.53 I	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.89 I	<0.5	µg/L
Benzene	1*	<0.1	<0.1	<0.1	<0.1	**1.8**	**5.9**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.17 I	<0.1	µg/L
Chlorobenzene	100*	<0.5	<0.5	<0.5	<0.5	3.5	4.9	<0.5	<0.5	<0.5	0.6 I	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.2	<0.5	µg/L
Iodomethane	NS	<0.5	<0.5	<0.5	2 I	2 I	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	µg/L
Toluene	40**	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	µg/L
Xylenes- Total	20**	<1.5	<1.5	<1.5	<1	<1	4.3	<1.5	<1.5	<1.5	<1	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1	<1.5	<1.5	<1	µg/L

Note:

* - Primary Drinking Water Standard (62-520 F.A.C.);

** - Secondary Drinking Water Standard (620-520 F.A.C.);

*** - Groundwater Cleanup Tatrget Level (62-777 F.A.C.);

NS - No Standard;

Bold value indicates that the result is above the standard;

I - Analyte detected below the quantitation limit;

< -The parameter was detected below the detection limit (value).

Table 6
Summary of Detected Groundwater Parameters, Floridan Aquifer Wells
Tomoka Farm Road Landfill, Volusia County
2018 Second Semiannual Monitoring
Sampling Date: November 5 to 16, 2018

Parameter	Standard	Detected Results					Units
		B85-6	B87-6	FA-1B	FA-2C	F-MB	
Field Measured Parameters							
Dissolved Oxygen	NS	0.14	0.11	0.19	0.09	0.09	mg/L
ORP	NS	-46.8	-72.1	-60.6	-107.7	-29.2	mV
pH	6.5-8.5**	**6.44**	6.86	7.13	7.52	7.11	S.U.
Specific Conductance	NS	2245	685	575	712	622	µS/cm
Temperature, Water	NS	22.6	23.1	22.2	21.8	23.4	Deg. C
Turbidity	NS	90.3	11.8	0.72	0.21	8.47	NTU
General Chemistry							
Ammonia (N)	2.8***	**19.9**	0.13	0.54	0.47	0.36	mg/L
Chloride	250**	204	28.2	13.5	61.5	21.1	mg/L
Nitrate (N)	10*	0.091	0.032 I	<0.025	<0.025	<0.025	mg/L
Residues- Filterable (TDS)	500**	**1280**	431	311	403	340	mg/L
Sodium	160*	**166**	25.3	10.4	46	17	mg/L
Metals							
Arsenic	10*	2.6	<0.5	<0.5	<0.5	<0.5	µg/L
Barium	2000*	55.3	28	21	21.3	18.8	µg/L
Chromium	100*	6.5	<1.7	<1.7	<1.7	<1.7	µg/L
Cobalt	140***	3.2 I	<0.96	<0.96	<0.96	<0.96	µg/L
Iron	300**	**12700**	**4320**	**403**	**719**	99.9	µg/L
Nickel	100*	2.4 I	<2.1	<2.1	<2.1	<2.1	µg/L
Vanadium	49***	11.8	2.4 I	1.1 I	1 I	<1	µg/L
VOCs							
1,4-Dichlorobenzene	75*	0.69 I	<0.5	<0.5	<0.5	<0.5	µg/L
Benzene	1*	**1.3**	<0.1	<0.1	<0.1	<0.1	µg/L
Chlorobenzene	100*	4.1	<0.5	<0.5	<0.5	<0.5	µg/L
Iodomethane	NS	<0.5	<0.5	1.5 I	1.5 I	1.3 I	µg/L
Toluene	40**	<0.5	<0.5	0.66 I	<0.5	<0.5	µg/L

Note:

* - Primary Drinking Water Standard (62-520 F.A.C.);

** - Secondary Drinking Water Standard (620-520 F.A.C.);

*** - Groundwater Cleanup Tatrget Level (62-777 F.A.C.);

NS - No Standard;

Bold value indicates that the result is above the standard;

I - Analyte detected below the quantitation limit;

< -The parameter was detected below the detection limit (value).

Table 7
Summary of Detected Surface Water Parameters
Tomoka Farm Road Landfill, Volusia County
2018 Second Semiannual Monitoring
Sampling Date: November 16, 2018

Parameter	Class III Standard[σ]	Detected Results							Units
		SW-1	SW-2	SW-3	SW-4	SW-5	SW-11	SW-12	
Field Measured Parameters									
Dissolved Oxygen	NA	4.09	5.07	0.89	1.32	5.86	2.99	5.21	mg/L
ORP	NA	35.3	18.8	34.8	29.7	39.2	NM	50.5	mV
pH	6-8.5	8.02	7.72	6.59	7.35	8.20	7.68	8.50	S.U.
Specific Conductance	NS	227.1	210.6	128.4	234.3	488	517	426.1	µS/cm
Temperature, Water	NS	27.3	23.5	24.9	23.7	26.1	26.8	26.2	Deg. C
Turbidity	<29 NTU above background	10.4	3.45	1.41	5.87	4.3	28.9	47	NTU
General Chemistry									
Ammonia (N)	Result	<0.035	1.3	<0.035	**5.6**	0.29	0.19	<0.035	mg/L
	Cal. Std*	1.33	1.70	1.55	1.67	1.43	1.37	1.43	mg/L
BOD	NS	<2	5.1	7.8	13.6	3.2	3.3	4.5	mg/L
Carbon- Total Organic	NS	6.2	13.4	23.2	15.7	17.8	16.2	14.1	mg/L
Chlorophyll a- uncorrected	NS	11.4	34.4	14.7	28.2	40.4	45.9	30.9	µg/L
COD	NS	24.9	54.2	82.4	53.3	61.5	69.3	87.7	mg/L
Coliform Fecal	126	79	99	47	60	<1	60	14	#/100 mL
Hardness- Calculated	NS	98.1	130	41.5	128	175	184	120	mg/L
Nitrate (N)	NS	0.025 I	0.044 I	<0.25	<0.25	0.39	<0.25	0.072	mg/L
Nitrogen- Total	NS	1.2	2.7	0.91	6.3	2.4	1.5	2.5	mg/L
Phosphorus- Total	NS	<0.05	<0.05	<0.1	1.2	<0.05	<0.05	<0.05	mg/L
Residues- Filterable (TDS)	NS	127	230	72	241	298	319	277	mg/L
Residues- Nonfilterable (TSS)	NS	20	9.5	12	9.5	25.5	32	18.5	mg/L
Sodium	NS	6.6	22.5	6	23.1	29.8	26.2	29.6	mg/L
Un-ionized Ammonia	NS	<0.02	0.042	<0.02	0.077	0.031	<0.02	<0.02	mg/L
Metrals									
Antimony	240	<0.5	<0.5	<0.5	<0.5	<0.5	0.71 I	0.8 I	µg/L
Arsenic	50	0.8 I	1.1	0.57 I	1.1	1.4	2.4	3.2	µg/L
Barium	NS	11.3	21	11.2	26.8	47	36.8	15.6	µg/L
Beryllium	64	<1.6	<1.6	<1.6	<1.6	<1.6	0.066 I	<1.6	µg/L
Iron	1,000	91.2	671	221	906	509	**1,360**	80	µg/L
Mercury	0.012	0.000984	0.000541	0.00241	0.00125	0.000481 I	0.00236	0.00107	µg/L
Nickel	Result	<2.1	<2.1	<2.1	<2.1	<2.1	2.4 I	2.7 I	µg/L
	Cal.Std: $e^{(0.846[lnH]+0.0584)}$						83.7	87.4	µg/L
Vanadium	NS	1.6 I	<1	<1	<1	1.8 I	2.7 I	4.1 I	µg/L
Zinc	Result	<11	<11	<11	<11	12.5 I	<11	<11	µg/L
	Cal. Std: $e^{(0.8473[lnH]+0.884)}$					192.5			µg/L

Notes:

[σ]Surface water Class III standards (62-320-530 F.A.C.);

NS - No Standard;

Bold value ondicates that the result is above the Class III Standard;

I - Analyte detected below the quantitation limit;

< -The parameter was detected below the detection limit (value).

[ε]DO standard in accordance with 62-302.533, F.A.C. can't be calculated due to lack of data.

*Ammonia Standard equation:

$$30-\text{day Average} = 0.8876 \times \left(\frac{0.0278}{1+10^{7.688-pH}} + \frac{1.1994}{1+10^{pH-7.688}}\right) \times \left(2.126 \times 10^{0.028\times(20-MAX(T,7))}\right)$$

pH segment	0.6524	0.9747	1.8487	1.3753	0.4903	1.0200	0.2904	mg/L
T segment	1.3279	1.6965	1.5501	1.6748	1.4347	1.3714	1.4255	mg/L
Slope	0.8876	0.8876	0.8876	0.8876	0.8876	0.8876	0.8876	mg/L
Ammonia-N Standard	0.77	1.47	2.54	2.04	0.62	1.24	0.37	mg/L

Attachment 1
Laboratory Reports and Field Data Sheets

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 19, 2018

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Dear Ms. Stirk:
Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, Volusia County Solid Waste Man

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35428469001	**EQ Blank 11/5/18**	Water	11/05/18 09:45	11/05/18 15:45
35428469002	**B40-2**	Water	11/05/18 10:25	11/05/18 15:45
35428469003	**B40-1**	Water	11/05/18 10:59	11/05/18 15:45
35428469004	**B65**	Water	11/05/18 11:55	11/05/18 15:45
35428469005	**B41-2**	Water	11/05/18 12:46	11/05/18 15:45
35428469006	**B1-B**	Water	11/05/18 13:30	11/05/18 15:45
35428469007	**B42-1**	Water	11/05/18 14:24	11/05/18 15:45
35428469008	**B42-2**	Water	11/05/18 14:43	11/05/18 15:45
35428469009	**B40-1 Dup**	Water	11/05/18 10:59	11/05/18 15:45
35428469010	**Trip Blank 11/5/18**	Water	11/05/18 00:00	11/05/18 15:45

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35428469001	**EQ Blank 11/5/18**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428469002	**B40-2**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428469003	**B40-1**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428469004	**B65**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428469005	**B41-2**	EPA 8011	MMB	2	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428469006	**B1-B**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428469007	**B42-1**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428469008	**B42-2**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428469009	**B40-1 Dup**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428469010	**Trip Blank 11/5/18**	EPA 8260	SK1	50	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428469001	**EQ Blank 11/5/18**					
EPA 6010	Barium	6.6 I	ug/L	10.0	11/08/18 11:04	
35428469002	**B40-2**					
	Field pH	6.16	Std. Units		11/08/18 11:28	
	Field Temperature	23.0	deg C		11/08/18 11:28	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:28	
	Field Specific Conductance	611	umhos/cm		11/08/18 11:28	
	Oxygen, Dissolved	0.38	mg/L		11/08/18 11:28	
	Turbidity	7.38	NTU		11/08/18 11:28	
	Water Level(NGVD)	24.00	feet		11/08/18 11:28	
EPA 6010	Barium	34.0	ug/L	10.0	11/08/18 11:07	
EPA 6010	Cobalt	2.0 I	ug/L	10.0	11/08/18 11:07	
EPA 6010	Iron	6340	ug/L	40.0	11/08/18 11:07	
EPA 6010	Nickel	2.2 I	ug/L	5.0	11/08/18 11:07	
EPA 6010	Sodium	21.6	mg/L	2.0	11/08/18 11:07	
EPA 6010	Vanadium	5.6 I	ug/L	10.0	11/08/18 11:07	
EPA 6020	Arsenic	6.2	ug/L	1.0	11/08/18 10:00	
SM 2540C	Total Dissolved Solids	386	mg/L	5.0	11/08/18 21:19	
EPA 300.0	Chloride	25.5	mg/L	5.0	11/10/18 03:19	
EPA 350.1	Nitrogen, Ammonia	0.78	mg/L	0.050	11/07/18 12:04	
EPA 353.2	Nitrogen, Nitrate	0.091	mg/L	0.050	11/06/18 16:53	
35428469003	**B40-1**					
	Field pH	5.62	Std. Units		11/08/18 11:30	
	Field Temperature	23.1	deg C		11/08/18 11:30	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:30	
	Field Specific Conductance	652	umhos/cm		11/08/18 11:30	
	Oxygen, Dissolved	0.47	mg/L		11/08/18 11:30	
	REDOX	28.41	mV		11/08/18 11:30	
	Turbidity	4.99	NTU		11/08/18 11:30	
	Water Level(NGVD)	22.82	feet		11/08/18 11:30	
EPA 6010	Barium	209	ug/L	10.0	11/08/18 11:10	
EPA 6010	Iron	25700	ug/L	40.0	11/08/18 11:10	
EPA 6010	Sodium	63.4	mg/L	2.0	11/08/18 11:10	
EPA 6010	Vanadium	2.0 I	ug/L	10.0	11/08/18 11:10	
EPA 6020	Arsenic	0.88 I	ug/L	1.0	11/08/18 10:01	
SM 2540C	Total Dissolved Solids	476	mg/L	5.0	11/08/18 21:19	
EPA 300.0	Chloride	77.3	mg/L	10.0	11/10/18 03:43	
EPA 350.1	Nitrogen, Ammonia	0.26	mg/L	0.050	11/07/18 12:06	
EPA 353.2	Nitrogen, Nitrate	0.044 I	mg/L	0.050	11/06/18 16:58	
35428469004	**B65**					
	Field pH	6.14	Std. Units		11/08/18 11:31	
	Field Temperature	23.1	deg C		11/08/18 11:31	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428469004	**B65**					
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:31	
	Field Specific Conductance	549	umhos/cm		11/08/18 11:31	
	Oxygen, Dissolved	0.30	mg/L		11/08/18 11:31	
	REDOX	-6.6	mV		11/08/18 11:31	
	Turbidity	6.41	NTU		11/08/18 11:31	
	Water Level(NGVD)	24.14	feet		11/08/18 11:31	
EPA 6010	Barium	41.7	ug/L	10.0	11/08/18 11:13	
EPA 6010	Chromium	2.0 I	ug/L	5.0	11/08/18 11:13	
EPA 6010	Iron	1790	ug/L	40.0	11/08/18 11:13	
EPA 6010	Nickel	2.6 I	ug/L	5.0	11/08/18 11:13	
EPA 6010	Sodium	27.4	mg/L	2.0	11/08/18 11:13	
EPA 6010	Vanadium	5.3 I	ug/L	10.0	11/08/18 11:13	
EPA 6020	Arsenic	3.7	ug/L	1.0	11/08/18 10:06	
SM 2540C	Total Dissolved Solids	340	mg/L	5.0	11/08/18 21:19	
EPA 300.0	Chloride	36.4	mg/L	5.0	11/10/18 04:06	
EPA 350.1	Nitrogen, Ammonia	0.52	mg/L	0.050	11/08/18 11:14	
35428469005	**B41-2**					
	Field pH	6.79	Std. Units		11/08/18 11:32	
	Field Temperature	21.6	deg C		11/08/18 11:32	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:32	
	Field Specific Conductance	457.9	umhos/cm		11/08/18 11:32	
	Oxygen, Dissolved	0.17	mg/L		11/08/18 11:32	
	REDOX	-68.8	mV		11/08/18 11:32	
	Turbidity	1.81	NTU		11/08/18 11:32	
	Water Level(NGVD)	24.05	feet		11/08/18 11:32	
EPA 6010	Barium	22.0	ug/L	10.0	11/08/18 11:16	
EPA 6010	Iron	1240	ug/L	40.0	11/08/18 11:16	
EPA 6010	Sodium	14.5	mg/L	2.0	11/08/18 11:16	
EPA 6010	Vanadium	1.8 I	ug/L	10.0	11/08/18 11:16	
EPA 6020	Arsenic	1.3	ug/L	1.0	11/08/18 10:07	
SM 2540C	Total Dissolved Solids	271	mg/L	5.0	11/08/18 21:19	
EPA 300.0	Chloride	19.6	mg/L	5.0	11/10/18 04:30	
EPA 350.1	Nitrogen, Ammonia	0.43	mg/L	0.050	11/08/18 11:20	
35428469006	**B1-B**					
	Field pH	6.55	Std. Units		11/08/18 11:33	
	Field Temperature	23.9	deg C		11/08/18 11:33	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:33	
	Field Specific Conductance	738	umhos/cm		11/08/18 11:33	
	Oxygen, Dissolved	0.28	mg/L		11/08/18 11:33	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428469006	**B1-B**					
	REDOX	-51.6	mV		11/08/18 11:33	
	Turbidity	3.99	NTU		11/08/18 11:33	
	Water Level(NGVD)	21.28	feet		11/08/18 11:33	
EPA 6010	Barium	107	ug/L	10.0	11/08/18 11:19	
EPA 6010	Iron	10900	ug/L	40.0	11/08/18 11:19	
EPA 6010	Sodium	29.7	mg/L	2.0	11/08/18 11:19	
EPA 6010	Vanadium	1.6	ug/L	10.0	11/08/18 11:19	I
SM 2540C	Total Dissolved Solids	381	mg/L	5.0	11/08/18 21:19	
EPA 300.0	Chloride	16.1	mg/L	5.0	11/10/18 04:53	
EPA 350.1	Nitrogen, Ammonia	6.1	mg/L	0.050	11/08/18 11:22	
EPA 353.2	Nitrogen, Nitrate	0.055	mg/L	0.050	11/06/18 17:05	
35428469007	**B42-1**					
	Field pH	6.07	Std. Units		11/08/18 11:33	
	Field Temperature	23.5	deg C		11/08/18 11:33	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:33	
	Field Specific Conductance	613	umhos/cm		11/08/18 11:33	
	Oxygen, Dissolved	0.38	mg/L		11/08/18 11:33	
	REDOX	20.0	mV		11/08/18 11:33	
	Turbidity	2.50	NTU		11/08/18 11:33	
	Water Level(NGVD)	21.56	feet		11/08/18 11:33	
EPA 6010	Barium	92.0	ug/L	10.0	11/08/18 11:21	
EPA 6010	Chromium	1.7	ug/L	5.0	11/08/18 11:21	I
EPA 6010	Iron	1390	ug/L	40.0	11/08/18 11:21	
EPA 6010	Sodium	68.2	mg/L	2.0	11/08/18 11:21	
EPA 6020	Arsenic	0.75	ug/L	1.0	11/08/18 10:10	I
SM 2540C	Total Dissolved Solids	442	mg/L	5.0	11/08/18 21:19	
EPA 300.0	Chloride	65.9	mg/L	5.0	11/10/18 05:17	
EPA 353.2	Nitrogen, Nitrate	0.20	mg/L	0.050	11/06/18 17:06	
35428469008	**B42-2**					
	Field pH	6.16	Std. Units		11/08/18 11:34	
	Field Temperature	23.5	deg C		11/08/18 11:34	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:34	
	Field Specific Conductance	342.8	umhos/cm		11/08/18 11:34	
	Oxygen, Dissolved	0.42	mg/L		11/08/18 11:34	
	REDOX	0.2	mV		11/08/18 11:34	
	Turbidity	4.07	NTU		11/08/18 11:34	
	Water Level(NGVD)	23.99	feet		11/08/18 11:34	
EPA 6010	Barium	29.2	ug/L	10.0	11/08/18 11:24	
EPA 6010	Chromium	2.4	ug/L	5.0	11/08/18 11:24	I
EPA 6010	Cobalt	1.1	ug/L	10.0	11/08/18 11:24	I
EPA 6010	Iron	1560	ug/L	40.0	11/08/18 11:24	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428469008	**B42-2**					
EPA 6010	Sodium	14.8	mg/L	2.0	11/08/18 11:24	
EPA 6010	Vanadium	3.5 I	ug/L	10.0	11/08/18 11:24	
EPA 6020	Arsenic	1.9	ug/L	1.0	11/08/18 10:12	
SM 2540C	Total Dissolved Solids	232	mg/L	5.0	11/08/18 21:19	
EPA 300.0	Chloride	20.6	mg/L	5.0	11/10/18 05:40	
EPA 350.1	Nitrogen, Ammonia	0.25	mg/L	0.050	11/08/18 11:25	
EPA 353.2	Nitrogen, Nitrate	0.15	mg/L	0.050	11/06/18 17:07	
35428469009	**B40-1 Dup**					
	Field pH	5.62	Std. Units		11/08/18 11:35	
	Field Temperature	23.1	deg C		11/08/18 11:35	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:35	
	Field Specific Conductance	652	umhos/cm		11/08/18 11:35	
	Oxygen, Dissolved	0.47	mg/L		11/08/18 11:35	
	REDOX	28.41	mV		11/08/18 11:35	
	Turbidity	4.99	NTU		11/08/18 11:35	
	Water Level(NGVD)	22.82	feet		11/08/18 11:35	
EPA 6010	Barium	206	ug/L	10.0	11/08/18 11:27	
EPA 6010	Iron	25300	ug/L	40.0	11/08/18 11:27	
EPA 6010	Sodium	61.8	mg/L	2.0	11/08/18 11:27	
EPA 6010	Vanadium	1.9 I	ug/L	10.0	11/08/18 11:27	
EPA 6020	Arsenic	0.91 I	ug/L	1.0	11/08/18 10:13	
SM 2540C	Total Dissolved Solids	500	mg/L	5.0	11/08/18 21:19	
EPA 300.0	Chloride	75.1	mg/L	10.0	11/12/18 14:26	
EPA 350.1	Nitrogen, Ammonia	0.26	mg/L	0.050	11/08/18 11:27	
EPA 353.2	Nitrogen, Nitrate	0.046 I	mg/L	0.050	11/06/18 17:08	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: EQ Blank 11/5/18 **Lab ID: 35428469001** Collected: 11/05/18 09:45 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 04:38	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/08/18 11:55	11/09/18 04:38	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**6.6 I**	ug/L	10.0	0.84	1	11/08/18 03:15	11/08/18 11:04	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/08/18 03:15	11/08/18 11:04	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/08/18 03:15	11/08/18 11:04	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/08/18 03:15	11/08/18 11:04	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/08/18 03:15	11/08/18 11:04	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/08/18 03:15	11/08/18 11:04	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	11/08/18 03:15	11/08/18 11:04	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/08/18 03:15	11/08/18 11:04	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/08/18 03:15	11/08/18 11:04	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/08/18 03:15	11/08/18 11:04	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/08/18 03:15	11/08/18 11:04	7440-22-4	
Sodium	**0.27 U**	mg/L	2.0	0.27	1	11/08/18 03:15	11/08/18 11:04	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/08/18 03:15	11/08/18 11:04	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/08/18 03:15	11/08/18 11:04	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 09:58	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 09:58	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 09:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/12/18 15:38	11/14/18 18:45	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/10/18 14:34	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:34	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/10/18 14:34	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/10/18 14:34	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/10/18 14:34	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:34	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:34	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/10/18 14:34	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 14:34	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/10/18 14:34	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/10/18 14:34	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/10/18 14:34	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: EQ Blank 11/5/18 **Lab ID: 35428469001** Collected: 11/05/18 09:45 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:34	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 14:34	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 14:34	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:34	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 14:34	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/10/18 14:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:34	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/10/18 14:34	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/10/18 14:34	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/10/18 14:34	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:34	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/10/18 14:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/10/18 14:34	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		11/10/18 14:34	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/10/18 14:34	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		11/08/18 21:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5 U**	mg/L	5.0	2.5	1		11/09/18 21:23	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/07/18 12:02	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/06/18 16:52	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B40-2 **Lab ID: 35428469002** Collected: 11/05/18 10:25 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.16**	Std. Units			1		11/08/18 11:28		
Field Temperature	**23.0**	deg C			1		11/08/18 11:28		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:28		
Field Specific Conductance	**611**	umhos/cm			1		11/08/18 11:28		
Oxygen, Dissolved	**0.38**	mg/L			1		11/08/18 11:28	7782-44-7	
Turbidity	**7.38**	NTU			1		11/08/18 11:28		
Water Level(NGVD)	**24.00**	feet			1		11/08/18 11:28		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/08/18 11:55	11/09/18 04:53	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/08/18 11:55	11/09/18 04:53	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**34.0**	ug/L	10.0	0.84	1	11/08/18 03:15	11/08/18 11:07	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/08/18 03:15	11/08/18 11:07	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/08/18 03:15	11/08/18 11:07	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/08/18 03:15	11/08/18 11:07	7440-47-3	
Cobalt	**2.0 I**	ug/L	10.0	0.96	1	11/08/18 03:15	11/08/18 11:07	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/08/18 03:15	11/08/18 11:07	7440-50-8	
Iron	**6340**	ug/L	40.0	9.2	1	11/08/18 03:15	11/08/18 11:07	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/08/18 03:15	11/08/18 11:07	7439-92-1	
Nickel	**2.2 I**	ug/L	5.0	2.1	1	11/08/18 03:15	11/08/18 11:07	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/08/18 03:15	11/08/18 11:07	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/08/18 03:15	11/08/18 11:07	7440-22-4	
Sodium	**21.6**	mg/L	2.0	0.27	1	11/08/18 03:15	11/08/18 11:07	7440-23-5	
Vanadium	**5.6 I**	ug/L	10.0	1.0	1	11/08/18 03:15	11/08/18 11:07	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/08/18 03:15	11/08/18 11:07	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:00	7440-36-0	
Arsenic	**6.2**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:00	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/12/18 15:38	11/14/18 18:53	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/10/18 14:58	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:58	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/10/18 14:58	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/10/18 14:58	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	75-25-2	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B40-2 **Lab ID: 35428469002** Collected: 11/05/18 10:25 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/10/18 14:58	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:58	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:58	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/10/18 14:58	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 14:58	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/10/18 14:58	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/10/18 14:58	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/10/18 14:58	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:58	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 14:58	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 14:58	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:58	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 14:58	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/10/18 14:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 14:58	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/10/18 14:58	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/10/18 14:58	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/10/18 14:58	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 14:58	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/10/18 14:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/10/18 14:58	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		11/10/18 14:58	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/10/18 14:58	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**386**	mg/L	5.0	5.0	1		11/08/18 21:19		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B40-2 **Lab ID: 35428469002** Collected: 11/05/18 10:25 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**25.5**	mg/L	5.0	2.5	1		11/10/18 03:19	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.78**	mg/L	0.050	0.035	1		11/07/18 12:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.091**	mg/L	0.050	0.025	1		11/06/18 16:53	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B40-1 **Lab ID: 35428469003** Collected: 11/05/18 10:59 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.62**	Std. Units			1		11/08/18 11:30		
Field Temperature	**23.1**	deg C			1		11/08/18 11:30		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:30		
Field Specific Conductance	**652**	umhos/cm			1		11/08/18 11:30		
Oxygen, Dissolved	**0.47**	mg/L			1		11/08/18 11:30	7782-44-7	
REDOX	**28.41**	mV			1		11/08/18 11:30		
Turbidity	**4.99**	NTU			1		11/08/18 11:30		
Water Level(NGVD)	**22.82**	feet			1		11/08/18 11:30		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/08/18 11:55	11/09/18 05:08	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/08/18 11:55	11/09/18 05:08	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**209**	ug/L	10.0	0.84	1	11/08/18 03:15	11/08/18 11:10	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/08/18 03:15	11/08/18 11:10	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/08/18 03:15	11/08/18 11:10	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/08/18 03:15	11/08/18 11:10	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/08/18 03:15	11/08/18 11:10	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/08/18 03:15	11/08/18 11:10	7440-50-8	
Iron	**25700**	ug/L	40.0	9.2	1	11/08/18 03:15	11/08/18 11:10	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/08/18 03:15	11/08/18 11:10	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/08/18 03:15	11/08/18 11:10	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/08/18 03:15	11/08/18 11:10	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/08/18 03:15	11/08/18 11:10	7440-22-4	
Sodium	**63.4**	mg/L	2.0	0.27	1	11/08/18 03:15	11/08/18 11:10	7440-23-5	
Vanadium	**2.0 I**	ug/L	10.0	1.0	1	11/08/18 03:15	11/08/18 11:10	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/08/18 03:15	11/08/18 11:10	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:01	7440-36-0	
Arsenic	**0.88 I**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:01	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/12/18 15:38	11/14/18 18:56	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/10/18 15:22	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:22	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/10/18 15:22	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/10/18 15:22	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B40-1 **Lab ID: 35428469003** Collected: 11/05/18 10:59 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/10/18 15:22	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:22	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:22	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/10/18 15:22	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 15:22	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/10/18 15:22	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/10/18 15:22	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/10/18 15:22	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:22	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 15:22	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 15:22	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:22	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 15:22	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/10/18 15:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:22	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/10/18 15:22	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/10/18 15:22	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/10/18 15:22	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:22	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/10/18 15:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/10/18 15:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/10/18 15:22	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/10/18 15:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B40-1 **Lab ID: 35428469003** Collected: 11/05/18 10:59 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**476**	mg/L	5.0	5.0	1		11/08/18 21:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**77.3**	mg/L	10.0	5.0	2		11/10/18 03:43	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.26**	mg/L	0.050	0.035	1		11/07/18 12:06	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.044 I**	mg/L	0.050	0.025	1		11/06/18 16:58	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B65 **Lab ID: 35428469004** Collected: 11/05/18 11:55 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.14**	Std. Units			1		11/08/18 11:31		
Field Temperature	**23.1**	deg C			1		11/08/18 11:31		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:31		
Field Specific Conductance	**549**	umhos/cm			1		11/08/18 11:31		
Oxygen, Dissolved	**0.30**	mg/L			1		11/08/18 11:31	7782-44-7	
REDOX	**-6.6**	mV			1		11/08/18 11:31		
Turbidity	**6.41**	NTU			1		11/08/18 11:31		
Water Level(NGVD)	**24.14**	feet			1		11/08/18 11:31		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 05:37	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/08/18 11:55	11/09/18 05:37	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**41.7**	ug/L	10.0	0.84	1	11/08/18 03:15	11/08/18 11:13	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/08/18 03:15	11/08/18 11:13	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/08/18 03:15	11/08/18 11:13	7440-43-9	
Chromium	**2.0 I**	ug/L	5.0	1.7	1	11/08/18 03:15	11/08/18 11:13	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/08/18 03:15	11/08/18 11:13	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/08/18 03:15	11/08/18 11:13	7440-50-8	
Iron	**1790**	ug/L	40.0	9.2	1	11/08/18 03:15	11/08/18 11:13	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/08/18 03:15	11/08/18 11:13	7439-92-1	
Nickel	**2.6 I**	ug/L	5.0	2.1	1	11/08/18 03:15	11/08/18 11:13	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/08/18 03:15	11/08/18 11:13	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/08/18 03:15	11/08/18 11:13	7440-22-4	
Sodium	**27.4**	mg/L	2.0	0.27	1	11/08/18 03:15	11/08/18 11:13	7440-23-5	
Vanadium	**5.3 I**	ug/L	10.0	1.0	1	11/08/18 03:15	11/08/18 11:13	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/08/18 03:15	11/08/18 11:13	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:06	7440-36-0	
Arsenic	**3.7**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:06	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/12/18 15:38	11/14/18 18:58	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/10/18 15:46	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:46	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/10/18 15:46	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/10/18 15:46	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B65 **Lab ID: 35428469004** Collected: 11/05/18 11:55 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/10/18 15:46	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:46	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:46	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/10/18 15:46	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 15:46	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/10/18 15:46	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/10/18 15:46	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/10/18 15:46	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:46	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 15:46	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 15:46	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:46	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 15:46	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/10/18 15:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 15:46	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/10/18 15:46	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/10/18 15:46	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/10/18 15:46	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 15:46	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/10/18 15:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/10/18 15:46	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/10/18 15:46	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/10/18 15:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B65 **Lab ID: 35428469004** Collected: 11/05/18 11:55 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**340**	mg/L	5.0	5.0	1		11/08/18 21:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**36.4**	mg/L	5.0	2.5	1		11/10/18 04:06	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.52**	mg/L	0.050	0.035	1		11/08/18 11:14	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/06/18 16:59	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B41-2 **Lab ID: 35428469005** Collected: 11/05/18 12:46 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.79**	Std. Units			1		11/08/18 11:32		
Field Temperature	**21.6**	deg C			1		11/08/18 11:32		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:32		
Field Specific Conductance	**457.9**	umhos/cm			1		11/08/18 11:32		
Oxygen, Dissolved	**0.17**	mg/L			1		11/08/18 11:32	7782-44-7	
REDOX	**-68.8**	mV			1		11/08/18 11:32		
Turbidity	**1.81**	NTU			1		11/08/18 11:32		
Water Level(NGVD)	**24.05**	feet			1		11/08/18 11:32		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/08/18 11:55	11/09/18 05:52	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/08/18 11:55	11/09/18 05:52	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**22.0**	ug/L	10.0	0.84	1	11/08/18 03:15	11/08/18 11:16	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/08/18 03:15	11/08/18 11:16	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/08/18 03:15	11/08/18 11:16	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/08/18 03:15	11/08/18 11:16	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/08/18 03:15	11/08/18 11:16	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/08/18 03:15	11/08/18 11:16	7440-50-8	
Iron	**1240**	ug/L	40.0	9.2	1	11/08/18 03:15	11/08/18 11:16	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/08/18 03:15	11/08/18 11:16	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/08/18 03:15	11/08/18 11:16	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/08/18 03:15	11/08/18 11:16	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/08/18 03:15	11/08/18 11:16	7440-22-4	
Sodium	**14.5**	mg/L	2.0	0.27	1	11/08/18 03:15	11/08/18 11:16	7440-23-5	
Vanadium	**1.8 I**	ug/L	10.0	1.0	1	11/08/18 03:15	11/08/18 11:16	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/08/18 03:15	11/08/18 11:16	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:07	7440-36-0	
Arsenic	**1.3**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:07	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/12/18 15:38	11/14/18 19:00	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/10/18 16:10	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:10	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/10/18 16:10	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/10/18 16:10	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B41-2 **Lab ID: 35428469005** Collected: 11/05/18 12:46 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/10/18 16:10	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:10	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:10	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/10/18 16:10	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 16:10	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/10/18 16:10	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/10/18 16:10	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/10/18 16:10	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:10	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 16:10	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 16:10	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:10	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 16:10	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/10/18 16:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:10	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/10/18 16:10	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/10/18 16:10	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/10/18 16:10	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:10	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/10/18 16:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/10/18 16:10	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/10/18 16:10	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/10/18 16:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B41-2 **Lab ID: 35428469005** Collected: 11/05/18 12:46 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**271**	mg/L	5.0	5.0	1		11/08/18 21:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**19.6**	mg/L	5.0	2.5	1		11/10/18 04:30	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.43**	mg/L	0.050	0.035	1		11/08/18 11:20	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/06/18 17:03	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B1-B **Lab ID: 35428469006** Collected: 11/05/18 13:30 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.55**	Std. Units			1		11/08/18 11:33		
Field Temperature	**23.9**	deg C			1		11/08/18 11:33		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:33		
Field Specific Conductance	**738**	umhos/cm			1		11/08/18 11:33		
Oxygen, Dissolved	**0.28**	mg/L			1		11/08/18 11:33	7782-44-7	
REDOX	**-51.6**	mV			1		11/08/18 11:33		
Turbidity	**3.99**	NTU			1		11/08/18 11:33		
Water Level(NGVD)	**21.28**	feet			1		11/08/18 11:33		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 06:07	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/08/18 11:55	11/09/18 06:07	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**107**	ug/L	10.0	0.84	1	11/08/18 03:15	11/08/18 11:19	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/08/18 03:15	11/08/18 11:19	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/08/18 03:15	11/08/18 11:19	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/08/18 03:15	11/08/18 11:19	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/08/18 03:15	11/08/18 11:19	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/08/18 03:15	11/08/18 11:19	7440-50-8	
Iron	**10900**	ug/L	40.0	9.2	1	11/08/18 03:15	11/08/18 11:19	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/08/18 03:15	11/08/18 11:19	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/08/18 03:15	11/08/18 11:19	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/08/18 03:15	11/08/18 11:19	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/08/18 03:15	11/08/18 11:19	7440-22-4	
Sodium	**29.7**	mg/L	2.0	0.27	1	11/08/18 03:15	11/08/18 11:19	7440-23-5	
Vanadium	**1.6 I**	ug/L	10.0	1.0	1	11/08/18 03:15	11/08/18 11:19	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/08/18 03:15	11/08/18 11:19	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:09	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:09	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/12/18 15:38	11/14/18 19:02	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/10/18 16:34	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:34	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/10/18 16:34	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/10/18 16:34	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B1-B **Lab ID: 35428469006** Collected: 11/05/18 13:30 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/10/18 16:34	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:34	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:34	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/10/18 16:34	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 16:34	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/10/18 16:34	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/10/18 16:34	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/10/18 16:34	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:34	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 16:34	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 16:34	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:34	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 16:34	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/10/18 16:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:34	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/10/18 16:34	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/10/18 16:34	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/10/18 16:34	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:34	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/10/18 16:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/10/18 16:34	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		11/10/18 16:34	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/10/18 16:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B1-B **Lab ID: 35428469006** Collected: 11/05/18 13:30 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**381**	mg/L	5.0	5.0	1		11/08/18 21:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.1**	mg/L	5.0	2.5	1		11/10/18 04:53	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**6.1**	mg/L	0.050	0.035	1		11/08/18 11:22	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.055**	mg/L	0.050	0.025	1		11/06/18 17:05	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B42-1 **Lab ID: 35428469007** Collected: 11/05/18 14:24 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.07**	Std. Units			1		11/08/18 11:33		
Field Temperature	**23.5**	deg C			1		11/08/18 11:33		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:33		
Field Specific Conductance	**613**	umhos/cm			1		11/08/18 11:33		
Oxygen, Dissolved	**0.38**	mg/L			1		11/08/18 11:33	7782-44-7	
REDOX	**20.0**	mV			1		11/08/18 11:33		
Turbidity	**2.50**	NTU			1		11/08/18 11:33		
Water Level(NGVD)	**21.56**	feet			1		11/08/18 11:33		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 06:22	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/08/18 11:55	11/09/18 06:22	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**92.0**	ug/L	10.0	0.84	1	11/08/18 03:15	11/08/18 11:21	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/08/18 03:15	11/08/18 11:21	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/08/18 03:15	11/08/18 11:21	7440-43-9	
Chromium	**1.7 I**	ug/L	5.0	1.7	1	11/08/18 03:15	11/08/18 11:21	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/08/18 03:15	11/08/18 11:21	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/08/18 03:15	11/08/18 11:21	7440-50-8	
Iron	**1390**	ug/L	40.0	9.2	1	11/08/18 03:15	11/08/18 11:21	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/08/18 03:15	11/08/18 11:21	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/08/18 03:15	11/08/18 11:21	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/08/18 03:15	11/08/18 11:21	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/08/18 03:15	11/08/18 11:21	7440-22-4	
Sodium	**68.2**	mg/L	2.0	0.27	1	11/08/18 03:15	11/08/18 11:21	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/08/18 03:15	11/08/18 11:21	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/08/18 03:15	11/08/18 11:21	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:10	7440-36-0	
Arsenic	**0.75 I**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:10	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/12/18 15:38	11/14/18 19:04	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/10/18 16:58	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:58	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/10/18 16:58	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/10/18 16:58	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B42-1 **Lab ID: 35428469007** Collected: 11/05/18 14:24 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/10/18 16:58	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:58	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:58	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/10/18 16:58	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 16:58	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/10/18 16:58	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/10/18 16:58	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/10/18 16:58	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:58	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 16:58	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 16:58	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:58	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 16:58	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/10/18 16:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 16:58	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/10/18 16:58	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/10/18 16:58	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/10/18 16:58	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 16:58	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/10/18 16:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/10/18 16:58	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		11/10/18 16:58	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/10/18 16:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B42-1 **Lab ID: 35428469007** Collected: 11/05/18 14:24 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**442**	mg/L	5.0	5.0	1		11/08/18 21:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**65.9**	mg/L	5.0	2.5	1		11/10/18 05:17	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/08/18 11:24	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.20**	mg/L	0.050	0.025	1		11/06/18 17:06	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B42-2 **Lab ID: 35428469008** Collected: 11/05/18 14:43 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.16**	Std. Units			1		11/08/18 11:34		
Field Temperature	**23.5**	deg C			1		11/08/18 11:34		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:34		
Field Specific Conductance	**342.8**	umhos/cm			1		11/08/18 11:34		
Oxygen, Dissolved	**0.42**	mg/L			1		11/08/18 11:34	7782-44-7	
REDOX	**0.2**	mV			1		11/08/18 11:34		
Turbidity	**4.07**	NTU			1		11/08/18 11:34		
Water Level(NGVD)	**23.99**	feet			1		11/08/18 11:34		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/08/18 11:55	11/09/18 06:36	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/08/18 11:55	11/09/18 06:36	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**29.2**	ug/L	10.0	0.84	1	11/08/18 03:15	11/08/18 11:24	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/08/18 03:15	11/08/18 11:24	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/08/18 03:15	11/08/18 11:24	7440-43-9	
Chromium	**2.4 I**	ug/L	5.0	1.7	1	11/08/18 03:15	11/08/18 11:24	7440-47-3	
Cobalt	**1.1 I**	ug/L	10.0	0.96	1	11/08/18 03:15	11/08/18 11:24	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/08/18 03:15	11/08/18 11:24	7440-50-8	
Iron	**1560**	ug/L	40.0	9.2	1	11/08/18 03:15	11/08/18 11:24	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/08/18 03:15	11/08/18 11:24	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/08/18 03:15	11/08/18 11:24	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/08/18 03:15	11/08/18 11:24	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/08/18 03:15	11/08/18 11:24	7440-22-4	
Sodium	**14.8**	mg/L	2.0	0.27	1	11/08/18 03:15	11/08/18 11:24	7440-23-5	
Vanadium	**3.5 I**	ug/L	10.0	1.0	1	11/08/18 03:15	11/08/18 11:24	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/08/18 03:15	11/08/18 11:24	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:12	7440-36-0	
Arsenic	**1.9**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:12	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/12/18 15:38	11/14/18 19:06	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/10/18 17:22	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 17:22	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/10/18 17:22	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/10/18 17:22	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B42-2 **Lab ID: 35428469008** Collected: 11/05/18 14:43 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/10/18 17:22	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 17:22	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 17:22	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/10/18 17:22	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 17:22	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/10/18 17:22	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/10/18 17:22	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/10/18 17:22	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 17:22	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 17:22	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 17:22	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 17:22	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 17:22	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/10/18 17:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 17:22	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/10/18 17:22	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/10/18 17:22	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/10/18 17:22	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 17:22	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/10/18 17:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/10/18 17:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/10/18 17:22	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/10/18 17:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B42-2 **Lab ID: 35428469008** Collected: 11/05/18 14:43 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**232**	mg/L	5.0	5.0	1		11/08/18 21:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**20.6**	mg/L	5.0	2.5	1		11/10/18 05:40	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.25**	mg/L	0.050	0.035	1		11/08/18 11:25	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.15**	mg/L	0.050	0.025	1		11/06/18 17:07	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B40-1 Dup **Lab ID: 35428469009** Collected: 11/05/18 10:59 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.62**	Std. Units			1		11/08/18 11:35		
Field Temperature	**23.1**	deg C			1		11/08/18 11:35		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:35		
Field Specific Conductance	**652**	umhos/cm			1		11/08/18 11:35		
Oxygen, Dissolved	**0.47**	mg/L			1		11/08/18 11:35	7782-44-7	
REDOX	**28.41**	mV			1		11/08/18 11:35		
Turbidity	**4.99**	NTU			1		11/08/18 11:35		
Water Level(NGVD)	**22.82**	feet			1		11/08/18 11:35		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/08/18 11:55	11/09/18 06:51	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/08/18 11:55	11/09/18 06:51	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**206**	ug/L	10.0	0.84	1	11/08/18 03:15	11/08/18 11:27	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/08/18 03:15	11/08/18 11:27	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/08/18 03:15	11/08/18 11:27	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/08/18 03:15	11/08/18 11:27	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/08/18 03:15	11/08/18 11:27	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/08/18 03:15	11/08/18 11:27	7440-50-8	
Iron	**25300**	ug/L	40.0	9.2	1	11/08/18 03:15	11/08/18 11:27	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/08/18 03:15	11/08/18 11:27	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/08/18 03:15	11/08/18 11:27	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/08/18 03:15	11/08/18 11:27	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/08/18 03:15	11/08/18 11:27	7440-22-4	
Sodium	**61.8**	mg/L	2.0	0.27	1	11/08/18 03:15	11/08/18 11:27	7440-23-5	
Vanadium	**1.9 I**	ug/L	10.0	1.0	1	11/08/18 03:15	11/08/18 11:27	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/08/18 03:15	11/08/18 11:27	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:13	7440-36-0	
Arsenic	**0.91 I**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:13	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/08/18 03:12	11/08/18 10:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/12/18 15:38	11/14/18 19:08	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/10/18 18:10	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 18:10	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/10/18 18:10	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/10/18 18:10	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B40-1 Dup **Lab ID: 35428469009** Collected: 11/05/18 10:59 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/10/18 18:10	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 18:10	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 18:10	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/10/18 18:10	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 18:10	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/10/18 18:10	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/10/18 18:10	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/10/18 18:10	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 18:10	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 18:10	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 18:10	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 18:10	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 18:10	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/10/18 18:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 18:10	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/10/18 18:10	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/10/18 18:10	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/10/18 18:10	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 18:10	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/10/18 18:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/10/18 18:10	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		11/10/18 18:10	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/10/18 18:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: B40-1 Dup **Lab ID: 35428469009** Collected: 11/05/18 10:59 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**500**	mg/L	5.0	5.0	1		11/08/18 21:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**75.1**	mg/L	10.0	5.0	2		11/12/18 14:26	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.26**	mg/L	0.050	0.035	1		11/08/18 11:27	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.046 I**	mg/L	0.050	0.025	1		11/06/18 17:08	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: Trip Blank 11/5/18 **Lab ID: 35428469010** Collected: 11/05/18 00:00 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/10/18 12:11	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 12:11	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/10/18 12:11	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/10/18 12:11	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/10/18 12:11	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 12:11	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 12:11	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/10/18 12:11	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 12:11	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/10/18 12:11	74-87-3	
1,2-Dibromo-3-chloropropane	**1.0 U**	ug/L	5.0	1.0	1		11/10/18 12:11	96-12-8	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/10/18 12:11	124-48-1	
1,2-Dibromoethane (EDB)	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	106-93-4	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/10/18 12:11	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 12:11	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 12:11	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/10/18 12:11	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 12:11	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/10/18 12:11	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/10/18 12:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/10/18 12:11	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/10/18 12:11	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/10/18 12:11	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/10/18 12:11	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/10/18 12:11	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Sample: Trip Blank 11/5/18 **Lab ID: 35428469010** Collected: 11/05/18 00:00 Received: 11/05/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/10/18 12:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/10/18 12:11	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		11/10/18 12:11	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/10/18 12:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 493014 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

METHOD BLANK: 2666697 Matrix: Water
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/14/18 18:28	

LABORATORY CONTROL SAMPLE: 2666698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2666699 2666700

Parameter	Units	35428033003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.8	1.9	91	94	75-125	4	20	

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

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 491977 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

METHOD BLANK: 2660756 Matrix: Water
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/08/18 10:27	
Beryllium	ug/L	1.6 U	4.0	1.6	11/08/18 10:27	
Cadmium	ug/L	0.33 U	1.0	0.33	11/08/18 10:27	
Chromium	ug/L	1.7 U	5.0	1.7	11/08/18 10:27	
Cobalt	ug/L	0.96 U	10.0	0.96	11/08/18 10:27	
Copper	ug/L	2.6 U	5.0	2.6	11/08/18 10:27	
Iron	ug/L	9.2 U	40.0	9.2	11/08/18 10:27	
Lead	ug/L	4.6 U	10.0	4.6	11/08/18 10:27	
Nickel	ug/L	2.1 U	5.0	2.1	11/08/18 10:27	
Selenium	ug/L	8.5 U	15.0	8.5	11/08/18 10:27	
Silver	ug/L	1.0 U	5.0	1.0	11/08/18 10:27	
Sodium	mg/L	0.27 U	2.0	0.27	11/08/18 10:27	
Vanadium	ug/L	1.0 U	10.0	1.0	11/08/18 10:27	
Zinc	ug/L	11.0 U	20.0	11.0	11/08/18 10:27	

LABORATORY CONTROL SAMPLE: 2660757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	256	102	80-120	
Beryllium	ug/L	25	25.0	100	80-120	
Cadmium	ug/L	25	25.8	103	80-120	
Chromium	ug/L	250	257	103	80-120	
Cobalt	ug/L	250	259	104	80-120	
Copper	ug/L	250	251	100	80-120	
Iron	ug/L	2500	2550	102	80-120	
Lead	ug/L	250	260	104	80-120	
Nickel	ug/L	250	262	105	80-120	
Selenium	ug/L	250	256	102	80-120	
Silver	ug/L	25	25.7	103	80-120	
Sodium	mg/L	12.5	13.0	104	80-120	
Vanadium	ug/L	250	254	102	80-120	
Zinc	ug/L	1250	1290	103	80-120	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2660758 2660759

Parameter	Units	35428365001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	10.5	250	250	268	267	103	103	75-125	0	20	
Beryllium	ug/L	<1.6	25	25	25.9	25.7	103	103	75-125	1	20	
Cadmium	ug/L	<0.33	25	25	26.0	25.8	104	103	75-125	1	20	
Chromium	ug/L	<1.7	250	250	261	259	104	104	75-125	1	20	
Cobalt	ug/L	<0.96	250	250	265	262	106	105	75-125	1	20	
Copper	ug/L	<2.6	250	250	261	258	104	103	75-125	1	20	
Iron	ug/L	<9.2	2500	2500	2590	2570	103	103	75-125	1	20	
Lead	ug/L	<4.6	250	250	261	259	104	104	75-125	1	20	
Nickel	ug/L	<2.1	250	250	264	263	105	105	75-125	0	20	
Selenium	ug/L	<8.5	250	250	188	183	75	73	75-125	3	20	J(M1)
Silver	ug/L	<1.0	25	25	26.2	25.9	105	104	75-125	1	20	
Sodium	mg/L	35.6	12.5	12.5	50.6	50.3	120	118	75-125	0	20	
Vanadium	ug/L	2.1 I	250	250	264	261	105	103	75-125	1	20	
Zinc	ug/L	<11.0	1250	1250	1300	1280	104	102	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 491978 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

METHOD BLANK: 2660760 Matrix: Water
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/08/18 09:38	
Arsenic	ug/L	0.50 U	1.0	0.50	11/08/18 09:38	
Thallium	ug/L	0.50 U	1.0	0.50	11/08/18 09:38	

LABORATORY CONTROL SAMPLE: 2660761

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	47.1	94	80-120	
Arsenic	ug/L	50	47.7	95	80-120	
Thallium	ug/L	50	46.1	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2660762 2660763

Parameter	Units	35428365002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.50	50	50	47.8	47.1	96	94	75-125	2	20	
Arsenic	ug/L	<0.50	50	50	49.0	48.6	98	97	75-125	1	20	
Thallium	ug/L	<0.50	50	50	46.6	45.8	93	92	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 492624 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009, 35428469010

METHOD BLANK: 2664235 Matrix: Water
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009, 35428469010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/10/18 10:59	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/10/18 10:59	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	5.0	1.0	11/10/18 10:59	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/10/18 10:59	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/10/18 10:59	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/10/18 10:59	
Acetone	ug/L	10.0 U	20.0	10.0	11/10/18 10:59	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/10/18 10:59	
Benzene	ug/L	0.10 U	1.0	0.10	11/10/18 10:59	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/10/18 10:59	
Bromoform	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/10/18 10:59	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/10/18 10:59	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/10/18 10:59	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/10/18 10:59	
Chloroform	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/10/18 10:59	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/10/18 10:59	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/10/18 10:59	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/10/18 10:59	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/10/18 10:59	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/10/18 10:59	
Styrene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
Toluene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

METHOD BLANK: 2664235 Matrix: Water

Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009, 35428469010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/10/18 10:59	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/10/18 10:59	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/10/18 10:59	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/10/18 10:59	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/10/18 10:59	
1,2-Dichloroethane-d4 (S)	%	101	70-130		11/10/18 10:59	
4-Bromofluorobenzene (S)	%	98	70-130		11/10/18 10:59	
Toluene-d8 (S)	%	103	70-130		11/10/18 10:59	

LABORATORY CONTROL SAMPLE: 2664236

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.4	112	70-130	
1,1,1-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	68-125	
1,1,2-Trichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethane	ug/L	20	19.0	95	70-130	
1,1-Dichloroethene	ug/L	20	18.5	93	66-133	
1,2,3-Trichloropropane	ug/L	20	19.3	96	62-127	
1,2-Dibromo-3-chloropropane	ug/L	20	16.0	80	45-137	
1,2-Dibromoethane (EDB)	ug/L	20	21.3	106	70-130	
1,2-Dichlorobenzene	ug/L	20	19.7	99	70-130	
1,2-Dichloroethane	ug/L	20	18.5	93	70-130	
1,2-Dichloropropane	ug/L	20	18.7	94	70-130	
1,4-Dichlorobenzene	ug/L	20	19.5	98	70-130	
2-Butanone (MEK)	ug/L	40	40.0	100	47-143	
2-Hexanone	ug/L	40	35.5	89	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	36.7	92	57-132	
Acetone	ug/L	40	39.5	99	46-148	
Acrylonitrile	ug/L	200	187	93	60-143	
Benzene	ug/L	20	19.1	96	70-130	
Bromochloromethane	ug/L	20	19.6	98	70-130	
Bromodichloromethane	ug/L	20	19.4	97	70-130	
Bromoform	ug/L	20	16.6	83	49-126	
Bromomethane	ug/L	20	19.7	98	10-165	
Carbon disulfide	ug/L	20	16.2	81	60-141	
Carbon tetrachloride	ug/L	20	18.9	94	63-126	
Chlorobenzene	ug/L	20	19.2	96	70-130	
Chloroethane	ug/L	20	21.0	105	71-142	
Chloroform	ug/L	20	18.5	93	70-130	
Chloromethane	ug/L	20	14.3	72	40-140	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

LABORATORY CONTROL SAMPLE: 2664236

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	17.7	89	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.1	86	70-130	
Dibromochloromethane	ug/L	20	16.9	84	62-118	
Dibromomethane	ug/L	20	20.6	103	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
Iodomethane	ug/L	40	11.0	28	10-164	
Methylene Chloride	ug/L	20	19.6	98	65-136	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	19.6	98	64-134	
Toluene	ug/L	20	18.8	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.0	85	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	14.1	71	42-129	
Trichloroethene	ug/L	20	19.5	98	70-130	
Trichlorofluoromethane	ug/L	20	18.5	93	65-135	
Vinyl acetate	ug/L	20	20.6	103	60-144	
Vinyl chloride	ug/L	20	18.1	91	68-131	
Xylene (Total)	ug/L	60	60.2	100	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 2665100

Parameter	Units	35428469009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	19.9	99	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	19.3	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.8	94	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	19.3	96	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	18.6	93	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	19.2	96	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	17.6	88	62-127	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	20	14.4	72	45-137	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	20	19.4	97	70-130	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.3	91	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.2	91	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	18.0	90	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	17.9	89	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	34.3	86	47-143	
2-Hexanone	ug/L	5.0 U	40	33.8	84	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	34.4	86	57-132	
Acetone	ug/L	10.0 U	40	36.2	90	46-148	
Acrylonitrile	ug/L	5.0 U	200	187	93	60-143	
Benzene	ug/L	0.10 U	20	17.9	90	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.2	96	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

MATRIX SPIKE SAMPLE: 2665100

Parameter	Units	35428469009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	0.27 U	20	17.7	89	70-130	
Bromoform	ug/L	0.50 U	20	16.4	82	49-126	
Bromomethane	ug/L	0.50 U	20	15.7	79	10-165	
Carbon disulfide	ug/L	5.0 U	20	17.2	86	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	18.3	92	63-126	
Chlorobenzene	ug/L	0.50 U	20	18.4	92	70-130	
Chloroethane	ug/L	0.50 U	20	21.7	108	71-142	
Chloroform	ug/L	0.50 U	20	17.8	89	70-130	
Chloromethane	ug/L	0.62 U	20	11.3	57	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	17.0	85	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	14.6	73	70-130	
Dibromochloromethane	ug/L	0.26 U	20	15.3	76	62-118	
Dibromomethane	ug/L	0.50 U	20	18.8	94	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.7	94	70-130	
Iodomethane	ug/L	0.50 U	40	7.8 I	19	10-164	
Methylene Chloride	ug/L	2.5 U	20	18.3	91	65-136	
Styrene	ug/L	0.50 U	20	16.9	85	70-130	
Tetrachloroethene	ug/L	0.50 U	20	18.2	91	64-134	
Toluene	ug/L	0.50 U	20	18.5	93	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.8	94	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	16.3	81	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	11.0	55	42-129	
Trichloroethene	ug/L	0.50 U	20	19.3	97	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	18.4	92	65-135	
Vinyl acetate	ug/L	1.0 U	20	18.6	93	60-144	
Vinyl chloride	ug/L	0.50 U	20	18.0	90	68-131	
Xylene (Total)	ug/L	1.5 U	60	55.6	93	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2665099

Parameter	Units	35428469008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	1.0 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

SAMPLE DUPLICATE: 2665099

Parameter	Units	35428469008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	104	104	0	40	
4-Bromofluorobenzene (S)	%	95	97	2	40	
Toluene-d8 (S)	%	103	102	1	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 491902 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

METHOD BLANK: 2660017 Matrix: Water
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/09/18 03:54	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/09/18 03:54	

LABORATORY CONTROL SAMPLE: 2660018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.25	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.22	88	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661040 2661041

Parameter	Units	35429011004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.49	0.51	113	116	60-140	3	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.49	0.52	111	118	60-140	6	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 492329 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

METHOD BLANK: 2662425 Matrix: Water
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/08/18 21:19	

LABORATORY CONTROL SAMPLE: 2662426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	90-110	

SAMPLE DUPLICATE: 2662427

Parameter	Units	35428469001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0 U		5	

SAMPLE DUPLICATE: 2662428

Parameter	Units	35428563002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	259	258	0	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 492555
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35428469001

METHOD BLANK: 2663696
Matrix: Water
Associated Lab Samples: 35428469001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/09/18 14:35	

LABORATORY CONTROL SAMPLE: 2663697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2663698 2663699

Parameter	Units	35428033001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.7	50	50	56.5	56.1	102	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2663700 2663701

Parameter	Units	35428343001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.2	50	50	60.7	61.0	101	102	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 492587 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008

METHOD BLANK: 2663904 Matrix: Water
Associated Lab Samples: 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/09/18 19:08	

LABORATORY CONTROL SAMPLE: 2663905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2664240 2664241

Parameter	Units	35428364002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.5	50	50	71.4	71.1	108	107	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2664242 2664243

Parameter	Units	35428370004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	24.9	50	50	80.9	82.7	112	116	90-110	2	20	J(M1)

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 492939
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35428469009

METHOD BLANK: 2666089 Matrix: Water
Associated Lab Samples: 35428469009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/12/18 09:40	

LABORATORY CONTROL SAMPLE: 2666090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2666091 2666092

Parameter	Units	35429556001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.9	50	50	68.2	67.5	107	105	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2667686 2667687

Parameter	Units	35429687002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	44.9	100	100	142	149	98	104	90-110	4	20	

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

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 491664 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35428469001, 35428469002, 35428469003

METHOD BLANK: 2658694 Matrix: Water
Associated Lab Samples: 35428469001, 35428469002, 35428469003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/07/18 11:20	

LABORATORY CONTROL SAMPLE: 2658695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE: 2658697

Parameter	Units	35428797001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	1	0.96	94	90-110	

SAMPLE DUPLICATE: 2658696

Parameter	Units	35428797001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.035 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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 491999 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

METHOD BLANK: 2660824 Matrix: Water
Associated Lab Samples: 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/08/18 11:07	

LABORATORY CONTROL SAMPLE: 2660825

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

MATRIX SPIKE SAMPLE: 2660827

Parameter	Units	35428469004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.52	1	1.5	97	90-110	

SAMPLE DUPLICATE: 2660826

Parameter	Units	35428469004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.52	0.51	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

QC Batch: 491505 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

METHOD BLANK: 2657711 Matrix: Water
Associated Lab Samples: 35428469001, 35428469002, 35428469003, 35428469004, 35428469005, 35428469006, 35428469007, 35428469008, 35428469009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/06/18 16:33	

SAMPLE DUPLICATE: 2657713

Parameter	Units	35428453001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.096	0.10	3	20	

SAMPLE DUPLICATE: 2657715

Parameter	Units	35428469002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.091	0.093	3	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

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.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

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

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35428469002	**B40-2**				
35428469003	**B40-1**				
35428469004	**B65**				
35428469005	**B41-2**				
35428469006	**B1-B**				
35428469007	**B42-1**				
35428469008	**B42-2**				
35428469009	**B40-1 Dup**				
35428469001	**EQ Blank 11/5/18**	EPA 8011	491902	EPA 8011	492308
35428469002	**B40-2**	EPA 8011	491902	EPA 8011	492308
35428469003	**B40-1**	EPA 8011	491902	EPA 8011	492308
35428469004	**B65**	EPA 8011	491902	EPA 8011	492308
35428469005	**B41-2**	EPA 8011	491902	EPA 8011	492308
35428469006	**B1-B**	EPA 8011	491902	EPA 8011	492308
35428469007	**B42-1**	EPA 8011	491902	EPA 8011	492308
35428469008	**B42-2**	EPA 8011	491902	EPA 8011	492308
35428469009	**B40-1 Dup**	EPA 8011	491902	EPA 8011	492308
35428469001	**EQ Blank 11/5/18**	EPA 3010	491977	EPA 6010	491982
35428469002	**B40-2**	EPA 3010	491977	EPA 6010	491982
35428469003	**B40-1**	EPA 3010	491977	EPA 6010	491982
35428469004	**B65**	EPA 3010	491977	EPA 6010	491982
35428469005	**B41-2**	EPA 3010	491977	EPA 6010	491982
35428469006	**B1-B**	EPA 3010	491977	EPA 6010	491982
35428469007	**B42-1**	EPA 3010	491977	EPA 6010	491982
35428469008	**B42-2**	EPA 3010	491977	EPA 6010	491982
35428469009	**B40-1 Dup**	EPA 3010	491977	EPA 6010	491982
35428469001	**EQ Blank 11/5/18**	EPA 3010	491978	EPA 6020	491983
35428469002	**B40-2**	EPA 3010	491978	EPA 6020	491983
35428469003	**B40-1**	EPA 3010	491978	EPA 6020	491983
35428469004	**B65**	EPA 3010	491978	EPA 6020	491983
35428469005	**B41-2**	EPA 3010	491978	EPA 6020	491983
35428469006	**B1-B**	EPA 3010	491978	EPA 6020	491983
35428469007	**B42-1**	EPA 3010	491978	EPA 6020	491983
35428469008	**B42-2**	EPA 3010	491978	EPA 6020	491983
35428469009	**B40-1 Dup**	EPA 3010	491978	EPA 6020	491983
35428469001	**EQ Blank 11/5/18**	EPA 7470	493014	EPA 7470	493061
35428469002	**B40-2**	EPA 7470	493014	EPA 7470	493061
35428469003	**B40-1**	EPA 7470	493014	EPA 7470	493061
35428469004	**B65**	EPA 7470	493014	EPA 7470	493061
35428469005	**B41-2**	EPA 7470	493014	EPA 7470	493061
35428469006	**B1-B**	EPA 7470	493014	EPA 7470	493061
35428469007	**B42-1**	EPA 7470	493014	EPA 7470	493061
35428469008	**B42-2**	EPA 7470	493014	EPA 7470	493061
35428469009	**B40-1 Dup**	EPA 7470	493014	EPA 7470	493061
35428469001	**EQ Blank 11/5/18**	EPA 8260	492624		
35428469002	**B40-2**	EPA 8260	492624		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428469

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35428469003	**B40-1**	EPA 8260	492624		
35428469004	**B65**	EPA 8260	492624		
35428469005	**B41-2**	EPA 8260	492624		
35428469006	**B1-B**	EPA 8260	492624		
35428469007	**B42-1**	EPA 8260	492624		
35428469008	**B42-2**	EPA 8260	492624		
35428469009	**B40-1 Dup**	EPA 8260	492624		
35428469010	**Trip Blank 11/5/18**	EPA 8260	492624		
35428469001	**EQ Blank 11/5/18**	SM 2540C	492329		
35428469002	**B40-2**	SM 2540C	492329		
35428469003	**B40-1**	SM 2540C	492329		
35428469004	**B65**	SM 2540C	492329		
35428469005	**B41-2**	SM 2540C	492329		
35428469006	**B1-B**	SM 2540C	492329		
35428469007	**B42-1**	SM 2540C	492329		
35428469008	**B42-2**	SM 2540C	492329		
35428469009	**B40-1 Dup**	SM 2540C	492329		
35428469001	**EQ Blank 11/5/18**	EPA 300.0	492555		
35428469002	**B40-2**	EPA 300.0	492587		
35428469003	**B40-1**	EPA 300.0	492587		
35428469004	**B65**	EPA 300.0	492587		
35428469005	**B41-2**	EPA 300.0	492587		
35428469006	**B1-B**	EPA 300.0	492587		
35428469007	**B42-1**	EPA 300.0	492587		
35428469008	**B42-2**	EPA 300.0	492587		
35428469009	**B40-1 Dup**	EPA 300.0	492939		
35428469001	**EQ Blank 11/5/18**	EPA 350.1	491664		
35428469002	**B40-2**	EPA 350.1	491664		
35428469003	**B40-1**	EPA 350.1	491664		
35428469004	**B65**	EPA 350.1	491999		
35428469005	**B41-2**	EPA 350.1	491999		
35428469006	**B1-B**	EPA 350.1	491999		
35428469007	**B42-1**	EPA 350.1	491999		
35428469008	**B42-2**	EPA 350.1	491999		
35428469009	**B40-1 Dup**	EPA 350.1	491999		
35428469001	**EQ Blank 11/5/18**	EPA 353.2	491505		
35428469002	**B40-2**	EPA 353.2	491505		
35428469003	**B40-1**	EPA 353.2	491505		
35428469004	**B65**	EPA 353.2	491505		
35428469005	**B41-2**	EPA 353.2	491505		
35428469006	**B1-B**	EPA 353.2	491505		
35428469007	**B42-1**	EPA 353.2	491505		
35428469008	**B42-2**	EPA 353.2	491505		
35428469009	**B40-1 Dup**	EPA 353.2	491505		

REPORT OF LABORATORY ANALYSIS

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

WO# : 35428469

35428469

AIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company:	Volusia County Solid Waste Management
Address:	1990 Tomoka Farms Road
	Port Orange, FL 32128
Email:	jstirk@volusia.org
Phone:	(386)947-2952 Fax:
Requested Due Date:	

Required Project Information:

Report To:	Jennifer Stirk
Copy To:	
Purchase Order #:	
Project Name:	Tomoka LF Semi-annual MWs
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	jeff.baylor@pacelabs.com,
Pace Profile #:	1590, Line 1

Regulatory Agency

State / Location

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: TDS, NO3, CL	ammonia	Metals by 6010/6020/Hg	EDB 8011	8260 VOCs Full List	Trip Blank DO NOT OPEN -	Residual Chlorine (Y/N)
1	EQ					11-5-18	9:45												X	X	X	X	X	X	
2	B40-2						10:25																		
3	B40-1						10:57																		
4	B-65						11:55																		
5	B41-2						12:41																		
6	B-1B						13:3																		
7	B42-1						14:24																		
8	B42-2						14:43																		
9	DUP						10:57																		
10	Trip Blank						0000																		
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		11/4/18	1600							
		11-5-18	1545	AGI	11-5-18	1545	5.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: BRUCE FOSTER

SIGNATURE of SAMPLER:

DATE Signed: 11-5-18

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35428469

Project Manager: PM: JSB **Due Date:** 11/19/18

Client: CLIENT: VOLDPW

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

Thermometer Used: T338 Date: 11/5/18 Time: 1545 Initials: KBI

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

Cooler #1 Temp.°C	5.1 (Visual)	0 (Correction Factor)	5.1 (Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	5.5 (Visual)	0 (Correction Factor)	5.5 (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	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑ No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☑Yes ☐ No ☐N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑Yes ☐ No ☐N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐Yes ☑ No ☐N/A	
Trip Blank Present:	☑Yes ☐ No ☐N/A	

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

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waster	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B42-2	SAMPLE ID: B42-2	DATE: 11-5-15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 14 feet to 85 feet	STATIC DEPTH TO WATER (feet): 4.55	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (14.85 feet – 4.55 feet) X gallons/foot = 1.648 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 1432	PURGING ENDED AT: 1443	TOTAL VOLUME PURGED (gallons): 2.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1439	1.75	1.75	.25	5.16	6.26	23.5	340	1.08	7.66	yellow	sulfur
1441	.50	2.25	.25	5.16	6.18	23.5	341.5	0.56	3.68		
1443	.50	2.75	.25	5.16	6.16	23.5	342.8	0.42	4.07		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1443	SAMPLING ENDED AT: 1450
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	AG	1000	ICE		6.16	TDS NO3 CL	APP	400
	1	PE	250	HNO3			METALS Colored		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCL			8260		
	2	CG	40	ICE			8011		

REMARKS: 40 06 0.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid WASTE	SITE LOCATION: TOMOKA LF SEMI ANNUAL MWS	
WELL NO: EQ	SAMPLE ID: EQ	DATE: 11-5-18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: P

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BRUCE FOSTER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 7:45	SAMPLING ENDED AT: 9:55
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE			TDS NO3 CL	APP	400
	1	PE	250	HNO3			METALS 6010/6020	|	|
	1	PE	250	H2SO4			AMMONIA	|	|
	3	CG	40	HCL			8260	|	|
	2	CG	40	ICE			8011	|	|

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Florida Laboratory	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid WASTE	SITE LOCATION: TOMOKA LF SCMI ANNUAL MWS	
WELL NO: B-40-2	SAMPLE ID: B40-2	DATE: 11-5-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 15 feet	STATIC DEPTH TO WATER (feet): 3.67	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (17.13 feet – 3.67 feet) X 0.16 gallons/foot = 2.15 X gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 10:00	PURGING ENDED AT: 10:25	TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:19	2.16	2.16	.24	4.54	6.15	23.0	605	0.48	8.58	yellow	Sulfur
10:22	0.72	2.88	.24	4.85	6.15	23.0	606	0.41	7.52	1	1
10:25	0.72	3.60	.24	4.54	6.16	23.0	611	0.38	7.38	1	1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:25	SAMPLING ENDED AT: 10:31
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.16	TDS NO3 CL	APP	200
	1	PE	250	HNO3			METALS 6010/6020	|	|
	1	PE	250	~~H2SO4~~ H2SO4			Ammonia	|	|
	3	AG	40	ICE			8260	|	|
	2	AG	40	ICE			8011	|	|

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Somoka LF SEMI Annuals	
WELL NO: BMW-1 / Dup	SAMPLE ID: BMW-1 / Dup	DATE: 11-5-14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 29 feet to 60 feet	STATIC DEPTH TO WATER (feet): 4.94	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (29.60 feet – 4.94 feet) X 0.16 gallons/foot = 3.9392 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11	PURGING INITIATED AT: 10:35	PURGING ENDED AT: 10:59	TOTAL VOLUME PURGED (gallons): 6.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:51	4.00	4.00	.25	9.75	5.64	23.2	643	0.95	16.2	tan/clear	Sulfur
10:55	1.00	5.00	.25	9.75	5.62	23.1	645	0.82	12.9	"	"
10:59	1.00	6.00	.25	9.75	5.62	23.1	652	6.47	4.99	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Tobey	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:59	SAMPLING ENDED AT: 11:08
PUMP OR TUBING DEPTH IN WELL (feet): 11	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		5.62	TDS 160.1	APP	400
	1	PE	250	HNO3			METALS 6010/6020	APP	"
	1	PE	250	H2SO4			Ammonia	"	"
	3	CG	40	HCL			8260	"	"
	2	CG	40	ICE			8011	"	"

REMARKS:
OAD 29.6 29.2 29.41

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B-65	SAMPLE ID: B-65	DATE: 11-5-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 62 feet	STATIC DEPTH TO WATER (feet): 3.87	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (17.62 feet – 3.87 feet) X 0.16 gallons/foot = 2.1964 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 11:40	PURGING ENDED AT: 11:55	TOTAL VOLUME PURGED (gallons): 375

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:49	2.25	2.25	.25	4.04	6.14	23.1	549	0.51	5.18	yellow	Sulfur
11:52	.75	3.00	.25	4.04	6.14	23.1	549	0.42	3.13	/	/
11:55	.75	3.75	.25	4.04	6.14	23.1	549	0.30	6.41		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Koziol	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:55	SAMPLING ENDED AT: 12:01
PUMP OR TUBING DEPTH IN WELL (feet): 5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE			TDS/NO3 LL	APP	400
	1	PE	250	HNO3		6.14	METAL Cations	/	/
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCL			8260		
	2	CG	40	ICE			Soil		

REMARKS: -1.2 -5.7 -6.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B41-2	SAMPLE ID: B41-2	DATE: 11-5-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 54 feet	STATIC DEPTH TO WATER (feet): 5.31	PURGE PUMP TYPE OR BAILER: 1,95Cg

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (17.54 feet – 5.31 feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 12:34	PURGING ENDED AT: 12:46	TOTAL VOLUME PURGED (gallons): 3.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:42	2.00	2.00	.25	5.37	6.79	22.2	461	0.14	1.92	y= 11	Sulfa.
12:44	0.50	2.50	.25	5.37	6.78	21.7	458.3	0.14	1.48	/	/
12:46	0.50	3.00	.25	5.37	6.79	21.6	457.9	0.13	1.81	/	/

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Paul E Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:46	SAMPLING ENDED AT: 12:52
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.79	TDS NO3 Cl	APP	400
	1	PE	250	HNO3			METALS 6010/6020	/	/
	1	PE	250	H2SO4			Ammonia	/	/
	3	CG	40	HCl			624.0	/	/
	2	CG	40	ICE			8011	/	/

REMARKS: ORP = 61.5 -67.1 -68.8

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LFGEMS Annual
WELL NO: B-1-B	SAMPLE ID: B-1B	DATE: 11-5-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 35 feet to 80 feet	STATIC DEPTH TO WATER (feet): 6.45	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.50 feet – feet) X 0.16 gallons/foot = 4.7104 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4	PURGING INITIATED AT: 13:01	PURGING ENDED AT: 13:30	TOTAL VOLUME PURGED (gallons): 7.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:20	4.75	4.75	.25	7.12	6.55	23.9	738	0.44	6.61	yellow	sulfur
13:25	1.25	6.00	.25	7.12	6.54	23.9	737	0.31	4.49	1	1
13:30	1.25	7.25	.25	7.12	6.51	23.9	736	0.21	3.99	1	1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:30	SAMPLING ENDED AT: 13:37
PUMP OR TUBING DEPTH IN WELL (feet): 4	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	Ice		6.35	TDS NO3 Cl	APP	200
	1	PE	250	HNO_3			Metals 6010/6020	|	|
	1	PE	250	H_2SO_4			Ammonia	|	|
	3	CG	40	HCl			8260	|	|
	2	CG	40	Ice			8011		

REMARKS: -52.7 -52.0 -51.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid Waste	SITE LOCATION:	Tomoka LF Semiannual
WELL NO:	B42-1	SAMPLE ID:	B42-1
		DATE:	11-5-18

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	31.8 feet to 36 feet	STATIC DEPTH TO WATER (feet):	6.85	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (31.36 feet – 6.85 feet) X 0.16 gallons/foot = 3.9216 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	16	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	16	PURGING INITIATED AT:	1400	PURGING ENDED AT:	14:24	TOTAL VOLUME PURGED (gallons):	6.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:16	4.00	4.00	.25	7.02	6.13	23.7	610	0.72	2.43	yellow	SULFUR
14:20	1.00	5.00	.25	7.02	6.08	23.5	612	0.44	2.35		
14:24	1.00	6.00	.25	7.02	6.07	23.5	613	0.38	2.50		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Bruce Foster	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	14:24 ~~6.00~~	SAMPLING ENDED AT:	14:30
PUMP OR TUBING DEPTH IN WELL (feet):	16	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)		DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.07	TDS 160.1	APP	400
	1	PE	250	HNO_3			METAL 6010 6020		
	1	PE	250	H_2SO_4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	ICE			6011		

REMARKS:
20.0 20.0 20.0

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 20, 2018

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Dear Ms. Stirk:
Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, Volusia County Solid Waste Man

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35428777001	**EQ Blank 11/6/18**	Water	11/06/18 09:15	11/06/18 16:15
35428777002	**MO5-B**	Water	11/06/18 09:51	11/06/18 16:15
35428777003	**B45-2**	Water	11/06/18 10:17	11/06/18 16:15
35428777004	**B45-2 DUP**	Water	11/06/18 10:17	11/06/18 16:15
35428777005	**B44**	Water	11/06/18 10:50	11/06/18 16:15
35428777006	**B43-1**	Water	11/06/18 11:49	11/06/18 16:15
35428777007	**B43-2**	Water	11/06/18 12:01	11/06/18 16:15
35428777008	**B71**	Water	11/06/18 13:12	11/06/18 16:15
35428777009	**B72**	Water	11/06/18 13:55	11/06/18 16:15
35428777010	**B73-1**	Water	11/06/18 14:58	11/06/18 16:15
35428777011	**B73-2**	Water	11/06/18 15:25	11/06/18 16:15
35428777012	**CANCEL**	Water	11/06/18 00:00	11/06/18 16:15
35428777013	**Trip Blank 11/6/18**	Water	11/06/18 00:00	11/06/18 16:15

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35428777001	**EQ Blank 11/6/18**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428777002	**MO5-B**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428777003	**B45-2**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428777004	**B45-2 DUP**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428777005	**B44**	EPA 8011	MMB	2	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428777006	**B43-1**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428777007	**B43-2**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428777008	**B71**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	AMP	1	PASI-O
35428777009	**B72**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35428777010	**B73-1**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35428777011	**B73-2**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	14	PASI-O
		EPA 6020	FDV	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35428777013	**Trip Blank 11/6/18**	EPA 8260	BTN	50	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428777001	**EQ Blank 11/6/18**					
EPA 6010	Barium	8.7 I	ug/L	10.0	11/09/18 14:01	
35428777002	**MO5-B**					
	Field pH	6.04	Std. Units		11/08/18 11:43	
	Field Temperature	23.7	deg C		11/08/18 11:43	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:43	
	Field Specific Conductance	1060	umhos/cm		11/08/18 11:43	
	Oxygen, Dissolved	2.56	mg/L		11/08/18 11:43	
	Turbidity	0.47	NTU		11/08/18 11:43	
	Water Level(NGVD)	21.05	feet		11/08/18 11:43	
EPA 6010	Barium	180	ug/L	10.0	11/09/18 14:04	
EPA 6010	Chromium	2.8 I	ug/L	5.0	11/09/18 14:04	
EPA 6010	Cobalt	2.1 I	ug/L	10.0	11/09/18 14:04	
EPA 6010	Iron	11400	ug/L	40.0	11/09/18 14:04	
EPA 6010	Nickel	2.4 I	ug/L	5.0	11/09/18 14:04	
EPA 6010	Sodium	107	mg/L	2.0	11/09/18 14:04	
EPA 6010	Vanadium	2.8 I	ug/L	10.0	11/09/18 14:04	
EPA 6020	Arsenic	1.3	ug/L	1.0	11/09/18 08:13	
SM 2540C	Total Dissolved Solids	672	mg/L	10.0	11/13/18 14:18	
EPA 300.0	Chloride	82.3	mg/L	25.0	11/09/18 06:43	
EPA 350.1	Nitrogen, Ammonia	4.6	mg/L	0.050	11/08/18 12:55	
EPA 353.2	Nitrogen, Nitrate	0.039 I	mg/L	0.050	11/07/18 13:58	
35428777003	**B45-2**					
	Field pH	5.23	Std. Units		11/08/18 11:49	
	Field Temperature	24.4	deg C		11/08/18 11:49	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:49	
	Field Specific Conductance	587	umhos/cm		11/08/18 11:49	
	Oxygen, Dissolved	1.23	mg/L		11/08/18 11:49	
	REDOX	3.19	mV		11/08/18 11:49	
	Turbidity	6.21	NTU		11/08/18 11:49	
	Water Level(NGVD)	23.95	feet		11/08/18 11:49	
EPA 6010	Barium	80.1	ug/L	10.0	11/09/18 14:07	
EPA 6010	Cobalt	2.3 I	ug/L	10.0	11/09/18 14:07	
EPA 6010	Iron	34200	ug/L	40.0	11/09/18 14:07	
EPA 6010	Nickel	3.7 I	ug/L	5.0	11/09/18 14:07	
EPA 6010	Sodium	31.7	mg/L	2.0	11/09/18 14:07	
EPA 6010	Vanadium	12.0	ug/L	10.0	11/09/18 14:07	
EPA 6020	Arsenic	19.8	ug/L	1.0	11/09/18 08:15	
EPA 8260	Benzene	1.0	ug/L	1.0	11/14/18 16:49	
SM 2540C	Total Dissolved Solids	361	mg/L	5.0	11/13/18 14:18	
EPA 300.0	Chloride	112	mg/L	10.0	11/14/18 20:30	
EPA 350.1	Nitrogen, Ammonia	0.074	mg/L	0.050	11/08/18 12:57	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428777003	**B45-2**					
EPA 353.2	Nitrogen, Nitrate	0.063	mg/L	0.050	11/07/18 14:00	
35428777004	**B45-2 DUP**					
	Field pH	5.23	Std. Units		11/08/18 11:50	
	Field Temperature	24.4	deg C		11/08/18 11:50	
	Appearance	Color:Sulfur, Sheen:None			11/08/18 11:50	
	Field Specific Conductance	587	umhos/cm		11/08/18 11:50	
	Oxygen, Dissolved	1.23	mg/L		11/08/18 11:50	
	REDOX	3.19	mV		11/08/18 11:50	
	Turbidity	6.21	NTU		11/08/18 11:50	
	Water Level(NGVD)	23.95	feet		11/08/18 11:50	
EPA 6010	Barium	75.0	ug/L	10.0	11/09/18 14:10	
EPA 6010	Chromium	2.3 I	ug/L	5.0	11/09/18 14:10	
EPA 6010	Cobalt	2.2 I	ug/L	10.0	11/09/18 14:10	
EPA 6010	Iron	32500	ug/L	40.0	11/09/18 14:10	
EPA 6010	Nickel	3.9 I	ug/L	5.0	11/09/18 14:10	
EPA 6010	Sodium	29.9	mg/L	2.0	11/09/18 14:10	
EPA 6010	Vanadium	12.9	ug/L	10.0	11/09/18 14:10	
EPA 6020	Arsenic	18.1	ug/L	1.0	11/09/18 08:17	
EPA 8260	Benzene	0.98 I	ug/L	1.0	11/14/18 17:14	
SM 2540C	Total Dissolved Solids	304	mg/L	5.0	11/13/18 14:19	
EPA 300.0	Chloride	109	mg/L	10.0	11/14/18 20:52	
EPA 350.1	Nitrogen, Ammonia	0.074	mg/L	0.050	11/08/18 12:58	
EPA 353.2	Nitrogen, Nitrate	0.078	mg/L	0.050	11/07/18 14:03	
35428777005	**B44**					
	Field pH	4.86	Std. Units		11/08/18 11:52	
	Field Temperature	24.4	deg C		11/08/18 11:52	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:52	
	Field Specific Conductance	303	umhos/cm		11/08/18 11:52	
	Oxygen, Dissolved	0.87	mg/L		11/08/18 11:52	
	REDOX	97.8	mV		11/08/18 11:52	
	Turbidity	12.10	NTU		11/08/18 11:52	
	Water Level(NGVD)	23.68	feet		11/08/18 11:52	
EPA 6010	Barium	27.3	ug/L	10.0	11/09/18 14:13	
EPA 6010	Chromium	2.3 I	ug/L	5.0	11/09/18 14:13	
EPA 6010	Cobalt	1.0 I	ug/L	10.0	11/09/18 14:13	
EPA 6010	Iron	13400	ug/L	40.0	11/09/18 14:13	
EPA 6010	Sodium	26.7	mg/L	2.0	11/09/18 14:13	
EPA 6010	Vanadium	6.9 I	ug/L	10.0	11/09/18 14:13	
EPA 6020	Arsenic	1.3	ug/L	1.0	11/09/18 08:19	
SM 2540C	Total Dissolved Solids	175	mg/L	5.0	11/13/18 14:19	
EPA 300.0	Chloride	70.8	mg/L	5.0	11/12/18 15:54	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428777005	**B44**					
EPA 353.2	Nitrogen, Nitrate	0.089	mg/L	0.050	11/07/18 14:05	
35428777006	**B43-1**					
	Field pH	5.80	Std. Units		11/08/18 11:58	
	Field Temperature	24.0	deg C		11/08/18 11:58	
	Appearance	Color:Yellow, Sheen:None			11/08/18 11:58	
	Field Specific Conductance	717	umhos/cm		11/08/18 11:58	
	Oxygen, Dissolved	1.53	mg/L		11/08/18 11:58	
	Turbidity	13.64	NTU		11/08/18 11:58	
	Water Level(NGVD)	23.19	feet		11/08/18 11:58	
EPA 6010	Barium	165	ug/L	10.0	11/09/18 14:21	
EPA 6010	Cobalt	1.3 I	ug/L	10.0	11/09/18 14:21	
EPA 6010	Iron	29900	ug/L	40.0	11/09/18 14:21	
EPA 6010	Sodium	69.6	mg/L	2.0	11/09/18 14:21	
EPA 6010	Vanadium	2.0 I	ug/L	10.0	11/09/18 14:21	
EPA 6020	Arsenic	3.5	ug/L	1.0	11/09/18 08:20	
EPA 8260	Chlorobenzene	0.60 I	ug/L	1.0	11/14/18 18:03	
SM 2540C	Total Dissolved Solids	484	mg/L	5.0	11/13/18 14:19	
EPA 300.0	Chloride	88.8	mg/L	10.0	11/12/18 17:05	
EPA 350.1	Nitrogen, Ammonia	1.8	mg/L	0.050	11/08/18 13:06	
EPA 353.2	Nitrogen, Nitrate	0.034 I	mg/L	0.050	11/07/18 14:06	
35428777007	**B43-2**					
	Field pH	6.23	Std. Units		11/08/18 12:03	
	Field Temperature	24.2	deg C		11/08/18 12:03	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:03	
	Field Specific Conductance	778	umhos/cm		11/08/18 12:03	
	Oxygen, Dissolved	0.71	mg/L		11/08/18 12:03	
	REDOX	0.82	mV		11/08/18 12:03	
	Turbidity	7.83	NTU		11/08/18 12:03	
	Water Level(NGVD)	23.27	feet		11/08/18 12:03	
EPA 6010	Barium	46.0	ug/L	10.0	11/09/18 14:24	
EPA 6010	Cobalt	1.9 I	ug/L	10.0	11/09/18 14:24	
EPA 6010	Iron	9560	ug/L	40.0	11/09/18 14:24	
EPA 6010	Sodium	37.5	mg/L	2.0	11/09/18 14:24	
EPA 6010	Vanadium	3.8 I	ug/L	10.0	11/09/18 14:24	
EPA 6020	Arsenic	1.6	ug/L	1.0	11/09/18 08:22	
SM 2540C	Total Dissolved Solids	521	mg/L	5.0	11/13/18 14:19	
EPA 300.0	Chloride	38.7	mg/L	10.0	11/12/18 17:28	
EPA 350.1	Nitrogen, Ammonia	0.063	mg/L	0.050	11/08/18 13:08	
EPA 353.2	Nitrogen, Nitrate	0.035 I	mg/L	0.050	11/07/18 14:07	
35428777008	**B71**					
	Field pH	5.25	Std. Units		11/08/18 12:05	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428777008	**B71**					
	Field Temperature	26.0	deg C		11/08/18 12:05	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:05	
	Field Specific Conductance	152	umhos/cm		11/08/18 12:05	
	Oxygen, Dissolved	1.64	mg/L		11/08/18 12:05	
	REDOX	180.6	mV		11/08/18 12:05	
	Turbidity	33.14	NTU		11/08/18 12:05	
	Water Level(NGVD)	21.46	feet		11/08/18 12:05	
EPA 6010	Barium	20.2	ug/L	10.0	11/09/18 14:27	
EPA 6010	Chromium	3.3 I	ug/L	5.0	11/09/18 14:27	
EPA 6010	Iron	1100	ug/L	40.0	11/09/18 14:27	
EPA 6010	Sodium	3.9	mg/L	2.0	11/09/18 14:27	
EPA 6010	Vanadium	9.7 I	ug/L	10.0	11/09/18 14:27	
EPA 6010	Zinc	21.8	ug/L	20.0	11/09/18 14:27	
EPA 6020	Arsenic	0.95 I	ug/L	1.0	11/09/18 08:24	
SM 2540C	Total Dissolved Solids	97.0	mg/L	5.0	11/13/18 14:19	
EPA 300.0	Chloride	5.3	mg/L	5.0	11/12/18 17:52	
EPA 353.2	Nitrogen, Nitrate	1.6	mg/L	0.050	11/07/18 14:09	
35428777009	**B72**					
	Field pH	6.42	Std. Units		11/08/18 12:09	
	Field Temperature	26.6	deg C		11/08/18 12:09	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:09	
	Field Specific Conductance	453	umhos/cm		11/08/18 12:09	
	Oxygen, Dissolved	3.75	mg/L		11/08/18 12:09	
	REDOX	133.7	mV		11/08/18 12:09	
	Turbidity	40.77	NTU		11/08/18 12:09	
	Water Level(NGVD)	21.16	feet		11/08/18 12:09	
EPA 6010	Barium	28.2	ug/L	10.0	11/09/18 14:30	
EPA 6010	Copper	3.6 I	ug/L	5.0	11/09/18 14:30	
EPA 6010	Iron	1600	ug/L	40.0	11/09/18 14:30	
EPA 6010	Sodium	4.0	mg/L	2.0	11/09/18 14:30	
EPA 6010	Vanadium	11.4	ug/L	10.0	11/09/18 14:30	
EPA 6010	Zinc	70.7	ug/L	20.0	11/09/18 14:30	
EPA 6020	Arsenic	1.0 I	ug/L	1.0	11/09/18 08:26	
SM 2540C	Total Dissolved Solids	236	mg/L	5.0	11/13/18 14:19	
EPA 300.0	Chloride	4.2 I	mg/L	5.0	11/12/18 18:15	
35428777010	**B73-1**					
	Field pH	6.48	Std. Units		11/08/18 12:10	
	Field Temperature	24.9	deg C		11/08/18 12:10	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:10	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428777010	**B73-1**					
	Field Specific Conductance	638	umhos/cm		11/08/18 12:10	
	Oxygen, Dissolved	0.91	mg/L		11/08/18 12:10	
	REDOX	-97.0	mV		11/08/18 12:10	
	Turbidity	13.80	NTU		11/08/18 12:10	
	Water Level(NGVD)	21.60	feet		11/08/18 12:10	
EPA 6010	Barium	48.8	ug/L	10.0	11/09/18 14:33	
EPA 6010	Iron	13600	ug/L	40.0	11/09/18 14:33	
EPA 6010	Sodium	29.3	mg/L	2.0	11/09/18 14:33	
EPA 6010	Vanadium	1.1 I	ug/L	10.0	11/09/18 14:33	
EPA 6020	Arsenic	0.53 I	ug/L	1.0	11/09/18 08:28	
SM 2540C	Total Dissolved Solids	387	mg/L	5.0	11/13/18 14:19	
EPA 300.0	Chloride	11.9	mg/L	5.0	11/12/18 18:38	
EPA 350.1	Nitrogen, Ammonia	0.10	mg/L	0.050	11/08/18 13:13	
EPA 353.2	Nitrogen, Nitrate	0.088	mg/L	0.050	11/07/18 09:59	
35428777011	**B73-2**					
	Field pH	6.03	Std. Units		11/08/18 12:13	
	Field Temperature	26.0	deg C		11/08/18 12:13	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:13	
	Field Specific Conductance	206	umhos/cm		11/08/18 12:13	
	Oxygen, Dissolved	1.45	mg/L		11/08/18 12:13	
	REDOX	29.4	mV		11/08/18 12:13	
	Turbidity	10.62	NTU		11/08/18 12:13	
	Water Level(NGVD)	22.00	feet		11/08/18 12:13	
EPA 6010	Barium	23.7	ug/L	10.0	11/09/18 14:36	
EPA 6010	Cobalt	1.1 I	ug/L	10.0	11/09/18 14:36	
EPA 6010	Iron	1470	ug/L	40.0	11/09/18 14:36	
EPA 6010	Sodium	3.4	mg/L	2.0	11/09/18 14:36	
EPA 6010	Vanadium	4.2 I	ug/L	10.0	11/09/18 14:36	
EPA 6020	Arsenic	4.4	ug/L	1.0	11/09/18 08:34	
SM 2540C	Total Dissolved Solids	126	mg/L	5.0	11/13/18 14:19	
EPA 300.0	Chloride	5.5	mg/L	5.0	11/12/18 19:02	
EPA 353.2	Nitrogen, Nitrate	0.031 I	mg/L	0.050	11/07/18 10:00	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: EQ Blank 11/6/18 **Lab ID: 35428777001** Collected: 11/06/18 09:15 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 11:49	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/08/18 11:55	11/09/18 11:49	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**8.7 I**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:01	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:01	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:01	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:01	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:01	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:01	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:01	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:01	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:01	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:01	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:01	7440-22-4	
Sodium	**0.27 U**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:01	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:01	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:01	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:11	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:11	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 17:46	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 11:08	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:08	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 11:08	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 11:08	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 11:08	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:08	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:08	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 11:08	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 11:08	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 11:08	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 11:08	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 11:08	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: EQ Blank 11/6/18 **Lab ID: 35428777001** Collected: 11/06/18 09:15 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:08	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 11:08	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 11:08	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:08	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 11:08	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 11:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:08	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 11:08	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 11:08	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 11:08	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:08	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/14/18 11:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/14/18 11:08	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		11/14/18 11:08	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/14/18 11:08	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		11/13/18 14:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5 U**	mg/L	5.0	2.5	1		11/09/18 06:21	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/08/18 12:53	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/07/18 13:57	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: MO5-B **Lab ID: 35428777002** Collected: 11/06/18 09:51 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.04**	Std. Units			1		11/08/18 11:43		
Field Temperature	**23.7**	deg C			1		11/08/18 11:43		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:43		
Field Specific Conductance	**1060**	umhos/cm			1		11/08/18 11:43		
Oxygen, Dissolved	**2.56**	mg/L			1		11/08/18 11:43	7782-44-7	
Turbidity	**0.47**	NTU			1		11/08/18 11:43		
Water Level(NGVD)	**21.05**	feet			1		11/08/18 11:43		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/08/18 11:55	11/09/18 12:33	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/08/18 11:55	11/09/18 12:33	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**180**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:04	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:04	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:04	7440-43-9	
Chromium	**2.8 I**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:04	7440-47-3	
Cobalt	**2.1 I**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:04	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:04	7440-50-8	
Iron	**11400**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:04	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:04	7439-92-1	
Nickel	**2.4 I**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:04	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:04	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:04	7440-22-4	
Sodium	**107**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:04	7440-23-5	
Vanadium	**2.8 I**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:04	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:04	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:13	7440-36-0	
Arsenic	**1.3**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:13	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 17:57	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 16:00	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:00	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 16:00	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 16:00	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	75-25-2	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: MO5-B **Lab ID: 35428777002** Collected: 11/06/18 09:51 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 16:00	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:00	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:00	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 16:00	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 16:00	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 16:00	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 16:00	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 16:00	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:00	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 16:00	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 16:00	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:00	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 16:00	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 16:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:00	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 16:00	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 16:00	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 16:00	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:00	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/14/18 16:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/14/18 16:00	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		11/14/18 16:00	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/14/18 16:00	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**672**	mg/L	10.0	10.0	1		11/13/18 14:18		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: MO5-B **Lab ID: 35428777002** Collected: 11/06/18 09:51 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**82.3**	mg/L	25.0	12.5	5		11/09/18 06:43	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.6**	mg/L	0.050	0.035	1		11/08/18 12:55	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.039 I**	mg/L	0.050	0.025	1		11/07/18 13:58	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B45-2 **Lab ID: 35428777003** Collected: 11/06/18 10:17 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.23**	Std. Units			1		11/08/18 11:49		
Field Temperature	**24.4**	deg C			1		11/08/18 11:49		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:49		
Field Specific Conductance	**587**	umhos/cm			1		11/08/18 11:49		
Oxygen, Dissolved	**1.23**	mg/L			1		11/08/18 11:49	7782-44-7	
REDOX	**3.19**	mV			1		11/08/18 11:49		
Turbidity	**6.21**	NTU			1		11/08/18 11:49		
Water Level(NGVD)	**23.95**	feet			1		11/08/18 11:49		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/08/18 11:55	11/09/18 12:48	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/08/18 11:55	11/09/18 12:48	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**80.1**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:07	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:07	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:07	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:07	7440-47-3	
Cobalt	**2.3 I**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:07	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:07	7440-50-8	
Iron	**34200**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:07	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:07	7439-92-1	
Nickel	**3.7 I**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:07	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:07	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:07	7440-22-4	
Sodium	**31.7**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:07	7440-23-5	
Vanadium	**12.0**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:07	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:07	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:15	7440-36-0	
Arsenic	**19.8**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:15	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 18:01	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 16:49	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:49	107-13-1	
Benzene	**1.0**	ug/L	1.0	0.10	1		11/14/18 16:49	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 16:49	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B45-2 **Lab ID: 35428777003** Collected: 11/06/18 10:17 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 16:49	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:49	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:49	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 16:49	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 16:49	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 16:49	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 16:49	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 16:49	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:49	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 16:49	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 16:49	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:49	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 16:49	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 16:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 16:49	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 16:49	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 16:49	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 16:49	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 16:49	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/14/18 16:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/14/18 16:49	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		11/14/18 16:49	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/14/18 16:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B45-2 **Lab ID: 35428777003** Collected: 11/06/18 10:17 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**361**	mg/L	5.0	5.0	1		11/13/18 14:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**112**	mg/L	10.0	5.0	2		11/14/18 20:30	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.074**	mg/L	0.050	0.035	1		11/08/18 12:57	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.063**	mg/L	0.050	0.025	1		11/07/18 14:00	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B45-2 DUP **Lab ID: 35428777004** Collected: 11/06/18 10:17 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.23**	Std. Units			1		11/08/18 11:50		
Field Temperature	**24.4**	deg C			1		11/08/18 11:50		
Appearance	**Color:Sulfur, Sheen:None**				1		11/08/18 11:50		
Field Specific Conductance	**587**	umhos/cm			1		11/08/18 11:50		
Oxygen, Dissolved	**1.23**	mg/L			1		11/08/18 11:50	7782-44-7	
REDOX	**3.19**	mV			1		11/08/18 11:50		
Turbidity	**6.21**	NTU			1		11/08/18 11:50		
Water Level(NGVD)	**23.95**	feet			1		11/08/18 11:50		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 13:04	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/08/18 11:55	11/09/18 13:04	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**75.0**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:10	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:10	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:10	7440-43-9	
Chromium	**2.3 I**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:10	7440-47-3	
Cobalt	**2.2 I**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:10	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:10	7440-50-8	
Iron	**32500**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:10	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:10	7439-92-1	
Nickel	**3.9 I**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:10	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:10	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:10	7440-22-4	
Sodium	**29.9**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:10	7440-23-5	
Vanadium	**12.9**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:10	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:10	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:17	7440-36-0	
Arsenic	**18.1**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:17	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 18:03	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 17:14	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:14	107-13-1	
Benzene	**0.98 I**	ug/L	1.0	0.10	1		11/14/18 17:14	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 17:14	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B45-2 DUP **Lab ID: 35428777004** Collected: 11/06/18 10:17 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 17:14	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:14	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:14	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 17:14	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 17:14	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 17:14	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 17:14	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 17:14	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:14	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 17:14	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 17:14	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:14	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 17:14	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 17:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:14	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 17:14	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 17:14	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 17:14	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:14	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/14/18 17:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/14/18 17:14	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		11/14/18 17:14	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/14/18 17:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B45-2 DUP **Lab ID: 35428777004** Collected: 11/06/18 10:17 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**304**	mg/L	5.0	5.0	1		11/13/18 14:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**109**	mg/L	10.0	5.0	2		11/14/18 20:52	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.074**	mg/L	0.050	0.035	1		11/08/18 12:58	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.078**	mg/L	0.050	0.025	1		11/07/18 14:03	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B44 **Lab ID: 35428777005** Collected: 11/06/18 10:50 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**4.86**	Std. Units			1		11/08/18 11:52		
Field Temperature	**24.4**	deg C			1		11/08/18 11:52		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:52		
Field Specific Conductance	**303**	umhos/cm			1		11/08/18 11:52		
Oxygen, Dissolved	**0.87**	mg/L			1		11/08/18 11:52	7782-44-7	
REDOX	**97.8**	mV			1		11/08/18 11:52		
Turbidity	**12.10**	NTU			1		11/08/18 11:52		
Water Level(NGVD)	**23.68**	feet			1		11/08/18 11:52		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/08/18 11:55	11/09/18 13:18	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/08/18 11:55	11/09/18 13:18	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**27.3**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:13	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:13	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:13	7440-43-9	
Chromium	**2.3 I**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:13	7440-47-3	
Cobalt	**1.0 I**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:13	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:13	7440-50-8	
Iron	**13400**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:13	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:13	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:13	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:13	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:13	7440-22-4	
Sodium	**26.7**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:13	7440-23-5	
Vanadium	**6.9 I**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:13	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:13	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:19	7440-36-0	
Arsenic	**1.3**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:19	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 18:05	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 17:38	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:38	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 17:38	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 17:38	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B44 **Lab ID: 35428777005** Collected: 11/06/18 10:50 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 17:38	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:38	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:38	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 17:38	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 17:38	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 17:38	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 17:38	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 17:38	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:38	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 17:38	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 17:38	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:38	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 17:38	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 17:38	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 17:38	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 17:38	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 17:38	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 17:38	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/14/18 17:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/14/18 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		11/14/18 17:38	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/14/18 17:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B44 **Lab ID: 35428777005** Collected: 11/06/18 10:50 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**175**	mg/L	5.0	5.0	1		11/13/18 14:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**70.8**	mg/L	5.0	2.5	1		11/12/18 15:54	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/08/18 13:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.089**	mg/L	0.050	0.025	1		11/07/18 14:05	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B43-1 **Lab ID: 35428777006** Collected: 11/06/18 11:49 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.80**	Std. Units			1		11/08/18 11:58		
Field Temperature	**24.0**	deg C			1		11/08/18 11:58		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 11:58		
Field Specific Conductance	**717**	umhos/cm			1		11/08/18 11:58		
Oxygen, Dissolved	**1.53**	mg/L			1		11/08/18 11:58	7782-44-7	
Turbidity	**13.64**	NTU			1		11/08/18 11:58		
Water Level(NGVD)	**23.19**	feet			1		11/08/18 11:58		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/08/18 11:55	11/09/18 13:33	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/08/18 11:55	11/09/18 13:33	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**165**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:21	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:21	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:21	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:21	7440-47-3	
Cobalt	**1.3 I**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:21	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:21	7440-50-8	
Iron	**29900**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:21	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:21	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:21	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:21	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:21	7440-22-4	
Sodium	**69.6**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:21	7440-23-5	
Vanadium	**2.0 I**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:21	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:21	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:20	7440-36-0	
Arsenic	**3.5**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:20	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 18:07	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 18:03	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:03	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 18:03	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 18:03	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	75-25-2	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B43-1 **Lab ID: 35428777006** Collected: 11/06/18 11:49 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 18:03	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:03	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:03	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 18:03	56-23-5	
Chlorobenzene	**0.60 I**	ug/L	1.0	0.50	1		11/14/18 18:03	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 18:03	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 18:03	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 18:03	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 18:03	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:03	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 18:03	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 18:03	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:03	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 18:03	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:03	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 18:03	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 18:03	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 18:03	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:03	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/14/18 18:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/14/18 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		11/14/18 18:03	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/14/18 18:03	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**484**	mg/L	5.0	5.0	1		11/13/18 14:19		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B43-1 **Lab ID: 35428777006** Collected: 11/06/18 11:49 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**88.8**	mg/L	10.0	5.0	2		11/12/18 17:05	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.8**	mg/L	0.050	0.035	1		11/08/18 13:06	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.034 I**	mg/L	0.050	0.025	1		11/07/18 14:06	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B43-2 **Lab ID: 35428777007** Collected: 11/06/18 12:01 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.23**	Std. Units			1		11/08/18 12:03		
Field Temperature	**24.2**	deg C			1		11/08/18 12:03		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:03		
Field Specific Conductance	**778**	umhos/cm			1		11/08/18 12:03		
Oxygen, Dissolved	**0.71**	mg/L			1		11/08/18 12:03	7782-44-7	
REDOX	**0.82**	mV			1		11/08/18 12:03		
Turbidity	**7.83**	NTU			1		11/08/18 12:03		
Water Level(NGVD)	**23.27**	feet			1		11/08/18 12:03		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 13:48	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/08/18 11:55	11/09/18 13:48	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**46.0**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:24	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:24	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:24	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:24	7440-47-3	
Cobalt	**1.9 I**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:24	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:24	7440-50-8	
Iron	**9560**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:24	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:24	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:24	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:24	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:24	7440-22-4	
Sodium	**37.5**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:24	7440-23-5	
Vanadium	**3.8 I**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:24	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:24	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:22	7440-36-0	
Arsenic	**1.6**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:22	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 18:10	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 18:28	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:28	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 18:28	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 18:28	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B43-2 **Lab ID: 35428777007** Collected: 11/06/18 12:01 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 18:28	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:28	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:28	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 18:28	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 18:28	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 18:28	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 18:28	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 18:28	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:28	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 18:28	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 18:28	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:28	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 18:28	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 18:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:28	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 18:28	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 18:28	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 18:28	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:28	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/14/18 18:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/14/18 18:28	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		11/14/18 18:28	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/14/18 18:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B43-2 **Lab ID: 35428777007** Collected: 11/06/18 12:01 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**521**	mg/L	5.0	5.0	1		11/13/18 14:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**38.7**	mg/L	10.0	5.0	2		11/12/18 17:28	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.063**	mg/L	0.050	0.035	1		11/08/18 13:08	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.035 I**	mg/L	0.050	0.025	1		11/07/18 14:07	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B71 **Lab ID: 35428777008** Collected: 11/06/18 13:12 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.25**	Std. Units			1		11/08/18 12:05		
Field Temperature	**26.0**	deg C			1		11/08/18 12:05		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:05		
Field Specific Conductance	**152**	umhos/cm			1		11/08/18 12:05		
Oxygen, Dissolved	**1.64**	mg/L			1		11/08/18 12:05	7782-44-7	
REDOX	**180.6**	mV			1		11/08/18 12:05		
Turbidity	**33.14**	NTU			1		11/08/18 12:05		
Water Level(NGVD)	**21.46**	feet			1		11/08/18 12:05		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/08/18 11:55	11/09/18 14:03	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/08/18 11:55	11/09/18 14:03	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**20.2**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:27	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:27	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:27	7440-43-9	
Chromium	**3.3 I**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:27	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:27	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:27	7440-50-8	
Iron	**1100**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:27	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:27	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:27	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:27	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:27	7440-22-4	
Sodium	**3.9**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:27	7440-23-5	
Vanadium	**9.7 I**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:27	7440-62-2	
Zinc	**21.8**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:27	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:24	7440-36-0	
Arsenic	**0.95 I**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:24	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 18:12	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 18:52	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:52	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 18:52	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 18:52	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B71 **Lab ID: 35428777008** Collected: 11/06/18 13:12 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 18:52	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:52	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:52	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 18:52	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 18:52	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 18:52	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 18:52	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 18:52	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:52	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 18:52	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 18:52	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:52	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 18:52	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 18:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 18:52	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 18:52	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 18:52	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 18:52	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 18:52	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/14/18 18:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/14/18 18:52	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		11/14/18 18:52	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/14/18 18:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B71 **Lab ID: 35428777008** Collected: 11/06/18 13:12 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**97.0**	mg/L	5.0	5.0	1		11/13/18 14:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.3**	mg/L	5.0	2.5	1		11/12/18 17:52	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/08/18 13:10	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.6**	mg/L	0.050	0.025	1		11/07/18 14:09	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B72 **Lab ID: 35428777009** Collected: 11/06/18 13:55 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.42**	Std. Units			1		11/08/18 12:09		
Field Temperature	**26.6**	deg C			1		11/08/18 12:09		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:09		
Field Specific Conductance	**453**	umhos/cm			1		11/08/18 12:09		
Oxygen, Dissolved	**3.75**	mg/L			1		11/08/18 12:09	7782-44-7	
REDOX	**133.7**	mV			1		11/08/18 12:09		
Turbidity	**40.77**	NTU			1		11/08/18 12:09		
Water Level(NGVD)	**21.16**	feet			1		11/08/18 12:09		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/08/18 11:55	11/09/18 14:33	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/08/18 11:55	11/09/18 14:33	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**28.2**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:30	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:30	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:30	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:30	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:30	7440-48-4	
Copper	**3.6 I**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:30	7440-50-8	
Iron	**1600**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:30	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:30	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:30	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:30	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:30	7440-22-4	
Sodium	**4.0**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:30	7440-23-5	
Vanadium	**11.4**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:30	7440-62-2	
Zinc	**70.7**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:30	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:26	7440-36-0	
Arsenic	**1.0 I**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:26	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 18:18	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 11:26	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:26	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 11:26	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 11:26	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B72 **Lab ID: 35428777009** Collected: 11/06/18 13:55 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 11:26	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:26	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:26	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 11:26	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 11:26	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 11:26	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 11:26	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 11:26	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:26	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 11:26	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 11:26	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:26	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 11:26	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 11:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:26	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 11:26	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 11:26	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 11:26	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:26	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/14/18 11:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/14/18 11:26	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/14/18 11:26	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/14/18 11:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B72 **Lab ID: 35428777009** Collected: 11/06/18 13:55 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**236**	mg/L	5.0	5.0	1		11/13/18 14:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.2 I**	mg/L	5.0	2.5	1		11/12/18 18:15	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/08/18 13:11	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/07/18 09:58	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B73-1 **Lab ID: 35428777010** Collected: 11/06/18 14:58 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.48**	Std. Units			1		11/08/18 12:10		
Field Temperature	**24.9**	deg C			1		11/08/18 12:10		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:10		
Field Specific Conductance	**638**	umhos/cm			1		11/08/18 12:10		
Oxygen, Dissolved	**0.91**	mg/L			1		11/08/18 12:10	7782-44-7	
REDOX	**-97.0**	mV			1		11/08/18 12:10		
Turbidity	**13.80**	NTU			1		11/08/18 12:10		
Water Level(NGVD)	**21.60**	feet			1		11/08/18 12:10		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 14:48	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/08/18 11:55	11/09/18 14:48	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**48.8**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:33	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:33	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:33	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:33	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:33	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:33	7440-50-8	
Iron	**13600**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:33	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:33	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:33	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:33	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:33	7440-22-4	
Sodium	**29.3**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:33	7440-23-5	
Vanadium	**1.1 I**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:33	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:33	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:28	7440-36-0	
Arsenic	**0.53 I**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:28	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 18:20	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 12:13	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:13	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 12:13	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 12:13	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B73-1 **Lab ID: 35428777010** Collected: 11/06/18 14:58 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 12:13	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:13	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:13	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 12:13	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 12:13	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 12:13	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 12:13	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 12:13	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:13	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 12:13	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 12:13	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:13	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 12:13	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 12:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:13	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 12:13	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 12:13	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 12:13	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:13	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/14/18 12:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/14/18 12:13	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/14/18 12:13	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/14/18 12:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B73-1 **Lab ID: 35428777010** Collected: 11/06/18 14:58 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**387**	mg/L	5.0	5.0	1		11/13/18 14:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.9**	mg/L	5.0	2.5	1		11/12/18 18:38	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.10**	mg/L	0.050	0.035	1		11/08/18 13:13	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.088**	mg/L	0.050	0.025	1		11/07/18 09:59	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B73-2 **Lab ID: 35428777011** Collected: 11/06/18 15:25 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.03**	Std. Units			1		11/08/18 12:13		
Field Temperature	**26.0**	deg C			1		11/08/18 12:13		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:13		
Field Specific Conductance	**206**	umhos/cm			1		11/08/18 12:13		
Oxygen, Dissolved	**1.45**	mg/L			1		11/08/18 12:13	7782-44-7	
REDOX	**29.4**	mV			1		11/08/18 12:13		
Turbidity	**10.62**	NTU			1		11/08/18 12:13		
Water Level(NGVD)	**22.00**	feet			1		11/08/18 12:13		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 15:03	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/08/18 11:55	11/09/18 15:03	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**23.7**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:36	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/09/18 00:56	11/09/18 14:36	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/09/18 00:56	11/09/18 14:36	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:36	7440-47-3	
Cobalt	**1.1 I**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:36	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/09/18 00:56	11/09/18 14:36	7440-50-8	
Iron	**1470**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:36	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/09/18 00:56	11/09/18 14:36	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:36	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/09/18 00:56	11/09/18 14:36	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/09/18 00:56	11/09/18 14:36	7440-22-4	
Sodium	**3.4**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:36	7440-23-5	
Vanadium	**4.2 I**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:36	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:36	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:34	7440-36-0	
Arsenic	**4.4**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:34	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/09/18 11:57	11/12/18 18:22	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 12:37	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:37	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 12:37	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 12:37	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B73-2 **Lab ID: 35428777011** Collected: 11/06/18 15:25 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 12:37	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:37	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:37	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 12:37	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 12:37	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 12:37	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 12:37	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 12:37	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:37	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 12:37	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 12:37	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:37	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 12:37	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 12:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 12:37	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 12:37	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 12:37	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 12:37	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 12:37	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/14/18 12:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/14/18 12:37	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/14/18 12:37	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/14/18 12:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: B73-2 **Lab ID: 35428777011** Collected: 11/06/18 15:25 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**126**	mg/L	5.0	5.0	1		11/13/18 14:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.5**	mg/L	5.0	2.5	1		11/12/18 19:02	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/08/18 13:19	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.031 I**	mg/L	0.050	0.025	1		11/07/18 10:00	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: Trip Blank 11/6/18 **Lab ID: 35428777013** Collected: 11/06/18 00:00 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 11:02	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:02	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 11:02	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 11:02	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 11:02	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:02	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:02	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 11:02	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 11:02	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 11:02	74-87-3	
1,2-Dibromo-3-chloropropane	**1.0 U**	ug/L	5.0	1.0	1		11/14/18 11:02	96-12-8	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 11:02	124-48-1	
1,2-Dibromoethane (EDB)	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	106-93-4	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 11:02	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:02	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 11:02	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 11:02	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:02	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 11:02	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 11:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 11:02	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 11:02	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 11:02	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 11:02	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 11:02	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Sample: Trip Blank 11/6/18 **Lab ID: 35428777013** Collected: 11/06/18 00:00 Received: 11/06/18 16:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/14/18 11:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/14/18 11:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/14/18 11:02	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/14/18 11:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 492310 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

METHOD BLANK: 2662167 Matrix: Water
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/12/18 17:42	

LABORATORY CONTROL SAMPLE: 2662168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.2	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662169 2662170

Parameter	Units	35428777001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.1	2.0	106	100	75-125	6	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 492340 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

METHOD BLANK: 2662586 Matrix: Water
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/09/18 13:27	
Beryllium	ug/L	1.6 U	4.0	1.6	11/09/18 13:27	
Cadmium	ug/L	0.33 U	1.0	0.33	11/09/18 13:27	
Chromium	ug/L	1.7 U	5.0	1.7	11/09/18 13:27	
Cobalt	ug/L	0.96 U	10.0	0.96	11/09/18 13:27	
Copper	ug/L	2.6 U	5.0	2.6	11/09/18 13:27	
Iron	ug/L	9.2 U	40.0	9.2	11/09/18 13:27	
Lead	ug/L	4.6 U	10.0	4.6	11/09/18 13:27	
Nickel	ug/L	2.1 U	5.0	2.1	11/09/18 13:27	
Selenium	ug/L	8.5 U	15.0	8.5	11/09/18 13:27	
Silver	ug/L	1.0 U	5.0	1.0	11/09/18 13:27	
Sodium	mg/L	0.27 U	2.0	0.27	11/09/18 13:27	
Vanadium	ug/L	1.0 U	10.0	1.0	11/09/18 13:27	
Zinc	ug/L	11.0 U	20.0	11.0	11/09/18 13:27	

LABORATORY CONTROL SAMPLE: 2662587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	257	103	80-120	
Beryllium	ug/L	25	25.7	103	80-120	
Cadmium	ug/L	25	26.0	104	80-120	
Chromium	ug/L	250	260	104	80-120	
Cobalt	ug/L	250	257	103	80-120	
Copper	ug/L	250	250	100	80-120	
Iron	ug/L	2500	2590	103	80-120	
Lead	ug/L	250	257	103	80-120	
Nickel	ug/L	250	261	104	80-120	
Selenium	ug/L	250	263	105	80-120	
Silver	ug/L	25	26.2	105	80-120	
Sodium	mg/L	12.5	12.7	102	80-120	
Vanadium	ug/L	250	256	102	80-120	
Zinc	ug/L	1250	1310	105	80-120	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662588 2662589

Parameter	Units	35428563001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	3.1 I	250	250	258	258	102	102	75-125	0	20	
Beryllium	ug/L	1.6 U	25	25	25.6	25.8	103	103	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	25.7	25.8	103	103	75-125	0	20	
Chromium	ug/L	1.7 U	250	250	259	259	103	103	75-125	0	20	
Cobalt	ug/L	0.96 U	250	250	254	254	101	102	75-125	0	20	
Copper	ug/L	2.6 U	250	250	250	251	99	100	75-125	0	20	
Iron	ug/L	95.6	2500	2500	2590	2590	100	100	75-125	0	20	
Lead	ug/L	4.6 U	250	250	252	252	101	101	75-125	0	20	
Nickel	ug/L	2.1 U	250	250	255	258	102	103	75-125	1	20	
Selenium	ug/L	8.5 U	250	250	257	262	103	104	75-125	2	20	
Silver	ug/L	1.0 U	25	25	26.2	26.5	105	106	75-125	1	20	
Sodium	mg/L	4.9	12.5	12.5	17.9	17.9	104	104	75-125	0	20	
Vanadium	ug/L	1.8 I	250	250	257	258	102	102	75-125	0	20	
Zinc	ug/L	11.0 U	1250	1250	1290	1290	103	103	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 492339 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

METHOD BLANK: 2662582 Matrix: Water
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/09/18 07:48	
Arsenic	ug/L	0.50 U	1.0	0.50	11/09/18 07:48	
Thallium	ug/L	0.50 U	1.0	0.50	11/09/18 07:48	

LABORATORY CONTROL SAMPLE: 2662583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.3	97	80-120	
Arsenic	ug/L	50	47.6	95	80-120	
Thallium	ug/L	50	46.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662584 2662585

Parameter	Units	35428563002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	48.6	47.4	97	95	75-125	3	20	
Arsenic	ug/L	0.92 I	50	50	48.1	48.1	94	94	75-125	0	20	
Thallium	ug/L	0.50 U	50	50	46.9	46.2	94	92	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 493604 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008

METHOD BLANK: 2669733 Matrix: Water
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/14/18 10:20	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/14/18 10:20	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/14/18 10:20	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/14/18 10:20	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/14/18 10:20	
Acetone	ug/L	10.0 U	20.0	10.0	11/14/18 10:20	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/14/18 10:20	
Benzene	ug/L	0.10 U	1.0	0.10	11/14/18 10:20	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/14/18 10:20	
Bromoform	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/14/18 10:20	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/14/18 10:20	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/14/18 10:20	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/14/18 10:20	
Chloroform	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/14/18 10:20	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/14/18 10:20	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/14/18 10:20	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/14/18 10:20	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/14/18 10:20	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/14/18 10:20	
Styrene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
Toluene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/14/18 10:20	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/14/18 10:20	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

METHOD BLANK: 2669733 Matrix: Water
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/14/18 10:20	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/14/18 10:20	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	11/14/18 10:20	
1,2-Dichloroethane-d4 (S)	%	109	70-130		11/14/18 10:20	
4-Bromofluorobenzene (S)	%	91	70-130		11/14/18 10:20	
Toluene-d8 (S)	%	107	70-130		11/14/18 10:20	

LABORATORY CONTROL SAMPLE: 2669734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,1-Trichloroethane	ug/L	20	19.0	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	68-125	
1,1,2-Trichloroethane	ug/L	20	19.3	97	70-130	
1,1-Dichloroethane	ug/L	20	19.1	96	70-130	
1,1-Dichloroethene	ug/L	20	20.5	103	66-133	
1,2,3-Trichloropropane	ug/L	20	17.6	88	62-127	
1,2-Dichlorobenzene	ug/L	20	18.6	93	70-130	
1,2-Dichloroethane	ug/L	20	17.5	87	70-130	
1,2-Dichloropropane	ug/L	20	18.5	92	70-130	
1,4-Dichlorobenzene	ug/L	20	18.9	94	70-130	
2-Butanone (MEK)	ug/L	40	44.0	110	47-143	
2-Hexanone	ug/L	40	37.2	93	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	35.0	88	57-132	
Acetone	ug/L	40	43.4	109	46-148	
Acrylonitrile	ug/L	200	205	103	60-143	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	17.8	89	70-130	
Bromodichloromethane	ug/L	20	18.0	90	70-130	
Bromoform	ug/L	20	15.0	75	49-126	
Bromomethane	ug/L	20	10.1	51	10-165	
Carbon disulfide	ug/L	20	20.0	100	60-141	
Carbon tetrachloride	ug/L	20	19.2	96	63-126	
Chlorobenzene	ug/L	20	19.3	96	70-130	
Chloroethane	ug/L	20	24.6	123	71-142	
Chloroform	ug/L	20	19.2	96	70-130	
Chloromethane	ug/L	20	20.0	100	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.9	89	70-130	
Dibromochloromethane	ug/L	20	17.7	88	62-118	
Dibromomethane	ug/L	20	17.3	87	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

LABORATORY CONTROL SAMPLE: 2669734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	19.4	97	70-130	
Iodomethane	ug/L	40	22.4	56	10-164	
Methylene Chloride	ug/L	20	19.3	96	65-136	
Styrene	ug/L	20	19.0	95	70-130	
Tetrachloroethene	ug/L	20	19.3	97	64-134	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.4	92	68-127	
trans-1,3-Dichloropropene	ug/L	20	18.1	90	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	15.7	78	42-129	
Trichloroethene	ug/L	20	18.9	94	70-130	
Trichlorofluoromethane	ug/L	20	22.4	112	65-135	
Vinyl acetate	ug/L	20	18.2	91	60-144	
Vinyl chloride	ug/L	20	21.9	110	68-131	
Xylene (Total)	ug/L	60	58.7	98	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2671753

Parameter	Units	35428777003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	19.3	96	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	20.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	19.5	98	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	19.8	99	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	23.1	115	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	17.9	89	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.7	93	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.3	91	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	18.9	95	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	19.2	96	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	41.5	104	47-143	
2-Hexanone	ug/L	5.0 U	40	38.4	96	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	35.7	89	57-132	
Acetone	ug/L	10.0 U	40	44.4	103	46-148	
Acrylonitrile	ug/L	5.0 U	200	199	99	60-143	
Benzene	ug/L	1.0	20	21.1	100	70-130	
Bromochloromethane	ug/L	0.50 U	20	17.7	88	70-130	
Bromodichloromethane	ug/L	0.27 U	20	18.1	91	70-130	
Bromoform	ug/L	0.50 U	20	14.7	74	49-126	
Bromomethane	ug/L	0.50 U	20	6.5	32	10-165	
Carbon disulfide	ug/L	5.0 U	20	22.0	110	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	20.9	105	63-126	
Chlorobenzene	ug/L	0.50 U	20	19.6	98	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

MATRIX SPIKE SAMPLE: 2671753

Parameter	Units	35428777003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	0.50 U	20	25.5	127	71-142	
Chloroform	ug/L	0.50 U	20	19.8	99	70-130	
Chloromethane	ug/L	0.62 U	20	20.3	102	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	19.0	95	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	16.6	83	70-130	
Dibromochloromethane	ug/L	0.26 U	20	17.7	88	62-118	
Dibromomethane	ug/L	0.50 U	20	17.1	85	70-130	
Ethylbenzene	ug/L	0.50 U	20	19.8	99	70-130	
Iodomethane	ug/L	0.50 U	40	6.3 I	15	10-164	
Methylene Chloride	ug/L	2.5 U	20	17.9	89	65-136	
Styrene	ug/L	0.50 U	20	18.5	92	70-130	
Tetrachloroethene	ug/L	0.50 U	20	17.9	89	64-134	
Toluene	ug/L	0.50 U	20	20.4	102	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	19.4	97	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	17.2	86	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	15.0	75	42-129	
Trichloroethene	ug/L	0.50 U	20	19.4	97	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	24.6	123	65-135	
Vinyl acetate	ug/L	1.0 U	20	16.2	81	60-144	
Vinyl chloride	ug/L	0.50 U	20	22.6	113	68-131	
Xylene (Total)	ug/L	1.0 U	60	59.2	99	70-130	
1,2-Dichloroethane-d4 (S)	%				104	70-130	
4-Bromofluorobenzene (S)	%				94	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2671752

Parameter	Units	35428777002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

SAMPLE DUPLICATE: 2671752

Parameter	Units	35428777002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	107	113	6	40	
4-Bromofluorobenzene (S)	%	88	89	1	40	
Toluene-d8 (S)	%	101	109	8	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 493606 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35428777009, 35428777010, 35428777011, 35428777013

METHOD BLANK: 2669737 Matrix: Water
Associated Lab Samples: 35428777009, 35428777010, 35428777011, 35428777013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/14/18 10:38	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/14/18 10:38	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	5.0	1.0	11/14/18 10:38	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
Acetone	ug/L	10.0 U	20.0	10.0	11/14/18 10:38	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
Benzene	ug/L	0.10 U	1.0	0.10	11/14/18 10:38	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/14/18 10:38	
Bromoform	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Bromomethane	ug/L	2.4 I	5.0	0.50	11/14/18 10:38	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/14/18 10:38	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/14/18 10:38	
Chloroform	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/14/18 10:38	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/14/18 10:38	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/14/18 10:38	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/14/18 10:38	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/14/18 10:38	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/14/18 10:38	
Styrene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Toluene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/14/18 10:38	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

METHOD BLANK: 2669737 Matrix: Water
Associated Lab Samples: 35428777009, 35428777010, 35428777011, 35428777013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/14/18 10:38	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/14/18 10:38	
1,2-Dichloroethane-d4 (S)	%	101	70-130		11/14/18 10:38	
4-Bromofluorobenzene (S)	%	100	70-130		11/14/18 10:38	
Toluene-d8 (S)	%	103	70-130		11/14/18 10:38	

LABORATORY CONTROL SAMPLE: 2669738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	113	70-130	
1,1,1-Trichloroethane	ug/L	20	19.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	68-125	
1,1,2-Trichloroethane	ug/L	20	21.2	106	70-130	
1,1-Dichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethene	ug/L	20	16.3	82	66-133	
1,2,3-Trichloropropane	ug/L	20	19.1	95	62-127	
1,2-Dibromo-3-chloropropane	ug/L	20	15.2	76	45-137	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	105	70-130	
1,2-Dichlorobenzene	ug/L	20	20.8	104	70-130	
1,2-Dichloroethane	ug/L	20	18.1	91	70-130	
1,2-Dichloropropane	ug/L	20	18.9	94	70-130	
1,4-Dichlorobenzene	ug/L	20	20.0	100	70-130	
2-Butanone (MEK)	ug/L	40	40.1	100	47-143	
2-Hexanone	ug/L	40	35.8	90	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	37.1	93	57-132	
Acetone	ug/L	40	37.8	94	46-148	
Acrylonitrile	ug/L	200	177	89	60-143	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	20.0	100	70-130	
Bromodichloromethane	ug/L	20	19.5	97	70-130	
Bromoform	ug/L	20	18.6	93	49-126	
Bromomethane	ug/L	20	28.2	141	10-165	
Carbon disulfide	ug/L	20	14.4	72	60-141	
Carbon tetrachloride	ug/L	20	18.7	94	63-126	
Chlorobenzene	ug/L	20	20.0	100	70-130	
Chloroethane	ug/L	20	17.7	89	71-142	
Chloroform	ug/L	20	18.3	92	70-130	
Chloromethane	ug/L	20	13.3	66	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.1	90	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.5	88	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

LABORATORY CONTROL SAMPLE: 2669738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	20	17.7	89	62-118	
Dibromomethane	ug/L	20	21.6	108	70-130	
Ethylbenzene	ug/L	20	19.7	99	70-130	
Iodomethane	ug/L	40	22.5	56	10-164	
Methylene Chloride	ug/L	20	19.6	98	65-136	
Styrene	ug/L	20	19.7	99	70-130	
Tetrachloroethene	ug/L	20	21.6	108	64-134	
Toluene	ug/L	20	19.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.7	89	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	16.1	80	42-129	
Trichloroethene	ug/L	20	20.1	101	70-130	
Trichlorofluoromethane	ug/L	20	16.7	83	65-135	
Vinyl acetate	ug/L	20	19.3	97	60-144	
Vinyl chloride	ug/L	20	17.3	86	68-131	
Xylene (Total)	ug/L	60	62.5	104	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2671751

Parameter	Units	35428777010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	22.3	112	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.9	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.3	91	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	18.1	90	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.0	85	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	17.5	87	62-127	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	20	14.7	73	45-137	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	20	20.6	103	70-130	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.5	92	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	17.5	87	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	17.4	87	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	18.3	92	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	34.3	86	47-143	
2-Hexanone	ug/L	5.0 U	40	31.4	79	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	31.8	79	57-132	
Acetone	ug/L	10.0 U	40	33.7	79	46-148	
Acrylonitrile	ug/L	5.0 U	200	170	85	60-143	
Benzene	ug/L	0.10 U	20	17.9	89	70-130	
Bromochloromethane	ug/L	0.50 U	20	20.4	102	70-130	
Bromodichloromethane	ug/L	0.27 U	20	18.2	91	70-130	
Bromoform	ug/L	0.50 U	20	16.9	84	49-126	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

MATRIX SPIKE SAMPLE: 2671751

Parameter	Units	35428777010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	0.50 U	20	30.5	152	10-165	
Carbon disulfide	ug/L	5.0 U	20	15.3	77	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	19.1	96	63-126	
Chlorobenzene	ug/L	0.50 U	20	18.8	94	70-130	
Chloroethane	ug/L	0.50 U	20	19.2	96	71-142	
Chloroform	ug/L	0.50 U	20	17.9	89	70-130	
Chloromethane	ug/L	0.62 U	20	13.7	68	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	16.7	84	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	14.6	73	70-130	
Dibromochloromethane	ug/L	0.26 U	20	16.7	84	62-118	
Dibromomethane	ug/L	0.50 U	20	19.7	99	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.9	94	70-130	
Iodomethane	ug/L	0.50 U	40	10.2	25	10-164	
Methylene Chloride	ug/L	2.5 U	20	17.5	87	65-136	
Styrene	ug/L	0.50 U	20	17.7	88	70-130	
Tetrachloroethene	ug/L	0.50 U	20	19.0	95	64-134	
Toluene	ug/L	0.50 U	20	18.9	94	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.6	88	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	16.3	81	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	14.1	71	42-129	
Trichloroethene	ug/L	0.50 U	20	19.3	96	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	16.5	83	65-135	
Vinyl acetate	ug/L	1.0 U	20	16.9	85	60-144	
Vinyl chloride	ug/L	0.50 U	20	17.3	87	68-131	
Xylene (Total)	ug/L	1.5 U	60	57.7	96	70-130	
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2671750

Parameter	Units	35428777009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	1.0 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

SAMPLE DUPLICATE: 2671750

Parameter	Units	35428777009 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	98	98	0	40	
4-Bromofluorobenzene (S)	%	98	102	4	40	
Toluene-d8 (S)	%	102	101	1	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 491904 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

METHOD BLANK: 2660027 Matrix: Water
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/09/18 11:19	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/09/18 11:19	

LABORATORY CONTROL SAMPLE: 2660028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.25	98	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.23	94	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661044 2661045

Parameter	Units	35428777001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.50	0.50	114	114	60-140	0	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.46	0.48	105	110	60-140	5	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 492331 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

METHOD BLANK: 2662440 Matrix: Water
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/13/18 14:18	

LABORATORY CONTROL SAMPLE: 2662441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	319	106	90-110	

SAMPLE DUPLICATE: 2662442

Parameter	Units	35428777001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0 U		5	

SAMPLE DUPLICATE: 2662443

Parameter	Units	35428777011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	126	125	1	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 492218 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35428777001, 35428777002

METHOD BLANK: 2661551 Matrix: Water
Associated Lab Samples: 35428777001, 35428777002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/09/18 01:56	

LABORATORY CONTROL SAMPLE: 2661552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661553 2661554

Parameter	Units	35429222005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28.6	250	250	294	299	106	108	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 492938 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

METHOD BLANK: 2666080 Matrix: Water
Associated Lab Samples: 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/12/18 09:39	

LABORATORY CONTROL SAMPLE: 2666081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2666082 2666083

Parameter	Units	35428368001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	22.3	50	50	76.0	75.6	107	107	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2666084 2666085

Parameter	Units	35428777005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	70.8	50	50	125	126	109	110	90-110	0	20	L

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 493731 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35428777003, 35428777004

METHOD BLANK: 2670371 Matrix: Water
Associated Lab Samples: 35428777003, 35428777004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/14/18 18:17	

LABORATORY CONTROL SAMPLE: 2670372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2670533 2670534

Parameter	Units	35428451001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	144			265	254				4	20	L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2670535 2670536

Parameter	Units	92406510001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	547	500	500	1100	1090	111	109	90-110	1	20	L,M6

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 492000 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010

METHOD BLANK: 2660828 Matrix: Water
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/08/18 12:23	

LABORATORY CONTROL SAMPLE: 2660829

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

MATRIX SPIKE SAMPLE: 2660831

Parameter	Units	35428530002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.14	1	1.2	108	90-110	

SAMPLE DUPLICATE: 2660830

Parameter	Units	35428530002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.14	0.14	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 492001 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35428777011

METHOD BLANK: 2660832 Matrix: Water
Associated Lab Samples: 35428777011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/08/18 13:15	

LABORATORY CONTROL SAMPLE: 2660833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE: 2660835

Parameter	Units	35428777011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	1	1.1	107	90-110	

SAMPLE DUPLICATE: 2660834

Parameter	Units	35428777011 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.035 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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

QC Batch: 491634 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

METHOD BLANK: 2658586 Matrix: Water
Associated Lab Samples: 35428777001, 35428777002, 35428777003, 35428777004, 35428777005, 35428777006, 35428777007, 35428777008, 35428777009, 35428777010, 35428777011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/07/18 13:43	

SAMPLE DUPLICATE: 2658588

Parameter	Units	35428720005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.40	0.47	14	20	

SAMPLE DUPLICATE: 2658590

Parameter	Units	35428777008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

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.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

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.
L	Off-scale high. Actual value is known to be greater than value given.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35428777002	**MO5-B**				
35428777003	**B45-2**				
35428777004	**B45-2 DUP**				
35428777005	**B44**				
35428777006	**B43-1**				
35428777007	**B43-2**				
35428777008	**B71**				
35428777009	**B72**				
35428777010	**B73-1**				
35428777011	**B73-2**				
35428777001	**EQ Blank 11/6/18**	EPA 8011	491904	EPA 8011	492311
35428777002	**MO5-B**	EPA 8011	491904	EPA 8011	492311
35428777003	**B45-2**	EPA 8011	491904	EPA 8011	492311
35428777004	**B45-2 DUP**	EPA 8011	491904	EPA 8011	492311
35428777005	**B44**	EPA 8011	491904	EPA 8011	492311
35428777006	**B43-1**	EPA 8011	491904	EPA 8011	492311
35428777007	**B43-2**	EPA 8011	491904	EPA 8011	492311
35428777008	**B71**	EPA 8011	491904	EPA 8011	492311
35428777009	**B72**	EPA 8011	491904	EPA 8011	492311
35428777010	**B73-1**	EPA 8011	491904	EPA 8011	492311
35428777011	**B73-2**	EPA 8011	491904	EPA 8011	492311
35428777001	**EQ Blank 11/6/18**	EPA 3010	492340	EPA 6010	492377
35428777002	**MO5-B**	EPA 3010	492340	EPA 6010	492377
35428777003	**B45-2**	EPA 3010	492340	EPA 6010	492377
35428777004	**B45-2 DUP**	EPA 3010	492340	EPA 6010	492377
35428777005	**B44**	EPA 3010	492340	EPA 6010	492377
35428777006	**B43-1**	EPA 3010	492340	EPA 6010	492377
35428777007	**B43-2**	EPA 3010	492340	EPA 6010	492377
35428777008	**B71**	EPA 3010	492340	EPA 6010	492377
35428777009	**B72**	EPA 3010	492340	EPA 6010	492377
35428777010	**B73-1**	EPA 3010	492340	EPA 6010	492377
35428777011	**B73-2**	EPA 3010	492340	EPA 6010	492377
35428777001	**EQ Blank 11/6/18**	EPA 3010	492339	EPA 6020	492373
35428777002	**MO5-B**	EPA 3010	492339	EPA 6020	492373
35428777003	**B45-2**	EPA 3010	492339	EPA 6020	492373
35428777004	**B45-2 DUP**	EPA 3010	492339	EPA 6020	492373
35428777005	**B44**	EPA 3010	492339	EPA 6020	492373
35428777006	**B43-1**	EPA 3010	492339	EPA 6020	492373
35428777007	**B43-2**	EPA 3010	492339	EPA 6020	492373
35428777008	**B71**	EPA 3010	492339	EPA 6020	492373
35428777009	**B72**	EPA 3010	492339	EPA 6020	492373
35428777010	**B73-1**	EPA 3010	492339	EPA 6020	492373
35428777011	**B73-2**	EPA 3010	492339	EPA 6020	492373
35428777001	**EQ Blank 11/6/18**	EPA 7470	492310	EPA 7470	492583
35428777002	**MO5-B**	EPA 7470	492310	EPA 7470	492583
35428777003	**B45-2**	EPA 7470	492310	EPA 7470	492583
35428777004	**B45-2 DUP**	EPA 7470	492310	EPA 7470	492583

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35428777005	**B44**	EPA 7470	492310	EPA 7470	492583
35428777006	**B43-1**	EPA 7470	492310	EPA 7470	492583
35428777007	**B43-2**	EPA 7470	492310	EPA 7470	492583
35428777008	**B71**	EPA 7470	492310	EPA 7470	492583
35428777009	**B72**	EPA 7470	492310	EPA 7470	492583
35428777010	**B73-1**	EPA 7470	492310	EPA 7470	492583
35428777011	**B73-2**	EPA 7470	492310	EPA 7470	492583
35428777001	**EQ Blank 11/6/18**	EPA 8260	493604		
35428777002	**MO5-B**	EPA 8260	493604		
35428777003	**B45-2**	EPA 8260	493604		
35428777004	**B45-2 DUP**	EPA 8260	493604		
35428777005	**B44**	EPA 8260	493604		
35428777006	**B43-1**	EPA 8260	493604		
35428777007	**B43-2**	EPA 8260	493604		
35428777008	**B71**	EPA 8260	493604		
35428777009	**B72**	EPA 8260	493606		
35428777010	**B73-1**	EPA 8260	493606		
35428777011	**B73-2**	EPA 8260	493606		
35428777013	**Trip Blank 11/6/18**	EPA 8260	493606		
35428777001	**EQ Blank 11/6/18**	SM 2540C	492331		
35428777002	**MO5-B**	SM 2540C	492331		
35428777003	**B45-2**	SM 2540C	492331		
35428777004	**B45-2 DUP**	SM 2540C	492331		
35428777005	**B44**	SM 2540C	492331		
35428777006	**B43-1**	SM 2540C	492331		
35428777007	**B43-2**	SM 2540C	492331		
35428777008	**B71**	SM 2540C	492331		
35428777009	**B72**	SM 2540C	492331		
35428777010	**B73-1**	SM 2540C	492331		
35428777011	**B73-2**	SM 2540C	492331		
35428777001	**EQ Blank 11/6/18**	EPA 300.0	492218		
35428777002	**MO5-B**	EPA 300.0	492218		
35428777003	**B45-2**	EPA 300.0	493731		
35428777004	**B45-2 DUP**	EPA 300.0	493731		
35428777005	**B44**	EPA 300.0	492938		
35428777006	**B43-1**	EPA 300.0	492938		
35428777007	**B43-2**	EPA 300.0	492938		
35428777008	**B71**	EPA 300.0	492938		
35428777009	**B72**	EPA 300.0	492938		
35428777010	**B73-1**	EPA 300.0	492938		
35428777011	**B73-2**	EPA 300.0	492938		
35428777001	**EQ Blank 11/6/18**	EPA 350.1	492000		
35428777002	**MO5-B**	EPA 350.1	492000		
35428777003	**B45-2**	EPA 350.1	492000		
35428777004	**B45-2 DUP**	EPA 350.1	492000		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35428777

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35428777005	**B44**	EPA 350.1	492000		
35428777006	**B43-1**	EPA 350.1	492000		
35428777007	**B43-2**	EPA 350.1	492000		
35428777008	**B71**	EPA 350.1	492000		
35428777009	**B72**	EPA 350.1	492000		
35428777010	**B73-1**	EPA 350.1	492000		
35428777011	**B73-2**	EPA 350.1	492001		
35428777001	**EQ Blank 11/6/18**	EPA 353.2	491634		
35428777002	**MO5-B**	EPA 353.2	491634		
35428777003	**B45-2**	EPA 353.2	491634		
35428777004	**B45-2 DUP**	EPA 353.2	491634		
35428777005	**B44**	EPA 353.2	491634		
35428777006	**B43-1**	EPA 353.2	491634		
35428777007	**B43-2**	EPA 353.2	491634		
35428777008	**B71**	EPA 353.2	491634		
35428777009	**B72**	EPA 353.2	491634		
35428777010	**B73-1**	EPA 353.2	491634		
35428777011	**B73-2**	EPA 353.2	491634		

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

WO# : 35428777

Pace Analytical

35428777

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company:	Volusia County Solid Waste Management
Address:	1990 Tomoka Farms Road
	Port Orange, FL 32128
Email:	jstirk@volusia.org
Phone:	(386)947-2952 Fax:
Requested Due Date:	

Required Project Information:

Report To:	Jennifer Stirk
Copy To:	
Purchase Order #:	
Project Name:	Tomoka LF Semi-annual MWs
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	jeff.baylor@pacelabs.com,
Pace Profile #:	1590, Line 1

Regulatory Agency

State / Location

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS, NO3, CL	ammonia	Metals by 6010/6020/Hg	EDB 8011	8260 VOCs Full List	Trip Blank DO NOT OPEN -	Residual Chlorine (Y/N)
1	EQ					11-6-18	9:15											X	X	X	X	X	X	
2	MOS-B						9:51																		
3	B45-2						10:17																		
4	Dup						10:17																		
5	B44						10:50																		
6	B43-1						11:49																		
7	B43-2						12:01																		
8	B-71						13:12																		
9	B-72						1355																		
10	B73-1						1458																		
11	B73 2						15:25																		
12	Trip Blank						0000																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		11-6-18	1615	Pace	11/6/18	1615

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
10.4	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: BRUCE FOSKEY

SIGNATURE of SAMPLER:

DATE Signed: 11-6-18

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF	SEMI-ANNUAL
WELL NO: EQ	SAMPLE ID: EQ	DATE: 11-6-18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Eo Ster.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:15	SAMPLING ENDED AT: 9:20
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE			TDS, NO3 CL	APP	400
	1	PE	250	HNO3			METALS (Ca/Mg)		
	1	PE	250	H2SO4			AMMONIA		
	3	CG	40	HCL			8260		
	2	CG	40	ICE			4011		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: MOS-B	SAMPLE ID: MO5-B	DATE: 11-6-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 35 feet to 85 feet	STATIC DEPTH TO WATER (feet): 8.15	PURGE PUMP TYPE OR BAILER: P1

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.85 feet – 8.15 feet) X gallons/foot = 1.437 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 9:23	PURGING ENDED AT: 9:51	TOTAL VOLUME PURGED (gallons): 7.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:41	4.50	4.50	.25	8.91	6.02	23.8	1064	2.65	0.56	yellow	sulfur
9:46	1.25	5.75	.25	8.91	6.03	23.7	1060	2.64	0.21	"	"
9:51	1.25	7.00	.25	8.91	6.04	23.7	1060	2.56	0.47	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foste	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:51	SAMPLING ENDED AT: 9:58
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.04	TDS NO3 Cl	APP	400
	1	PE	250	HNO3			Metals Calc/Calc		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	ICE			8011		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200.2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B45-2 / Dup	SAMPLE ID: B45-2 / Dup	DATE: 11-6-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 46 feet	STATIC DEPTH TO WATER (feet): 6.43	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (17.46 feet – 6.43 feet) X 0.16 gallons/foot = 1.7648 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 10:05	PURGING ENDED AT: 10:17	TOTAL VOLUME PURGED (gallons): 3.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or %saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:13	2.00	2.00	.25	~~7.32~~ 7.31	5.22	24.4	616	1.39	7.87	yellow	sulfur
10:15	.50	2.50	.25	7.32	5.23	24.4	597	1.34	6.24	/	/
10:17	.50	3.00	.25	7.32	5.23	24.4	587	1.23	6.21	/	/

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:17	SAMPLING ENDED AT: 10:27
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		5.27	TDS, NO3	APP	400
	1	PE	250	HNO3			METALS 6010/6020	/	/
	1	PE	250	H2SO4			Ammonia	/	/
	3	CG	40	HCl			8260	/	/
	2	CG	40	ICE			6011	/	/

REMARKS: 1.19 2.64 3.19

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County S.L.D MASTE		SITE LOCATION: TOMOKA LF SEMIANNUAL	
WELL NO: B44	SAMPLE ID: B44		DATE: 11-6-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 14 feet to 67 feet	STATIC DEPTH TO WATER (feet): 6.39	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.67 feet − 6.39 feet) X 0.16 gallons/foot = 1.328 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 10:46	PURGING ENDED AT: 10:50	TOTAL VOLUME PURGED (gallons): 2.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:46	1.50	1.50	.25	6.63	4.85	24.3	299	0.94	13.33	pale yellow	sulfur
10:48	.50	2.00	.25	6.63	4.85	24.4	302	0.90	15.62	/	/
10:50	.50	2.50	.25	6.63	4.86	24.4	303	0.87	12.10	/	/

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:50	SAMPLING ENDED AT: 10:56
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		4.96	TDS NO3 CL	APP	400
	1	PE	250	HNO3			METALS 6010/6020	/	/
	1	PE	250	H2SO4			AMMONIA	/	/
	3	CG	40	HCL			8260	/	/
	2	CG	40	ICE			8011	/	/

REMARKS: 108.4 104.9 97.8

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Florida Laboratory	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Sol. Waste	SITE LOCATION: Tomoka LF SEMI ANNUAL	
WELL NO: B-13-1	SAMPLE ID: B-13-1	DATE: 11-6-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 28 feet to 74 feet	STATIC DEPTH TO WATER (feet): 5.94	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (28.84 feet – 5.94 feet) X 0.16 gallons/foot = 3.68 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 11:26	PURGING ENDED AT: 11:49	TOTAL VOLUME PURGED (gallons): 5.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:41	3.75	3.75	.25	6.75	5.76	24.1	603	1.67	12.11	yellow	sulfer
11:45	1.00	4.75	.25	6.75	5.79	24.0	716	1.58	14.86	"	"
11:49	1.00	5.75	.25	6.75	5.80	24.0	717	1.53	13.64	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:49	SAMPLING ENDED AT: 11:55
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE			TDS NO3 Cl	APP	400
	1	PE	250	HNO3			METALS 6010/200.8		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	ICE			8011		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: 46 Mora LF Semi Annual	
WELL NO: B43-2	SAMPLE ID: B43-2	DATE: 11-6-12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 14 feet to 72 feet	STATIC DEPTH TO WATER (feet): 5.02	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (14.72 feet – 5.02 feet) X 0.16 gallons/foot = 1552 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 11:50	PURGING ENDED AT: 12:01	TOTAL VOLUME PURGED (gallons): 2.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:57	1.75	1.75	.25	6.58	6.22	24.2	759	1.10	1826	yellow	sulfur
11:59	.50	2.25	.25	6.59	6.22	24.2	771	0.98	11.58	/	/
12:01	.50	2.75	.25	6.59	6.23	24.2	778	0.71	7.83	/	/

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:01	SAMPLING ENDED AT: 12:06
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.23	TDS SO4 Cl	APP	150
	1	PE	250	HNO3			Metals 6010/6020	/	/
	1	PE	250	H2SO4			Ammonia	/	/
	3	CG	40	HCl			8260	/	/
	2	CG	40	ICE			8011	/	/

REMARKS: 0.90 0.47 0.42

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid Waste	SITE LOCATION:	Tomoka LF Semi Annual
WELL NO:	B-71	SAMPLE ID:	B-71
DATE:	11-6-18		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	21 feet to 35 feet	STATIC DEPTH TO WATER (feet):	9.30	PURGE PUMP TYPE OR BAILER:	P

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (21.33 feet – 9.30 feet) X 0.16 gallons/foot = 1.928 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	11	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	11	PURGING INITIATED AT:	1300	PURGING ENDED AT:	1312	TOTAL VOLUME PURGED (gallons):	3.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1300	2.00	2.00	.25	10.33	5.29	26.0	152	1.41	35.01	yellow	sulfur
1310	0.50	2.50	.25	10.33	5.27	26.0	151	1.55	34.49	/	/
1312	0.50	3.00	.25	10.33	5.25	26.0	152	1.64	3314	/	/

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Bruce Foster	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1312	SAMPLING ENDED AT:	1317
PUMP OR TUBING DEPTH IN WELL (feet):	11	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)		DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	FLD		2.75	TDS M2540C	A11	400
	1	PE	250	HNO3			Metals 6010/6020	/	/
	1	PE	250	H2SO4			Ammonia		
	3	AG	40	HCl			8260		
	2	CG	40	ICE			8011		

REMARKS: 180.7 181.2 180.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: TOMOKA LF SEMI ANNUAL	
WELL NO: B72	SAMPLE ID: B72	DATE: 11-6-15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 21 feet to 50 feet	STATIC DEPTH TO WATER (feet): 7.70	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (21.50 feet – 7.70 feet) X 0.16 gallons/foot = 2.208 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X 1 feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 1340	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 3.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1349	2.25	2.25	.25	8.87	6.42	26.6	453	3.84	39.63	Yellow	Sulfur
1352	.75	3.00	.25	8.87	6.42	26.6	453	3.79	40.17	1	1
1355	.75	3.75	.25	8.87	6.42	26.6	453	3.75	40.77	1	1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1355	SAMPLING ENDED AT: 1411
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.42	TDS, NO3, Cl	APP	400
	1	PE	250	HNO3			Metals 6010/6020	|	|
	1	PE	250	H2SO4			Ammonia	|	|
	3	CG	40	HCL			8260	|	|
	2	CG	40	ICE			BOD		

REMARKS: ORP 131.5 132.2 133.7

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid Waste	SITE LOCATION:	Tomoka LF Semi-Annual	
WELL NO:	B73-1	SAMPLE ID:	B73-1	DATE: 11-6-18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	37 feet to 18 feet	7.62	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (37.18 feet − 7.62 feet) X 0.16 gallons/foot = 4.7296 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
10	10	1428	1454	7.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1440 1448	4.80	4.80	.24	8.44	6.52	25.0	624	0.83	130.4	yellow	sulfur
1453	1.20	6.00	.24	8.44	6.50	25.0	627	0.86	10.80	"	"
1458	1.20	7.20	.24	8.44	6.48	24.9	638	0.81	13.80	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Bruce Foster		1458	1305

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
10	HDPE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.48	TDS SO4 Cl	APP	2400
	1	PE	250	HNO3			METALS 6010 6020	"	"
	1	PE	250	H2SO4			Ammonia	"	"
	3	CG	40	HCl			8260	"	"
	2	CG	40	ICE			8011	"	"

REMARKS:
-94.7 -97.0

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B73-2	SAMPLE ID: B73-2	DATE: 11-6-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 6.96	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.3 feet – 6.96 feet) X gallons/foot = 2.1344 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 1310	PURGING ENDED AT: 1325	TOTAL VOLUME PURGED (gallons): 3.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1319	2.16	2.16	.24	7.99	6.04	26.0	203	1.65	13.51	yellow	Sulfur
1322	0.72	2.88	.24	7.49	6.03	26.0	204	1.59	12.91	1	1
1325	0.72	3.60	.24	7.49	6.03	26.0	206	1.45	10.62	1	1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1325	SAMPLING ENDED AT: 1332
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.03	TDS Cl SO4	APP	<400
	1	PE	250	HNO3			METALS 6010 6020	/	/
	1	PE	250	H2SO4			Ammonia	/	/
	3	CG	40	HCl			8620	/	/
	2	CG	40	ICE			5011	/	/

REMARKS:
ORP 37.0 32.1 29.4

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35428777

Project Manager: PM: JSB **Due Date:** 11/20/18

Client: CLIENT: VOLDPW

Date and Initials of person:
Examining contents: VM
Label: DAE
Deliver:
pH: DM

Thermometer Used: T338 Date: 11/06/18 Time: 1615 Initials: JDJ

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

Cooler #1 Temp.°C	5.6 (Visual)	+0 (Correction Factor)	5.6 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	10.4 (Visual)	+0 (Correction Factor)	10.4 (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	☑Yes ☐No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐No ☐N/A	
Rush TAT requested on COC	☐Yes ☑No ☐N/A	
Sufficient Volume	☑Yes ☐No ☐N/A	
Correct Containers Used	☑Yes ☐No ☐N/A	
Containers Intact	☑Yes ☐No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐No ☐N/A	
All containers needing acid/base preservation have been checked.	☑Yes ☐No ☐N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑Yes ☐No ☐N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐Yes ☑No ☐N/A	
Trip Blank Present:	☑Yes ☐No ☐N/A	2 vials

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

Comments/ Resolution (use back for additional comments): * Trip blank is only for 8260, COC has all test requested. JDJ

Project Manager Review: Date:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 26, 2018

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Dear Ms. Stirk:
Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jeff Baylor

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, Volusia County Solid Waste Man

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35428788001	**SW-11**	Water	11/06/18 10:15	11/06/18 16:10
35428788002	**SW-12**	Water	11/06/18 10:50	11/06/18 16:10
35428788003	**SW-5**	Water	11/06/18 12:00	11/06/18 16:10
35428788004	**SW-2**	Water	11/06/18 12:35	11/06/18 16:10
35428788005	**SW-1**	Water	11/06/18 13:50	11/06/18 16:10
35428788006	**SW-4**	Water	11/06/18 14:30	11/06/18 16:10
35428788007	**SW-3**	Water	11/06/18 15:00	11/06/18 16:10
35428788008	**Trip Blank SW 11/6/18**	Water	11/06/18 00:01	11/06/18 16:10

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35428788001	**SW-11**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	9	PASI-O
		EPA 6020	FDV	9	PASI-O
		SM 9222D	MAJ	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		EPA 1631E	CLG	1	PASI-Tp
		SM 2540C	KLT	1	PASI-O
		SM 2540D	KLT	1	PASI-O
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JMD	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
		EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35428788002	**SW-12**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	9	PASI-O
		EPA 6020	FDV	9	PASI-O
		SM 9222D	MAJ	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		EPA 1631E	CLG	1	PASI-Tp
		SM 2540C	KLT	1	PASI-O
		SM 2540D	KLT	1	PASI-O
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JWH	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
		EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35428788003	**SW-5**	EPA 8011	MMB	2	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	LEC	9	PASI-O
		EPA 6020	FDV	9	PASI-O
		SM 9222D	MAJ	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		EPA 1631E	CLG	1	PASI-Tp
		SM 2540C	KLT	1	PASI-O
		SM 2540D	KLT	1	PASI-O
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JWH	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
		EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35428788004	**SW-2**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	9	PASI-O
		EPA 6020	FDV	9	PASI-O
		SM 9222D	MAJ	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		EPA 1631E	CLG	1	PASI-Tp
		SM 2540C	KLT	1	PASI-O
		SM 2540D	KLT	1	PASI-O
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JWH	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
		EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35428788005	**SW-1**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	9	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	FDV	9	PASI-O
		SM 9222D	MAJ	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		EPA 1631E	CLG	1	PASI-Tp
		SM 2540C	KLT	1	PASI-O
		SM 2540D	KLT	1	PASI-O
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JWH	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
		EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35428788006	**SW-4**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	9	PASI-O
		EPA 6020	FDV	9	PASI-O
		SM 9222D	MAJ	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		EPA 1631E	CLG	1	PASI-Tp
		SM 2540C	KLT	1	PASI-O
		SM 2540D	KLT	1	PASI-O
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JMD	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
		EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35428788007	**SW-3**	EPA 8011	MMB	2	PASI-O
		EPA 6010	LEC	9	PASI-O
		EPA 6020	FDV	9	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 9222D	MAJ	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		EPA 1631E	CLG	1	PASI-Tp
		SM 2540C	KLT	1	PASI-O
		SM 2540D	KLT	1	PASI-O
		SM 5210B	AGS	1	PASI-O
		SM10200	FGF	1	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JMD	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
		EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	1	PASI-O
35428788008	**Trip Blank SW 11/6/18**	EPA 8260	SK1	50	PASI-O

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428788001	**SW-11**					
	Field pH	7.68	Std. Units		11/07/18 08:27	
	Field Temperature	26.8	deg C		11/07/18 08:27	
	Appearance	Color:Yellow, Sheen: None			11/07/18 08:27	
	Field Specific Conductance	517	umhos/cm		11/07/18 08:27	
	Oxygen, Dissolved	2.99	mg/L		11/07/18 08:27	
	Turbidity	28.9	NTU		11/07/18 08:27	
EPA 6010	Barium	36.8	ug/L	10.0	11/09/18 15:02	
EPA 6010	Iron	1360	ug/L	40.0	11/09/18 15:02	
EPA 6010	Nickel	2.4 I	ug/L	5.0	11/09/18 15:02	
EPA 6010	Sodium	26.2	mg/L	2.0	11/09/18 15:02	
EPA 6010	Tot Hardness asCaCO3 (SM 2340B	184	mg/L		11/09/18 15:02	
EPA 6010	Vanadium	2.7 I	ug/L	10.0	11/09/18 15:02	
EPA 6020	Antimony	0.71 I	ug/L	1.0	11/09/18 13:54	
EPA 6020	Arsenic	2.4	ug/L	1.0	11/09/18 13:54	
EPA 6020	Beryllium	0.066 I	ug/L	0.10	11/09/18 13:54	
SM 9222D	Fecal Coliforms	60.0	CFU/100 mL	1.0	11/07/18 16:38	2p,Z
EPA 1631E	Mercury	0.00236	ug/L	0.00050	11/13/18 12:52	V
SM 2540C	Total Dissolved Solids	319	mg/L	5.0	11/13/18 14:19	
SM 2540D	Total Suspended Solids	32.0	mg/L	5.0	11/13/18 06:36	
SM 5210B	BOD, 5 day	3.3	mg/L	2.0	11/12/18 23:01	
SM10200	Chlorophyll a	45.9	ug/L	5.0	11/12/18 13:01	
TKN+NOx Calculation	Total Nitrogen	1.5	mg/L	0.50	11/19/18 17:04	
EPA 350.1	Nitrogen, Ammonia	0.19	mg/L	0.050	11/08/18 13:28	
EPA 351.2	Nitrogen, Kjeldahl, Total	1.5	mg/L	0.50	11/19/18 12:41	
EPA 410.4	Chemical Oxygen Demand	69.3	mg/L	20.0	11/08/18 09:53	
SM 5310B	Total Organic Carbon	16.2	mg/L	1.0	11/14/18 05:34	
35428788002	**SW-12**					
	Field pH	8.50	Std. Units		11/07/18 08:28	
	Field Temperature	26.2	deg C		11/07/18 08:28	
	Appearance	Color:Yellow, Sheen:None			11/07/18 08:28	
	Field Specific Conductance	426.1	umhos/cm		11/07/18 08:28	
	Oxygen, Dissolved	5.21	mg/L		11/07/18 08:28	
	REDOX	50.5	mV		11/07/18 08:28	
	Turbidity	47.0	NTU		11/07/18 08:28	
EPA 6010	Barium	15.6	ug/L	10.0	11/09/18 15:13	
EPA 6010	Iron	80.0	ug/L	40.0	11/09/18 15:13	
EPA 6010	Nickel	2.7 I	ug/L	5.0	11/09/18 15:13	
EPA 6010	Sodium	29.6	mg/L	2.0	11/09/18 15:13	
EPA 6010	Tot Hardness asCaCO3 (SM 2340B	120	mg/L		11/09/18 15:13	
EPA 6010	Vanadium	4.1 I	ug/L	10.0	11/09/18 15:13	
EPA 6020	Antimony	0.80 I	ug/L	1.0	11/09/18 13:56	
EPA 6020	Arsenic	3.2	ug/L	1.0	11/09/18 13:56	
SM 9222D	Fecal Coliforms	14.0	CFU/100 mL	1.0	11/07/18 16:38	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428788002	**SW-12**					
EPA 1631E	Mercury	0.00107	ug/L	0.00050	11/13/18 12:57	V
SM 2540C	Total Dissolved Solids	277	mg/L	5.0	11/13/18 14:19	
SM 2540D	Total Suspended Solids	18.5	mg/L	5.0	11/13/18 06:36	
SM 5210B	BOD, 5 day	4.5	mg/L	2.6	11/12/18 23:06	
SM10200	Chlorophyll a	30.9	ug/L	5.0	11/12/18 13:04	
TKN+NOx Calculation	Total Nitrogen	2.5	mg/L	0.50	11/26/18 14:20	
EPA 351.2	Nitrogen, Kjeldahl, Total	2.4	mg/L	0.50	11/26/18 08:08	
EPA 353.2	Nitrogen, NO2 plus NO3	0.072	mg/L	0.050	11/07/18 10:03	
EPA 353.2	Nitrogen, Nitrate	0.072	mg/L	0.050	11/07/18 10:03	
EPA 410.4	Chemical Oxygen Demand	87.7	mg/L	20.0	11/08/18 09:53	
SM 5310B	Total Organic Carbon	14.1	mg/L	1.0	11/14/18 06:29	
35428788003	**SW-5**					
	Field pH	8.20	Std. Units		11/07/18 08:29	
	Field Temperature	26.1	deg C		11/07/18 08:29	
	Appearance	Color:Yellow, Sheen:None			11/07/18 08:29	
	Field Specific Conductance	488	umhos/cm		11/07/18 08:29	
	Oxygen, Dissolved	5.86	mg/L		11/07/18 08:29	
	REDOX	39.2	mV		11/07/18 08:29	
	Turbidity	4.30	NTU		11/07/18 08:29	
EPA 6010	Barium	47.0	ug/L	10.0	11/09/18 15:16	
EPA 6010	Iron	509	ug/L	40.0	11/09/18 15:16	
EPA 6010	Sodium	29.8	mg/L	2.0	11/09/18 15:16	
EPA 6010	Tot Hardness asCaCO3 (SM 2340B	175	mg/L		11/09/18 15:16	
EPA 6010	Vanadium	1.8 I	ug/L	10.0	11/09/18 15:16	
EPA 6010	Zinc	12.5 I	ug/L	20.0	11/09/18 15:16	
EPA 6020	Arsenic	1.4	ug/L	1.0	11/09/18 14:04	
SM 9222D	Fecal Coliforms	No Result	CFU/100 mL	1.0	11/07/18 16:38	1p,Z
EPA 1631E	Mercury	0.000481 I	ug/L	0.00050	11/13/18 13:02	V
SM 2540C	Total Dissolved Solids	298	mg/L	5.0	11/13/18 14:19	
SM 2540D	Total Suspended Solids	25.5	mg/L	5.0	11/13/18 06:36	
SM 5210B	BOD, 5 day	3.2	mg/L	2.0	11/12/18 23:08	
SM10200	Chlorophyll a	40.4	ug/L	5.0	11/12/18 13:06	
TKN+NOx Calculation	Total Nitrogen	2.4	mg/L	0.50	11/26/18 14:20	
EPA 350.1	Nitrogen, Ammonia	0.29	mg/L	0.050	11/08/18 13:32	
EPA 351.2	Nitrogen, Kjeldahl, Total	2.0	mg/L	0.50	11/26/18 08:09	
EPA 353.2	Nitrogen, NO2 plus NO3	0.39	mg/L	0.050	11/07/18 10:04	
EPA 353.2	Nitrogen, Nitrate	0.39	mg/L	0.050	11/07/18 10:04	
EPA 410.4	Chemical Oxygen Demand	61.5	mg/L	20.0	11/08/18 09:53	
SM 5310B	Total Organic Carbon	17.8	mg/L	1.0	11/14/18 07:11	
FLDEP SOP 10/03/83	Nitrogen, Ammonia (Unionized)	0.031	mg/L	0.020	11/14/18 08:48	
35428788004	**SW-2**					
	Field pH	7.72	Std. Units		11/07/18 08:30	
	Field Temperature	23.5	deg C		11/07/18 08:30	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428788004	**SW-2**					
	Appearance	Color:Yellow, Sheen:None			11/07/18 08:30	
	Field Specific Conductance	210.6	umhos/cm		11/07/18 08:30	
	Oxygen, Dissolved	5.07	mg/L		11/07/18 08:30	
	REDOX	18.8	mV		11/07/18 08:30	
	Turbidity	3.45	NTU		11/07/18 08:30	
EPA 6010	Barium	21.0	ug/L	10.0	11/09/18 14:39	
EPA 6010	Iron	671	ug/L	40.0	11/09/18 14:39	
EPA 6010	Sodium	22.5	mg/L	2.0	11/09/18 14:39	
EPA 6010	Tot Hardness asCaCO3 (SM 2340B	130	mg/L		11/09/18 14:39	
EPA 6020	Arsenic	1.1	ug/L	1.0	11/09/18 08:36	
SM 9222D	Fecal Coliforms	99.0	CFU/100 mL	1.0	11/07/18 16:38	
EPA 1631E	Mercury	0.000541	ug/L	0.00050	11/13/18 13:07	V
SM 2540C	Total Dissolved Solids	230	mg/L	5.0	11/13/18 14:19	
SM 2540D	Total Suspended Solids	9.5	mg/L	5.0	11/13/18 06:36	
SM 5210B	BOD, 5 day	5.1	mg/L	2.0	11/12/18 23:10	
SM10200	Chlorophyll a	34.4	ug/L	5.0	11/12/18 13:08	
TKN+NOx Calculation	Total Nitrogen	2.7	mg/L	0.50	11/26/18 14:20	
EPA 350.1	Nitrogen, Ammonia	1.3	mg/L	0.050	11/09/18 09:47	
EPA 351.2	Nitrogen, Kjeldahl, Total	2.6	mg/L	0.50	11/26/18 08:10	
EPA 353.2	Nitrogen, NO2 plus NO3	0.044 I	mg/L	0.050	11/07/18 10:05	
EPA 353.2	Nitrogen, Nitrate	0.044 I	mg/L	0.050	11/07/18 10:05	
EPA 410.4	Chemical Oxygen Demand	54.2	mg/L	20.0	11/08/18 09:53	
SM 5310B	Total Organic Carbon	13.4	mg/L	1.0	11/14/18 07:25	
FLDEP SOP 10/03/83	Nitrogen, Ammonia (Unionized)	0.042	mg/L	0.020	11/14/18 08:48	
35428788005	**SW-1**					
	Field pH	8.02	Std. Units		11/07/18 08:34	
	Field Temperature	27.3	deg C		11/07/18 08:34	
	Appearance	Color:Yellow, Sheen:None			11/07/18 08:34	
	Field Specific Conductance	227.1	umhos/cm		11/07/18 08:34	
	Oxygen, Dissolved	4.09	mg/L		11/07/18 08:34	
	REDOX	35.3	mV		11/07/18 08:34	
	Turbidity	10.4	NTU		11/07/18 08:34	
EPA 6010	Barium	11.3	ug/L	10.0	11/09/18 14:41	
EPA 6010	Iron	91.2	ug/L	40.0	11/09/18 14:41	
EPA 6010	Sodium	6.6	mg/L	2.0	11/09/18 14:41	
EPA 6010	Tot Hardness asCaCO3 (SM 2340B	98.1	mg/L		11/09/18 14:41	
EPA 6010	Vanadium	1.6 I	ug/L	10.0	11/09/18 14:41	
EPA 6020	Arsenic	0.80 I	ug/L	1.0	11/09/18 08:37	
SM 9222D	Fecal Coliforms	79.0	CFU/100 mL	1.0	11/07/18 16:38	
EPA 1631E	Mercury	0.000984	ug/L	0.00050	11/13/18 13:12	V
SM 2540C	Total Dissolved Solids	127	mg/L	5.0	11/13/18 14:19	
SM 2540D	Total Suspended Solids	20.0	mg/L	5.0	11/13/18 06:36	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428788005	**SW-1**					
SM10200	Chlorophyll a	11.4	ug/L	5.0	11/12/18 13:19	
TKN+NOx Calculation	Total Nitrogen	1.2	mg/L	0.50	11/26/18 14:20	
EPA 351.2	Nitrogen, Kjeldahl, Total	1.2	mg/L	0.50	11/26/18 08:11	
EPA 353.2	Nitrogen, Nitrate	0.025 I	mg/L	0.050	11/07/18 10:06	
EPA 410.4	Chemical Oxygen Demand	24.9	mg/L	20.0	11/08/18 09:53	
SM 5310B	Total Organic Carbon	6.2	mg/L	1.0	11/14/18 07:39	
35428788006	**SW-4**					
	Field pH	7.35	Std. Units		11/07/18 08:35	
	Field Temperature	23.7	deg C		11/07/18 08:35	
	Appearance	Color:Yellow, Sheen:None			11/07/18 08:35	
	Field Specific Conductance	234.3	umhos/cm		11/07/18 08:35	
	Oxygen, Dissolved	1.32	mg/L		11/07/18 08:35	
	REDOX	29.7	mV		11/07/18 08:35	
	Turbidity	5.87	NTU		11/07/18 08:35	
EPA 6010	Barium	26.8	ug/L	10.0	11/09/18 14:44	
EPA 6010	Iron	906	ug/L	40.0	11/09/18 14:44	
EPA 6010	Sodium	23.1	mg/L	2.0	11/09/18 14:44	
EPA 6010	Tot Hardness asCaCO3 (SM 2340B	128	mg/L		11/09/18 14:44	
EPA 6020	Arsenic	1.1	ug/L	1.0	11/09/18 08:39	
SM 9222D	Fecal Coliforms	60.0	CFU/100 mL	1.0	11/07/18 16:38	3p,Z
EPA 1631E	Mercury	0.00125	ug/L	0.00050	11/14/18 12:15	V
SM 2540C	Total Dissolved Solids	241	mg/L	5.0	11/13/18 14:19	
SM 2540D	Total Suspended Solids	9.5	mg/L	5.0	11/13/18 06:36	
SM 5210B	BOD, 5 day	13.6	mg/L	2.6	11/12/18 23:14	
SM10200	Chlorophyll a	28.2	ug/L	5.0	11/12/18 13:21	
TKN+NOx Calculation	Total Nitrogen	6.3	mg/L	0.50	11/19/18 17:07	
EPA 350.1	Nitrogen, Ammonia	5.6	mg/L	0.050	11/09/18 09:54	
EPA 351.2	Nitrogen, Kjeldahl, Total	6.3	mg/L	0.50	11/19/18 12:42	
EPA 365.4	Phosphorus, Total (as P)	1.2	mg/L	0.10	11/19/18 12:42	
EPA 410.4	Chemical Oxygen Demand	53.3	mg/L	20.0	11/08/18 09:53	
SM 5310B	Total Organic Carbon	15.7	mg/L	1.0	11/14/18 07:53	
FLDEP SOP 10/03/83	Nitrogen, Ammonia (Unionized)	0.077	mg/L	0.020	11/14/18 08:48	
35428788007	**SW-3**					
	Field pH	6.59	Std. Units		11/07/18 08:36	
	Field Temperature	24.9	deg C		11/07/18 08:36	
	Appearance	Color:Yellow, Sheen: None			11/07/18 08:36	
	Field Specific Conductance	128.4	umhos/cm		11/07/18 08:36	
	Oxygen, Dissolved	0.89	mg/L		11/07/18 08:36	
	REDOX	34.8	mV		11/07/18 08:36	
	Turbidity	1.41	NTU		11/07/18 08:36	
EPA 6010	Barium	11.2	ug/L	10.0	11/09/18 14:47	
EPA 6010	Iron	221	ug/L	40.0	11/09/18 14:47	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35428788007	**SW-3**					
EPA 6010	Sodium	6.0	mg/L	2.0	11/09/18 14:47	
EPA 6010	Tot Hardness asCaCO3 (SM 2340B	41.5	mg/L		11/09/18 14:47	
EPA 6020	Arsenic	0.57 I	ug/L	1.0	11/09/18 08:41	
SM 9222D	Fecal Coliforms	47.0	CFU/100 mL	1.0	11/07/18 16:38	
EPA 1631E	Mercury	0.00241	ug/L	0.00050	11/14/18 12:20	V
SM 2540C	Total Dissolved Solids	72.0	mg/L	5.0	11/13/18 14:19	
SM 2540D	Total Suspended Solids	12.0	mg/L	5.0	11/13/18 06:36	
SM 5210B	BOD, 5 day	7.8	mg/L	2.0	11/12/18 23:17	
SM10200	Chlorophyll a	14.7	ug/L	5.0	11/12/18 13:23	
TKN+NOx Calculation	Total Nitrogen	0.91	mg/L	0.50	11/19/18 17:07	
EPA 351.2	Nitrogen, Kjeldahl, Total	0.91 I	mg/L	1.0	11/19/18 12:43	
EPA 410.4	Chemical Oxygen Demand	82.4	mg/L	20.0	11/08/18 09:53	
SM 5310B	Total Organic Carbon	23.2	mg/L	1.0	11/14/18 08:07	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-11 **Lab ID: 35428788001** Collected: 11/06/18 10:15 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**7.68**	Std. Units			1		11/07/18 08:27		
Field Temperature	**26.8**	deg C			1		11/07/18 08:27		
Appearance	**Color:Yellow, Sheen: None**				1		11/07/18 08:27		
Field Specific Conductance	**517**	umhos/cm			1		11/07/18 08:27		
Oxygen, Dissolved	**2.99**	mg/L			1		11/07/18 08:27	7782-44-7	
Turbidity	**28.9**	NTU			1		11/07/18 08:27		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/08/18 11:55	11/09/18 15:18	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/08/18 11:55	11/09/18 15:18	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**36.8**	ug/L	10.0	0.84	1	11/09/18 01:53	11/09/18 15:02	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 01:53	11/09/18 15:02	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 01:53	11/09/18 15:02	7440-48-4	
Iron	**1360**	ug/L	40.0	9.2	1	11/09/18 01:53	11/09/18 15:02	7439-89-6	
Nickel	**2.4 I**	ug/L	5.0	2.1	1	11/09/18 01:53	11/09/18 15:02	7440-02-0	
Sodium	**26.2**	mg/L	2.0	0.27	1	11/09/18 01:53	11/09/18 15:02	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**184**	mg/L		0.51	1	11/09/18 01:53	11/09/18 15:02		
Vanadium	**2.7 I**	ug/L	10.0	1.0	1	11/09/18 01:53	11/09/18 15:02	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 01:53	11/09/18 15:02	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.71 I**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 13:54	7440-36-0	
Arsenic	**2.4**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 13:54	7440-38-2	
Beryllium	**0.066 I**	ug/L	0.10	0.050	1	11/09/18 01:56	11/09/18 13:54	7440-41-7	
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 01:56	11/09/18 13:54	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/09/18 01:56	11/09/18 13:54	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 13:54	7439-92-1	
Selenium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 13:54	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 01:56	11/09/18 13:54	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 13:54	7440-28-0	
9222D Fecal Coliform	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**60.0**	CFU/100 mL	1.0	1.0	1	11/06/18 17:40	11/07/18 16:38		2p,Z
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 13:02	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 13:02	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 13:02	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 13:02	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-11 **Lab ID: 35428788001** Collected: 11/06/18 10:15 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 13:02	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 13:02	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 13:02	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 13:02	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 13:02	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 13:02	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 13:02	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 13:02	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 13:02	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 13:02	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 13:02	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 13:02	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 13:02	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 13:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 13:02	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 13:02	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 13:02	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 13:02	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 13:02	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/14/18 13:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/14/18 13:02	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/14/18 13:02	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/14/18 13:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-11 **Lab ID: 35428788001** Collected: 11/06/18 10:15 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.00236**	ug/L	0.00050	0.00025	1	11/12/18 11:47	11/13/18 12:52	7439-97-6	V
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**319**	mg/L	5.0	5.0	1		11/13/18 14:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**32.0**	mg/L	5.0	5.0	1		11/13/18 06:36		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**3.3**	mg/L	2.0	2.0	1	11/07/18 12:15	11/12/18 23:01		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**45.9**	ug/L	5.0	2.2	1	11/07/18 08:11	11/12/18 13:01		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**1.5**	mg/L	0.50	0.086	1		11/19/18 17:04		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.19**	mg/L	0.050	0.035	1		11/08/18 13:28	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**1.5**	mg/L	0.50	0.086	1	11/16/18 10:20	11/19/18 12:41	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.033 U**	mg/L	0.050	0.033	1		11/07/18 10:01		
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/07/18 10:01	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.050 U**	mg/L	0.10	0.050	1	11/16/18 10:20	11/19/18 12:41	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**69.3**	mg/L	20.0	12.5	1	11/07/18 12:15	11/08/18 09:53		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**16.2**	mg/L	1.0	0.50	1		11/14/18 05:34	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.020 U**	mg/L	0.020	0.020	1		11/14/18 08:48		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-12 **Lab ID: 35428788002** Collected: 11/06/18 10:50 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**8.50**	Std. Units			1		11/07/18 08:28		
Field Temperature	**26.2**	deg C			1		11/07/18 08:28		
Appearance	**Color:Yellow, Sheen:None**				1		11/07/18 08:28		
Field Specific Conductance	**426.1**	umhos/cm			1		11/07/18 08:28		
Oxygen, Dissolved	**5.21**	mg/L			1		11/07/18 08:28	7782-44-7	
REDOX	**50.5**	mV			1		11/07/18 08:28		
Turbidity	**47.0**	NTU			1		11/07/18 08:28		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 15:32	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/08/18 11:55	11/09/18 15:32	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**15.6**	ug/L	10.0	0.84	1	11/09/18 01:53	11/09/18 15:13	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 01:53	11/09/18 15:13	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 01:53	11/09/18 15:13	7440-48-4	
Iron	**80.0**	ug/L	40.0	9.2	1	11/09/18 01:53	11/09/18 15:13	7439-89-6	
Nickel	**2.7 I**	ug/L	5.0	2.1	1	11/09/18 01:53	11/09/18 15:13	7440-02-0	
Sodium	**29.6**	mg/L	2.0	0.27	1	11/09/18 01:53	11/09/18 15:13	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**120**	mg/L		0.51	1	11/09/18 01:53	11/09/18 15:13		
Vanadium	**4.1 I**	ug/L	10.0	1.0	1	11/09/18 01:53	11/09/18 15:13	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 01:53	11/09/18 15:13	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.80 I**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 13:56	7440-36-0	
Arsenic	**3.2**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 13:56	7440-38-2	
Beryllium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 01:56	11/09/18 13:56	7440-41-7	J(M1)
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 01:56	11/09/18 13:56	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/09/18 01:56	11/09/18 13:56	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 13:56	7439-92-1	
Selenium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 13:56	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 01:56	11/09/18 13:56	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 13:56	7440-28-0	
9222D Fecal Coliform	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**14.0**	CFU/100 mL	1.0	1.0	1	11/06/18 17:40	11/07/18 16:38		
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 02:17	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:17	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 02:17	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	74-97-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-12 **Lab ID: 35428788002** Collected: 11/06/18 10:50 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 02:17	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 02:17	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:17	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:17	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 02:17	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 02:17	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 02:17	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 02:17	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 02:17	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:17	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 02:17	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 02:17	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:17	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 02:17	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 02:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:17	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 02:17	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 02:17	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 02:17	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:17	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 02:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/15/18 02:17	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/15/18 02:17	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/15/18 02:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-12 **Lab ID: 35428788002** Collected: 11/06/18 10:50 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.00107**	ug/L	0.00050	0.00025	1	11/12/18 11:47	11/13/18 12:57	7439-97-6	V
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**277**	mg/L	5.0	5.0	1		11/13/18 14:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**18.5**	mg/L	5.0	5.0	1		11/13/18 06:36		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**4.5**	mg/L	2.6	2.6	2	11/07/18 12:15	11/12/18 23:06		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**30.9**	ug/L	5.0	2.2	1	11/07/18 08:11	11/12/18 13:04		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**2.5**	mg/L	0.50	0.086	1		11/26/18 14:20		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/08/18 13:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**2.4**	mg/L	0.50	0.086	1	11/24/18 14:40	11/26/18 08:08	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.072**	mg/L	0.050	0.033	1		11/07/18 10:03		
Nitrogen, Nitrate	**0.072**	mg/L	0.050	0.025	1		11/07/18 10:03	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.050 U**	mg/L	0.10	0.050	1	11/15/18 16:03	11/16/18 14:25	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**87.7**	mg/L	20.0	12.5	1	11/07/18 12:15	11/08/18 09:53		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**14.1**	mg/L	1.0	0.50	1		11/14/18 06:29	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.020 U**	mg/L	0.020	0.020	1		11/14/18 08:48		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-5 **Lab ID: 35428788003** Collected: 11/06/18 12:00 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**8.20**	Std. Units			1		11/07/18 08:29		
Field Temperature	**26.1**	deg C			1		11/07/18 08:29		
Appearance	**Color:Yellow, Sheen:None**				1		11/07/18 08:29		
Field Specific Conductance	**488**	umhos/cm			1		11/07/18 08:29		
Oxygen, Dissolved	**5.86**	mg/L			1		11/07/18 08:29	7782-44-7	
REDOX	**39.2**	mV			1		11/07/18 08:29		
Turbidity	**4.30**	NTU			1		11/07/18 08:29		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/08/18 11:55	11/09/18 15:47	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/08/18 11:55	11/09/18 15:47	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**47.0**	ug/L	10.0	0.84	1	11/09/18 01:53	11/09/18 15:16	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 01:53	11/09/18 15:16	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 01:53	11/09/18 15:16	7440-48-4	
Iron	**509**	ug/L	40.0	9.2	1	11/09/18 01:53	11/09/18 15:16	7439-89-6	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 01:53	11/09/18 15:16	7440-02-0	
Sodium	**29.8**	mg/L	2.0	0.27	1	11/09/18 01:53	11/09/18 15:16	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**175**	mg/L		0.51	1	11/09/18 01:53	11/09/18 15:16		
Vanadium	**1.8 I**	ug/L	10.0	1.0	1	11/09/18 01:53	11/09/18 15:16	7440-62-2	
Zinc	**12.5 I**	ug/L	20.0	11.0	1	11/09/18 01:53	11/09/18 15:16	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 14:04	7440-36-0	
Arsenic	**1.4**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 14:04	7440-38-2	
Beryllium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 01:56	11/09/18 14:04	7440-41-7	
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 01:56	11/09/18 14:04	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/09/18 01:56	11/09/18 14:04	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 14:04	7439-92-1	
Selenium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 14:04	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 01:56	11/09/18 14:04	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 01:56	11/09/18 14:04	7440-28-0	
9222D Fecal Coliform	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**No Result**	CFU/100 mL	1.0	1.0	1	11/06/18 17:40	11/07/18 16:38		1p,Z
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 02:41	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:41	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 02:41	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	74-97-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-5 **Lab ID: 35428788003** Collected: 11/06/18 12:00 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 02:41	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 02:41	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:41	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:41	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 02:41	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 02:41	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 02:41	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 02:41	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 02:41	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:41	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 02:41	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 02:41	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:41	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 02:41	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 02:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 02:41	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 02:41	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 02:41	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 02:41	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 02:41	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 02:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/15/18 02:41	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/15/18 02:41	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/15/18 02:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-5 **Lab ID: 35428788003** Collected: 11/06/18 12:00 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.000481 I**	ug/L	0.00050	0.00025	1	11/12/18 11:47	11/13/18 13:02	7439-97-6	V
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**298**	mg/L	5.0	5.0	1		11/13/18 14:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**25.5**	mg/L	5.0	5.0	1		11/13/18 06:36		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**3.2**	mg/L	2.0	2.0	1	11/07/18 12:16	11/12/18 23:08		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**40.4**	ug/L	5.0	2.2	1	11/07/18 09:16	11/12/18 13:06		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**2.4**	mg/L	0.50	0.086	1		11/26/18 14:20		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.29**	mg/L	0.050	0.035	1		11/08/18 13:32	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**2.0**	mg/L	0.50	0.086	1	11/24/18 14:40	11/26/18 08:09	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.39**	mg/L	0.050	0.033	1		11/07/18 10:04		
Nitrogen, Nitrate	**0.39**	mg/L	0.050	0.025	1		11/07/18 10:04	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.050 U**	mg/L	0.10	0.050	1	11/15/18 16:03	11/16/18 14:26	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**61.5**	mg/L	20.0	12.5	1	11/07/18 12:15	11/08/18 09:53		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**17.8**	mg/L	1.0	0.50	1		11/14/18 07:11	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.031**	mg/L	0.020	0.020	1		11/14/18 08:48		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-2 **Lab ID: 35428788004** Collected: 11/06/18 12:35 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**7.72**	Std. Units			1		11/07/18 08:30		
Field Temperature	**23.5**	deg C			1		11/07/18 08:30		
Appearance	**Color:Yellow, Sheen:None**				1		11/07/18 08:30		
Field Specific Conductance	**210.6**	umhos/cm			1		11/07/18 08:30		
Oxygen, Dissolved	**5.07**	mg/L			1		11/07/18 08:30	7782-44-7	
REDOX	**18.8**	mV			1		11/07/18 08:30		
Turbidity	**3.45**	NTU			1		11/07/18 08:30		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 16:02	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/08/18 11:55	11/09/18 16:02	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**21.0**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:39	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:39	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:39	7440-48-4	
Iron	**671**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:39	7439-89-6	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:39	7440-02-0	
Sodium	**22.5**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:39	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**130**	mg/L		0.51	1	11/09/18 00:56	11/09/18 14:39		
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:39	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:39	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:36	7440-36-0	
Arsenic	**1.1**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:36	7440-38-2	
Beryllium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:36	7440-41-7	
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:36	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/09/18 00:58	11/09/18 08:36	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:36	7439-92-1	
Selenium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:36	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:36	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:36	7440-28-0	
9222D Fecal Coliform	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**99.0**	CFU/100 mL	1.0	1.0	1	11/06/18 17:40	11/07/18 16:38		
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 03:05	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:05	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 03:05	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	74-97-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-2 **Lab ID: 35428788004** Collected: 11/06/18 12:35 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 03:05	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 03:05	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:05	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:05	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 03:05	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 03:05	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 03:05	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 03:05	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 03:05	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:05	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 03:05	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 03:05	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:05	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 03:05	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 03:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:05	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 03:05	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 03:05	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 03:05	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:05	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 03:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/15/18 03:05	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/15/18 03:05	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/15/18 03:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-2 **Lab ID: 35428788004** Collected: 11/06/18 12:35 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.000541**	ug/L	0.00050	0.00025	1	11/12/18 11:47	11/13/18 13:07	7439-97-6	V
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**230**	mg/L	5.0	5.0	1		11/13/18 14:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**9.5**	mg/L	5.0	5.0	1		11/13/18 06:36		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**5.1**	mg/L	2.0	2.0	1	11/07/18 15:10	11/12/18 23:10		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**34.4**	ug/L	5.0	2.2	1	11/07/18 09:16	11/12/18 13:08		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**2.7**	mg/L	0.50	0.086	1		11/26/18 14:20		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.3**	mg/L	0.050	0.035	1		11/09/18 09:47	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**2.6**	mg/L	0.50	0.086	1	11/24/18 14:40	11/26/18 08:10	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.044 I**	mg/L	0.050	0.033	1		11/07/18 10:05		
Nitrogen, Nitrate	**0.044 I**	mg/L	0.050	0.025	1		11/07/18 10:05	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.050 U**	mg/L	0.10	0.050	1	11/15/18 16:03	11/16/18 14:27	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**54.2**	mg/L	20.0	12.5	1	11/07/18 12:15	11/08/18 09:53		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**13.4**	mg/L	1.0	0.50	1		11/14/18 07:25	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.042**	mg/L	0.020	0.020	1		11/14/18 08:48		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-1 **Lab ID: 35428788005** Collected: 11/06/18 13:50 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**8.02**	Std. Units			1		11/07/18 08:34		
Field Temperature	**27.3**	deg C			1		11/07/18 08:34		
Appearance	**Color:Yellow, Sheen:None**				1		11/07/18 08:34		
Field Specific Conductance	**227.1**	umhos/cm			1		11/07/18 08:34		
Oxygen, Dissolved	**4.09**	mg/L			1		11/07/18 08:34	7782-44-7	
REDOX	**35.3**	mV			1		11/07/18 08:34		
Turbidity	**10.4**	NTU			1		11/07/18 08:34		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/08/18 11:55	11/09/18 16:17	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/08/18 11:55	11/09/18 16:17	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**11.3**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:41	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:41	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:41	7440-48-4	
Iron	**91.2**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:41	7439-89-6	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:41	7440-02-0	
Sodium	**6.6**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:41	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**98.1**	mg/L		0.51	1	11/09/18 00:56	11/09/18 14:41		
Vanadium	**1.6 I**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:41	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:41	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:37	7440-36-0	
Arsenic	**0.80 I**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:37	7440-38-2	
Beryllium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:37	7440-41-7	
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:37	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/09/18 00:58	11/09/18 08:37	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:37	7439-92-1	
Selenium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:37	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:37	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:37	7440-28-0	
9222D Fecal Coliform	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**79.0**	CFU/100 mL	1.0	1.0	1	11/06/18 17:40	11/07/18 16:38		
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 03:28	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:28	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 03:28	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	74-97-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-1 **Lab ID: 35428788005** Collected: 11/06/18 13:50 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 03:28	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 03:28	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:28	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:28	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 03:28	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 03:28	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 03:28	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 03:28	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 03:28	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:28	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 03:28	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 03:28	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:28	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 03:28	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 03:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:28	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 03:28	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 03:28	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 03:28	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:28	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 03:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/15/18 03:28	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/15/18 03:28	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/15/18 03:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-1 **Lab ID: 35428788005** Collected: 11/06/18 13:50 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.000984**	ug/L	0.00050	0.00025	1	11/12/18 11:47	11/13/18 13:12	7439-97-6	V
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**127**	mg/L	5.0	5.0	1		11/13/18 14:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**20.0**	mg/L	5.0	5.0	1		11/13/18 06:36		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**2.0 U**	mg/L	2.0	2.0	1	11/07/18 15:10	11/12/18 23:12		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**11.4**	ug/L	5.0	2.2	1	11/07/18 09:16	11/12/18 13:19		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**1.2**	mg/L	0.50	0.086	1		11/26/18 14:20		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/09/18 09:53	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**1.2**	mg/L	0.50	0.086	1	11/24/18 14:40	11/26/18 08:11	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.033 U**	mg/L	0.050	0.033	1		11/07/18 10:06		
Nitrogen, Nitrate	**0.025 I**	mg/L	0.050	0.025	1		11/07/18 10:06	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.050 U**	mg/L	0.10	0.050	1	11/15/18 16:03	11/16/18 14:31	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**24.9**	mg/L	20.0	12.5	1	11/07/18 12:15	11/08/18 09:53		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**6.2**	mg/L	1.0	0.50	1		11/14/18 07:39	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.020 U**	mg/L	0.020	0.020	1		11/14/18 08:48		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-4 **Lab ID: 35428788006** Collected: 11/06/18 14:30 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**7.35**	Std. Units			1		11/07/18 08:35		
Field Temperature	**23.7**	deg C			1		11/07/18 08:35		
Appearance	**Color:Yellow, Sheen:None**				1		11/07/18 08:35		
Field Specific Conductance	**234.3**	umhos/cm			1		11/07/18 08:35		
Oxygen, Dissolved	**1.32**	mg/L			1		11/07/18 08:35	7782-44-7	
REDOX	**29.7**	mV			1		11/07/18 08:35		
Turbidity	**5.87**	NTU			1		11/07/18 08:35		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 16:31	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/08/18 11:55	11/09/18 16:31	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**26.8**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:44	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:44	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:44	7440-48-4	
Iron	**906**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:44	7439-89-6	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:44	7440-02-0	
Sodium	**23.1**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:44	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**128**	mg/L		0.51	1	11/09/18 00:56	11/09/18 14:44		
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:44	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:44	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:39	7440-36-0	
Arsenic	**1.1**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:39	7440-38-2	
Beryllium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:39	7440-41-7	
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:39	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/09/18 00:58	11/09/18 08:39	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:39	7439-92-1	
Selenium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:39	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:39	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:39	7440-28-0	
9222D Fecal Coliform	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**60.0**	CFU/100 mL	1.0	1.0	1	11/06/18 17:40	11/07/18 16:38		3p,Z
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 03:52	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:52	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 03:52	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	74-97-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-4 **Lab ID: 35428788006** Collected: 11/06/18 14:30 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 03:52	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 03:52	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:52	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:52	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 03:52	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 03:52	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 03:52	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 03:52	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 03:52	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:52	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 03:52	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 03:52	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:52	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 03:52	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 03:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 03:52	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 03:52	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 03:52	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 03:52	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 03:52	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 03:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/15/18 03:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/15/18 03:52	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/15/18 03:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-4 **Lab ID: 35428788006** Collected: 11/06/18 14:30 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.00125**	ug/L	0.00050	0.00025	1	11/12/18 11:47	11/14/18 12:15	7439-97-6	V
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**241**	mg/L	5.0	5.0	1		11/13/18 14:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**9.5**	mg/L	5.0	5.0	1		11/13/18 06:36		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**13.6**	mg/L	2.6	2.6	2	11/07/18 15:11	11/12/18 23:14		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**28.2**	ug/L	5.0	2.2	1	11/07/18 09:16	11/12/18 13:21		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**6.3**	mg/L	0.50	0.086	1		11/19/18 17:07		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**5.6**	mg/L	0.050	0.035	1		11/09/18 09:54	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**6.3**	mg/L	0.50	0.086	1	11/16/18 10:20	11/19/18 12:42	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.033 U**	mg/L	0.050	0.033	1		11/07/18 10:08		
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/07/18 10:08	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**1.2**	mg/L	0.10	0.050	1	11/16/18 10:20	11/19/18 12:42	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**53.3**	mg/L	20.0	12.5	1	11/07/18 12:15	11/08/18 09:53		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**15.7**	mg/L	1.0	0.50	1		11/14/18 07:53	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.077**	mg/L	0.020	0.020	1		11/14/18 08:48		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-3 **Lab ID: 35428788007** Collected: 11/06/18 15:00 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.59**	Std. Units			1		11/07/18 08:36		
Field Temperature	**24.9**	deg C			1		11/07/18 08:36		
Appearance	**Color:Yellow, Sheen: None**				1		11/07/18 08:36		
Field Specific Conductance	**128.4**	umhos/cm			1		11/07/18 08:36		
Oxygen, Dissolved	**0.89**	mg/L			1		11/07/18 08:36	7782-44-7	
REDOX	**34.8**	mV			1		11/07/18 08:36		
Turbidity	**1.41**	NTU			1		11/07/18 08:36		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/08/18 11:55	11/09/18 16:46	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/08/18 11:55	11/09/18 16:46	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**11.2**	ug/L	10.0	0.84	1	11/09/18 00:56	11/09/18 14:47	7440-39-3	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/09/18 00:56	11/09/18 14:47	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/09/18 00:56	11/09/18 14:47	7440-48-4	
Iron	**221**	ug/L	40.0	9.2	1	11/09/18 00:56	11/09/18 14:47	7439-89-6	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/09/18 00:56	11/09/18 14:47	7440-02-0	
Sodium	**6.0**	mg/L	2.0	0.27	1	11/09/18 00:56	11/09/18 14:47	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	**41.5**	mg/L		0.51	1	11/09/18 00:56	11/09/18 14:47		
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/09/18 00:56	11/09/18 14:47	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/09/18 00:56	11/09/18 14:47	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:41	7440-36-0	
Arsenic	**0.57 I**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:41	7440-38-2	
Beryllium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:41	7440-41-7	
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:41	7440-43-9	
Copper	**0.93 U**	ug/L	1.0	0.93	1	11/09/18 00:58	11/09/18 08:41	7440-50-8	
Lead	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:41	7439-92-1	
Selenium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:41	7782-49-2	
Silver	**0.050 U**	ug/L	0.10	0.050	1	11/09/18 00:58	11/09/18 08:41	7440-22-4	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/09/18 00:58	11/09/18 08:41	7440-28-0	
9222D Fecal Coliform	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	**47.0**	CFU/100 mL	1.0	1.0	1	11/06/18 17:40	11/07/18 16:38		
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 04:16	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 04:16	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 04:16	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	74-97-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-3 **Lab ID: 35428788007** Collected: 11/06/18 15:00 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 04:16	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 04:16	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 04:16	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 04:16	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 04:16	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 04:16	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 04:16	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 04:16	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 04:16	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 04:16	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 04:16	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 04:16	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 04:16	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 04:16	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 04:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 04:16	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 04:16	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 04:16	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 04:16	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 04:16	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 04:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/15/18 04:16	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/15/18 04:16	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/15/18 04:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: SW-3 **Lab ID: 35428788007** Collected: 11/06/18 15:00 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.00241**	ug/L	0.00050	0.00025	1	11/12/18 11:47	11/14/18 12:20	7439-97-6	V
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**72.0**	mg/L	5.0	5.0	1		11/13/18 14:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**12.0**	mg/L	5.0	5.0	1		11/13/18 06:36		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**7.8**	mg/L	2.0	2.0	1	11/07/18 15:12	11/12/18 23:17		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	**14.7**	ug/L	5.0	2.2	1	11/07/18 09:16	11/12/18 13:23		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.91**	mg/L	0.50	0.086	1		11/19/18 17:07		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/09/18 10:06	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.91 I**	mg/L	1.0	0.17	1	11/16/18 10:20	11/19/18 12:43	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.033 U**	mg/L	0.050	0.033	1		11/07/18 12:07		
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/07/18 12:07	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.10 U**	mg/L	0.20	0.10	1	11/16/18 10:20	11/19/18 12:43	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	**82.4**	mg/L	20.0	12.5	1	11/07/18 12:15	11/08/18 09:53		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**23.2**	mg/L	1.0	0.50	1		11/14/18 08:07	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonia (Unionized)	**0.020 U**	mg/L	0.020	0.020	1		11/14/18 08:48		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: Trip Blank SW 11/6/18 **Lab ID: 35428788008** Collected: 11/06/18 00:01 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/14/18 23:06	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 23:06	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/14/18 23:06	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/14/18 23:06	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/14/18 23:06	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 23:06	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 23:06	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/14/18 23:06	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 23:06	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/14/18 23:06	74-87-3	
1,2-Dibromo-3-chloropropane	**1.0 U**	ug/L	5.0	1.0	1		11/14/18 23:06	96-12-8	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/14/18 23:06	124-48-1	
1,2-Dibromoethane (EDB)	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	106-93-4	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/14/18 23:06	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 23:06	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 23:06	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/14/18 23:06	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 23:06	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/14/18 23:06	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/14/18 23:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/14/18 23:06	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/14/18 23:06	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/14/18 23:06	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/14/18 23:06	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/14/18 23:06	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Sample: Trip Blank SW 11/6/18 **Lab ID: 35428788008** Collected: 11/06/18 00:01 Received: 11/06/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/14/18 23:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/14/18 23:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/14/18 23:06	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/14/18 23:06	2037-26-5	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 493705 Analysis Method: SM 9222D
QC Batch Method: SM 9222D Analysis Description: 9222D MBIO Fecal Coliform
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2670259 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	1.0 U	1.0	1.0	11/07/18 16:38	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 492340 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2662586 Matrix: Water
Associated Lab Samples: 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/09/18 13:27	
Chromium	ug/L	1.7 U	5.0	1.7	11/09/18 13:27	
Cobalt	ug/L	0.96 U	10.0	0.96	11/09/18 13:27	
Iron	ug/L	9.2 U	40.0	9.2	11/09/18 13:27	
Nickel	ug/L	2.1 U	5.0	2.1	11/09/18 13:27	
Sodium	mg/L	0.27 U	2.0	0.27	11/09/18 13:27	
Tot Hardness asCaCO3 (SM 2340B	mg/L	0.51 U		0.51	11/09/18 13:27	
Vanadium	ug/L	1.0 U	10.0	1.0	11/09/18 13:27	
Zinc	ug/L	11.0 U	20.0	11.0	11/09/18 13:27	

LABORATORY CONTROL SAMPLE: 2662587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	257	103	80-120	
Chromium	ug/L	250	260	104	80-120	
Cobalt	ug/L	250	257	103	80-120	
Iron	ug/L	2500	2590	103	80-120	
Nickel	ug/L	250	261	104	80-120	
Sodium	mg/L	12.5	12.7	102	80-120	
Tot Hardness asCaCO3 (SM 2340B	mg/L	82.7	86.6	105	80-120	
Vanadium	ug/L	250	256	102	80-120	
Zinc	ug/L	1250	1310	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662588 2662589

Parameter	Units	35428563001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	3.1 I	250	250	258	258	102	102	75-125	0	20	
Chromium	ug/L	1.7 U	250	250	259	259	103	103	75-125	0	20	
Cobalt	ug/L	0.96 U	250	250	254	254	101	102	75-125	0	20	
Iron	ug/L	95.6	2500	2500	2590	2590	100	100	75-125	0	20	
Nickel	ug/L	2.1 U	250	250	255	258	102	103	75-125	1	20	
Sodium	mg/L	4.9	12.5	12.5	17.9	17.9	104	104	75-125	0	20	
Tot Hardness asCaCO3 (SM 2340B	mg/L	111000 ug/L	82.7	82.7	198	197	105	104	75-125	0	20	
Vanadium	ug/L	1.8 I	250	250	257	258	102	102	75-125	0	20	
Zinc	ug/L	11.0 U	1250	1250	1290	1290	103	103	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 492344 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35428788001, 35428788002, 35428788003

METHOD BLANK: 2662599 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/09/18 14:56	
Chromium	ug/L	1.7 U	5.0	1.7	11/09/18 14:56	
Cobalt	ug/L	0.96 U	10.0	0.96	11/09/18 14:56	
Iron	ug/L	9.2 U	40.0	9.2	11/09/18 14:56	
Nickel	ug/L	2.1 U	5.0	2.1	11/09/18 14:56	
Sodium	mg/L	0.27 U	2.0	0.27	11/09/18 14:56	
Tot Hardness asCaCO3 (SM 2340B	mg/L	0.51 U		0.51	11/09/18 14:56	
Vanadium	ug/L	1.0 U	10.0	1.0	11/09/18 14:56	
Zinc	ug/L	11.0 U	20.0	11.0	11/09/18 14:56	

LABORATORY CONTROL SAMPLE: 2662600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	254	101	80-120	
Chromium	ug/L	250	255	102	80-120	
Cobalt	ug/L	250	253	101	80-120	
Iron	ug/L	2500	2550	102	80-120	
Nickel	ug/L	250	257	103	80-120	
Sodium	mg/L	12.5	12.6	101	80-120	
Tot Hardness asCaCO3 (SM 2340B	mg/L	82.7	85.2	103	80-120	
Vanadium	ug/L	250	251	100	80-120	
Zinc	ug/L	1250	1290	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662601 2662602

Parameter	Units	35428788001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	36.8	250	250	296	295	104	103	75-125	0	20	
Chromium	ug/L	1.7 U	250	250	263	261	105	104	75-125	1	20	
Cobalt	ug/L	0.96 U	250	250	262	260	104	104	75-125	0	20	
Iron	ug/L	1360	2500	2500	4300	4080	118	109	75-125	5	20	
Nickel	ug/L	2.4 I	250	250	264	263	105	104	75-125	0	20	
Sodium	mg/L	26.2	12.5	12.5	39.5	39.4	107	105	75-125	0	20	
Tot Hardness asCaCO3 (SM 2340B	mg/L	184	82.7	82.7	271	269	105	104	75-125	0	20	
Vanadium	ug/L	2.7 I	250	250	264	261	104	103	75-125	1	20	
Zinc	ug/L	11.0 U	1250	1250	1300	1290	104	103	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 492339 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2662582 Matrix: Water
Associated Lab Samples: 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/09/18 07:48	
Arsenic	ug/L	0.50 U	1.0	0.50	11/09/18 07:48	
Beryllium	ug/L	0.050 U	0.10	0.050	11/09/18 07:48	
Cadmium	ug/L	0.050 U	0.10	0.050	11/09/18 07:48	
Copper	ug/L	0.93 U	1.0	0.93	11/09/18 07:48	
Lead	ug/L	0.50 U	1.0	0.50	11/09/18 07:48	
Selenium	ug/L	0.50 U	1.0	0.50	11/09/18 07:48	
Silver	ug/L	0.050 U	0.10	0.050	11/09/18 07:48	
Thallium	ug/L	0.50 U	1.0	0.50	11/09/18 07:48	

LABORATORY CONTROL SAMPLE: 2662583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.3	97	80-120	
Arsenic	ug/L	50	47.6	95	80-120	
Beryllium	ug/L	5	5.4	108	80-120	
Cadmium	ug/L	5	4.9	98	80-120	
Copper	ug/L	50	50.2	100	80-120	
Lead	ug/L	50	50.5	101	80-120	
Selenium	ug/L	50	50.9	102	80-120	
Silver	ug/L	5	4.9	98	80-120	
Thallium	ug/L	50	46.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662584 2662585

Parameter	Units	35428563002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	48.6	47.4	97	95	75-125	3	20	
Arsenic	ug/L	0.92 I	50	50	48.1	48.1	94	94	75-125	0	20	
Beryllium	ug/L	0.050 U	5	5	8.5	7.9	171	157	75-125	8	20	J(IS), J(M1)
Cadmium	ug/L	0.074 I	5	5	5.0	5.0	99	98	75-125	0	20	
Copper	ug/L	16.5	50	50	67.3	65.6	101	98	75-125	3	20	
Lead	ug/L	2.8	50	50	53.1	52.5	101	100	75-125	1	20	
Selenium	ug/L	0.50 U	50	50	50.4	49.0	100	98	75-125	3	20	
Silver	ug/L	0.050 U	5	5	4.9	4.9	97	97	75-125	0	20	
Thallium	ug/L	0.50 U	50	50	46.9	46.2	94	92	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 492343 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35428788001, 35428788002, 35428788003

METHOD BLANK: 2662595 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/09/18 13:50	
Arsenic	ug/L	0.50 U	1.0	0.50	11/09/18 13:50	
Beryllium	ug/L	0.050 U	0.10	0.050	11/09/18 13:50	
Cadmium	ug/L	0.050 U	0.10	0.050	11/09/18 13:50	
Copper	ug/L	0.93 U	1.0	0.93	11/09/18 13:50	
Lead	ug/L	0.50 U	1.0	0.50	11/09/18 13:50	
Selenium	ug/L	0.50 U	1.0	0.50	11/09/18 13:50	
Silver	ug/L	0.050 U	0.10	0.050	11/09/18 13:50	
Thallium	ug/L	0.50 U	1.0	0.50	11/09/18 13:50	

LABORATORY CONTROL SAMPLE: 2662596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	47.9	96	80-120	
Arsenic	ug/L	50	48.8	98	80-120	
Beryllium	ug/L	5	5.6	111	80-120	
Cadmium	ug/L	5	4.9	97	80-120	
Copper	ug/L	50	49.6	99	80-120	
Lead	ug/L	50	47.6	95	80-120	
Selenium	ug/L	50	47.7	95	80-120	
Silver	ug/L	5	4.9	98	80-120	
Thallium	ug/L	50	47.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662597 2662598

Parameter	Units	35428788002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.80 I	50	50	48.4	49.3	95	97	75-125	2	20	
Arsenic	ug/L	3.2	50	50	52.0	52.6	97	99	75-125	1	20	
Beryllium	ug/L	0.050 U	5	5	6.3	6.7	127	133	75-125	5	20	J(M1)
Cadmium	ug/L	0.050 U	5	5	4.8	5.0	97	99	75-125	3	20	
Copper	ug/L	0.93 U	50	50	48.9	49.5	97	99	75-125	1	20	
Lead	ug/L	0.50 U	50	50	46.5	47.4	92	94	75-125	2	20	
Selenium	ug/L	0.50 U	50	50	48.3	49.9	96	99	75-125	3	20	
Silver	ug/L	0.050 U	5	5	4.7	4.8	95	97	75-125	2	20	
Thallium	ug/L	0.50 U	50	50	47.5	48.1	95	96	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 493606 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35428788001

METHOD BLANK: 2669737 Matrix: Water
Associated Lab Samples: 35428788001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/14/18 10:38	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/14/18 10:38	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
Acetone	ug/L	10.0 U	20.0	10.0	11/14/18 10:38	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
Benzene	ug/L	0.10 U	1.0	0.10	11/14/18 10:38	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/14/18 10:38	
Bromoform	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Bromomethane	ug/L	2.4 I	5.0	0.50	11/14/18 10:38	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/14/18 10:38	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/14/18 10:38	
Chloroform	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/14/18 10:38	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/14/18 10:38	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/14/18 10:38	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/14/18 10:38	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/14/18 10:38	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/14/18 10:38	
Styrene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Toluene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/14/18 10:38	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/14/18 10:38	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

METHOD BLANK: 2669737 Matrix: Water
Associated Lab Samples: 35428788001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/14/18 10:38	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/14/18 10:38	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/14/18 10:38	
1,2-Dichloroethane-d4 (S)	%	101	70-130		11/14/18 10:38	
4-Bromofluorobenzene (S)	%	100	70-130		11/14/18 10:38	
Toluene-d8 (S)	%	103	70-130		11/14/18 10:38	

LABORATORY CONTROL SAMPLE: 2669738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.7	113	70-130	
1,1,1-Trichloroethane	ug/L	20	19.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	68-125	
1,1,2-Trichloroethane	ug/L	20	21.2	106	70-130	
1,1-Dichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethene	ug/L	20	16.3	82	66-133	
1,2,3-Trichloropropane	ug/L	20	19.1	95	62-127	
1,2-Dichlorobenzene	ug/L	20	20.8	104	70-130	
1,2-Dichloroethane	ug/L	20	18.1	91	70-130	
1,2-Dichloropropane	ug/L	20	18.9	94	70-130	
1,4-Dichlorobenzene	ug/L	20	20.0	100	70-130	
2-Butanone (MEK)	ug/L	40	40.1	100	47-143	
2-Hexanone	ug/L	40	35.8	90	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	37.1	93	57-132	
Acetone	ug/L	40	37.8	94	46-148	
Acrylonitrile	ug/L	200	177	89	60-143	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	20.0	100	70-130	
Bromodichloromethane	ug/L	20	19.5	97	70-130	
Bromoform	ug/L	20	18.6	93	49-126	
Bromomethane	ug/L	20	28.2	141	10-165	
Carbon disulfide	ug/L	20	14.4	72	60-141	
Carbon tetrachloride	ug/L	20	18.7	94	63-126	
Chlorobenzene	ug/L	20	20.0	100	70-130	
Chloroethane	ug/L	20	17.7	89	71-142	
Chloroform	ug/L	20	18.3	92	70-130	
Chloromethane	ug/L	20	13.3	66	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.1	90	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.5	88	70-130	
Dibromochloromethane	ug/L	20	17.7	89	62-118	
Dibromomethane	ug/L	20	21.6	108	70-130	
Ethylbenzene	ug/L	20	19.7	99	70-130	
Iodomethane	ug/L	40	22.5	56	10-164	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

LABORATORY CONTROL SAMPLE: 2669738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	19.6	98	65-136	
Styrene	ug/L	20	19.7	99	70-130	
Tetrachloroethene	ug/L	20	21.6	108	64-134	
Toluene	ug/L	20	19.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.7	89	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	16.1	80	42-129	
Trichloroethene	ug/L	20	20.1	101	70-130	
Trichlorofluoromethane	ug/L	20	16.7	83	65-135	
Vinyl acetate	ug/L	20	19.3	97	60-144	
Vinyl chloride	ug/L	20	17.3	86	68-131	
Xylene (Total)	ug/L	60	62.5	104	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2671751

Parameter	Units	35428777010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	22.3	112	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.9	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.3	91	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	18.1	90	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.0	85	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	17.5	87	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.5	92	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	17.5	87	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	17.4	87	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	18.3	92	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	34.3	86	47-143	
2-Hexanone	ug/L	5.0 U	40	31.4	79	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	31.8	79	57-132	
Acetone	ug/L	10.0 U	40	33.7	79	46-148	
Acrylonitrile	ug/L	5.0 U	200	170	85	60-143	
Benzene	ug/L	0.10 U	20	17.9	89	70-130	
Bromochloromethane	ug/L	0.50 U	20	20.4	102	70-130	
Bromodichloromethane	ug/L	0.27 U	20	18.2	91	70-130	
Bromoform	ug/L	0.50 U	20	16.9	84	49-126	
Bromomethane	ug/L	0.50 U	20	30.5	152	10-165	
Carbon disulfide	ug/L	5.0 U	20	15.3	77	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	19.1	96	63-126	
Chlorobenzene	ug/L	0.50 U	20	18.8	94	70-130	
Chloroethane	ug/L	0.50 U	20	19.2	96	71-142	
Chloroform	ug/L	0.50 U	20	17.9	89	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

MATRIX SPIKE SAMPLE: 2671751

Parameter	Units	35428777010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	13.7	68	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	16.7	84	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	14.6	73	70-130	
Dibromochloromethane	ug/L	0.26 U	20	16.7	84	62-118	
Dibromomethane	ug/L	0.50 U	20	19.7	99	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.9	94	70-130	
Iodomethane	ug/L	0.50 U	40	10.2	25	10-164	
Methylene Chloride	ug/L	2.5 U	20	17.5	87	65-136	
Styrene	ug/L	0.50 U	20	17.7	88	70-130	
Tetrachloroethene	ug/L	0.50 U	20	19.0	95	64-134	
Toluene	ug/L	0.50 U	20	18.9	94	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.6	88	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	16.3	81	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	14.1	71	42-129	
Trichloroethene	ug/L	0.50 U	20	19.3	96	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	16.5	83	65-135	
Vinyl acetate	ug/L	1.0 U	20	16.9	85	60-144	
Vinyl chloride	ug/L	0.50 U	20	17.3	87	68-131	
Xylene (Total)	ug/L	1.5 U	60	57.7	96	70-130	
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2671750

Parameter	Units	35428777009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

SAMPLE DUPLICATE: 2671750

Parameter	Units	35428777009 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	98	98	0	40	
4-Bromofluorobenzene (S)	%	98	102	4	40	
Toluene-d8 (S)	%	102	101	1	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 493867 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007, 35428788008

METHOD BLANK: 2671608 Matrix: Water
Associated Lab Samples: 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007, 35428788008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/14/18 22:15	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/14/18 22:15	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	5.0	1.0	11/14/18 22:15	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/14/18 22:15	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/14/18 22:15	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/14/18 22:15	
Acetone	ug/L	10.0 U	20.0	10.0	11/14/18 22:15	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/14/18 22:15	
Benzene	ug/L	0.10 U	1.0	0.10	11/14/18 22:15	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/14/18 22:15	
Bromoform	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/14/18 22:15	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/14/18 22:15	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/14/18 22:15	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/14/18 22:15	
Chloroform	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/14/18 22:15	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/14/18 22:15	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/14/18 22:15	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/14/18 22:15	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/14/18 22:15	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/14/18 22:15	
Styrene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
Toluene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/14/18 22:15	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

METHOD BLANK: 2671608 Matrix: Water
Associated Lab Samples: 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007, 35428788008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/14/18 22:15	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/14/18 22:15	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/14/18 22:15	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/14/18 22:15	
1,2-Dichloroethane-d4 (S)	%	98	70-130		11/14/18 22:15	
4-Bromofluorobenzene (S)	%	102	70-130		11/14/18 22:15	
Toluene-d8 (S)	%	102	70-130		11/14/18 22:15	

LABORATORY CONTROL SAMPLE: 2671609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.5	112	70-130	
1,1,1-Trichloroethane	ug/L	20	19.5	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	68-125	
1,1,2-Trichloroethane	ug/L	20	21.4	107	70-130	
1,1-Dichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethene	ug/L	20	15.8	79	66-133	
1,2,3-Trichloropropane	ug/L	20	18.0	90	62-127	
1,2-Dibromo-3-chloropropane	ug/L	20	14.9	74	45-137	
1,2-Dibromoethane (EDB)	ug/L	20	21.4	107	70-130	
1,2-Dichlorobenzene	ug/L	20	20.2	101	70-130	
1,2-Dichloroethane	ug/L	20	18.2	91	70-130	
1,2-Dichloropropane	ug/L	20	19.0	95	70-130	
1,4-Dichlorobenzene	ug/L	20	19.4	97	70-130	
2-Butanone (MEK)	ug/L	40	34.2	85	47-143	
2-Hexanone	ug/L	40	32.6	81	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	34.9	87	57-132	
Acetone	ug/L	40	35.7	89	46-148	
Acrylonitrile	ug/L	200	135	68	60-143	
Benzene	ug/L	20	19.1	96	70-130	
Bromochloromethane	ug/L	20	19.9	100	70-130	
Bromodichloromethane	ug/L	20	19.2	96	70-130	
Bromoform	ug/L	20	18.1	90	49-126	
Bromomethane	ug/L	20	28.1	141	10-165	
Carbon disulfide	ug/L	20	14.6	73	60-141	
Carbon tetrachloride	ug/L	20	19.8	99	63-126	
Chlorobenzene	ug/L	20	20.2	101	70-130	
Chloroethane	ug/L	20	19.5	97	71-142	
Chloroform	ug/L	20	18.7	93	70-130	
Chloromethane	ug/L	20	14.4	72	40-140	
cis-1,2-Dichloroethene	ug/L	20	17.6	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.1	86	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

LABORATORY CONTROL SAMPLE: 2671609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	20	18.1	90	62-118	
Dibromomethane	ug/L	20	20.8	104	70-130	
Ethylbenzene	ug/L	20	19.4	97	70-130	
Iodomethane	ug/L	40	23.1	58	10-164	
Methylene Chloride	ug/L	20	18.3	92	65-136	
Styrene	ug/L	20	19.1	95	70-130	
Tetrachloroethene	ug/L	20	22.2	111	64-134	
Toluene	ug/L	20	19.5	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.8	89	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.2	86	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	15.2	76	42-129	
Trichloroethene	ug/L	20	19.9	99	70-130	
Trichlorofluoromethane	ug/L	20	17.8	89	65-135	
Vinyl acetate	ug/L	20	19.8	99	60-144	
Vinyl chloride	ug/L	20	18.5	93	68-131	
Xylene (Total)	ug/L	60	61.0	102	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 2671915

Parameter	Units	35431088002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	21.6	108	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.7	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.0	90	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.7	88	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	16.5	83	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	17.7	89	62-127	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	20	13.7	69	45-137	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.2	91	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	17.0	85	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.4	82	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	17.9	90	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	33.2	83	47-143	
2-Hexanone	ug/L	5.0 U	40	29.7	74	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	29.6	74	57-132	
Acetone	ug/L	10.0 U	40	32.0	80	46-148	
Acrylonitrile	ug/L	5.0 U	200	161	80	60-143	
Benzene	ug/L	0.10 U	20	17.7	89	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.7	99	70-130	
Bromodichloromethane	ug/L	0.27 U	20	17.1	86	70-130	
Bromoform	ug/L	0.50 U	20	16.9	84	49-126	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

MATRIX SPIKE SAMPLE: 2671915

Parameter	Units	35431088002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	0.50 U	20	25.5	127	10-165	
Carbon disulfide	ug/L	5.0 U	20	14.8	74	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	18.0	90	63-126	
Chlorobenzene	ug/L	0.50 U	20	18.8	94	70-130	
Chloroethane	ug/L	0.50 U	20	20.3	102	71-142	
Chloroform	ug/L	0.50 U	20	17.8	89	70-130	
Chloromethane	ug/L	0.62 U	20	13.7	69	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	16.3	81	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	14.1	70	70-130	
Dibromochloromethane	ug/L	0.26 U	20	15.9	80	62-118	
Dibromomethane	ug/L	0.50 U	20	19.8	99	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.6	93	70-130	
Iodomethane	ug/L	0.50 U	40	10.2	25	10-164	
Methylene Chloride	ug/L	2.5 U	20	16.9	84	65-136	
Styrene	ug/L	0.50 U	20	17.7	88	70-130	
Tetrachloroethene	ug/L	0.50 U	20	19.8	99	64-134	
Toluene	ug/L	0.50 U	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.7	89	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	15.8	79	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	13.9	70	42-129	
Trichloroethene	ug/L	0.50 U	20	18.7	94	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	16.7	83	65-135	
Vinyl acetate	ug/L	1.0 U	20	16.6	83	60-144	
Vinyl chloride	ug/L	0.50 U	20	17.2	86	68-131	
Xylene (Total)	ug/L	1.5 U	60	56.9	95	70-130	
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				108	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2671914

Parameter	Units	35431088001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	1.0 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

SAMPLE DUPLICATE: 2671914

Parameter	Units	35431088001 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.60 I	0.61 I		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	101	100	2	40	
4-Bromofluorobenzene (S)	%	98	99	1	40	
Toluene-d8 (S)	%	104	102	2	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 491904 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2660027 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/09/18 11:19	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/09/18 11:19	

LABORATORY CONTROL SAMPLE: 2660028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.25	98	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.23	94	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661044 2661045

Parameter	Units	35428777001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.50	0.50	114	114	60-140	0	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.46	0.48	105	110	60-140	5	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 492944 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury,Low Level
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2666145 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.00025 U	0.00050	0.00025	11/13/18 11:57	

METHOD BLANK: 2666146 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.00025 U	0.00050	0.00025	11/13/18 12:02	

METHOD BLANK: 2666147 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.00025 U	0.00050	0.00025	11/13/18 12:07	

METHOD BLANK: 2666148 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.00025 U	0.00050	0.00025	11/13/18 12:12	

METHOD BLANK: 2666149 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.000422 I	0.00050	0.00025	11/13/18 12:17	

LABORATORY CONTROL SAMPLE: 2666150

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	.005	0.00547	109	77-123	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2666151 2666152

Parameter	Units	35429876001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.00400	.02	.02	0.0182	0.0226	71	93	71-125	21	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2666153 2666154

Parameter	Units	35428788001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.00236	.01	.01	0.00963	0.0112	73	89	71-125	15	24	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 492331 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2662440 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/13/18 14:18	

LABORATORY CONTROL SAMPLE: 2662441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	319	106	90-110	

SAMPLE DUPLICATE: 2662442

Parameter	Units	35428777001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0 U		5	

SAMPLE DUPLICATE: 2662443

Parameter	Units	35428777011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	126	125	1	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 493117 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2667387 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0	5.0	11/13/18 06:36	

LABORATORY CONTROL SAMPLE: 2667388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	98.0	98	90-110	

SAMPLE DUPLICATE: 2667389

Parameter	Units	35428730003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	108	104	4	5	

SAMPLE DUPLICATE: 2667390

Parameter	Units	35428746001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0 U	5.0 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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 491644 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2658624 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0	2.0	11/12/18 22:44	

LABORATORY CONTROL SAMPLE: 2658626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	199	210	106	85-115	

SAMPLE DUPLICATE: 2658627

Parameter	Units	35428788001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	3.3	3.5	7	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 491626 Analysis Method: SM10200
QC Batch Method: SM10200 Analysis Description: Chlorophyll & Pheophytin
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2658571 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorophyll a	ug/L	2.2 U	5.0	2.2	11/12/18 12:49	

LABORATORY CONTROL SAMPLE: 2658572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorophyll a	ug/L	10	10.6	106	85-115	

SAMPLE DUPLICATE: 2658573

Parameter	Units	35428366003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorophyll a	ug/L	7.3 mg/m3	8.5	15	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 492001 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35428788001, 35428788002, 35428788003

METHOD BLANK: 2660832 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/08/18 13:15	

LABORATORY CONTROL SAMPLE: 2660833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE: 2660835

Parameter	Units	35428777011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	1	1.1	107	90-110	

SAMPLE DUPLICATE: 2660834

Parameter	Units	35428777011 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.035 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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 492365 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35428788004, 35428788005, 35428788006

METHOD BLANK: 2662710 Matrix: Water
Associated Lab Samples: 35428788004, 35428788005, 35428788006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/09/18 08:54	

LABORATORY CONTROL SAMPLE: 2662711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE: 2662713

Parameter	Units	35429605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.56	1	1.6	100	90-110	

SAMPLE DUPLICATE: 2662712

Parameter	Units	35429605001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.56	0.56	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 492366
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35428788007

METHOD BLANK: 2662714 Matrix: Water
Associated Lab Samples: 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/09/18 10:02	

LABORATORY CONTROL SAMPLE: 2662715

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

MATRIX SPIKE SAMPLE: 2662717

Parameter	Units	35428788007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	1	1.1	106	90-110	

SAMPLE DUPLICATE: 2662716

Parameter	Units	35428788007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.035 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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 494306 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 35428788001, 35428788006, 35428788007

METHOD BLANK: 2674029 Matrix: Water
Associated Lab Samples: 35428788001, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	0.086	11/19/18 12:30	

LABORATORY CONTROL SAMPLE: 2674030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	19.1	95	90-110	

MATRIX SPIKE SAMPLE: 2674034

Parameter	Units	35430404001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	49.5	40	93.4	110	90-110	J(M1),L

MATRIX SPIKE SAMPLE: 2674032

Parameter	Units	35428467001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.59	20	19.6	95	90-110	

SAMPLE DUPLICATE: 2674031

Parameter	Units	35428467001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.59	0.66	11	20	

SAMPLE DUPLICATE: 2674033

Parameter	Units	35430404001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	49.5	53.3	7	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 495946 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 35428788002, 35428788003, 35428788004, 35428788005

METHOD BLANK: 2682775 Matrix: Water
Associated Lab Samples: 35428788002, 35428788003, 35428788004, 35428788005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	0.086	11/26/18 08:06	

LABORATORY CONTROL SAMPLE: 2682776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	19.0	95	90-110	

MATRIX SPIKE SAMPLE: 2682778

Parameter	Units	35431516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.1	20	21.1	95	90-110	

MATRIX SPIKE SAMPLE: 2682780

Parameter	Units	35431698002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10.4	20	30.6	101	90-110	

SAMPLE DUPLICATE: 2682777

Parameter	Units	35431516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.1	2.1	3	20	

SAMPLE DUPLICATE: 2682779

Parameter	Units	35431698002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10.4	10.7	3	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 491634 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006

METHOD BLANK: 2658586 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/07/18 13:43	
Nitrogen, NO2 plus NO3	mg/L	0.033 U	0.050	0.033	11/07/18 13:43	

LABORATORY CONTROL SAMPLE: 2658587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 2658589

Parameter	Units	35428720005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.47	2	2.3	93	90-110	

MATRIX SPIKE SAMPLE: 2658591

Parameter	Units	35428777008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1.6	2	3.4	90	90-110	

SAMPLE DUPLICATE: 2658588

Parameter	Units	35428720005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.40	0.47	14	20	
Nitrogen, NO2 plus NO3	mg/L	0.47	0.47	1	20	

SAMPLE DUPLICATE: 2658590

Parameter	Units	35428777008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	0	20	
Nitrogen, NO2 plus NO3	mg/L	1.6	1.6	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 491635
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35428788007

METHOD BLANK: 2658592 Matrix: Water
Associated Lab Samples: 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/07/18 10:09	
Nitrogen, NO2 plus NO3	mg/L	0.033 U	0.050	0.033	11/07/18 10:09	

LABORATORY CONTROL SAMPLE: 2658593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 2658595

Parameter	Units	35428788007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.033 U	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 2658597

Parameter	Units	35428798007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.33	2	2.5	109	90-110	

SAMPLE DUPLICATE: 2658594

Parameter	Units	35428788007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	
Nitrogen, NO2 plus NO3	mg/L	0.033 U	0.033 U		20	

SAMPLE DUPLICATE: 2658596

Parameter	Units	35428798007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.33	0.31	4	20	
Nitrogen, NO2 plus NO3	mg/L	0.33	0.31	4	20	

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

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 494085 Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4 Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 35428788002, 35428788003, 35428788004, 35428788005

METHOD BLANK: 2672387 Matrix: Water
Associated Lab Samples: 35428788002, 35428788003, 35428788004, 35428788005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.10	0.050	11/16/18 14:46	

LABORATORY CONTROL SAMPLE: 2672388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	3.9	97	90-110	

MATRIX SPIKE SAMPLE: 2672390

Parameter	Units	35428257001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	4	3.8	95	80-120	

MATRIX SPIKE SAMPLE: 2672392

Parameter	Units	35429956006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	7.0	4	11.0	100	80-120	L

SAMPLE DUPLICATE: 2672389

Parameter	Units	35428257001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.050 U		20	

SAMPLE DUPLICATE: 2672391

Parameter	Units	35429956006 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	7.0	7.1	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 494308 Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4 Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 35428788001, 35428788006, 35428788007

METHOD BLANK: 2674035 Matrix: Water
Associated Lab Samples: 35428788001, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.10	0.050	11/19/18 12:19	

LABORATORY CONTROL SAMPLE: 2674036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	3.9	97	90-110	

MATRIX SPIKE SAMPLE: 2674038

Parameter	Units	35428467001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	4	3.9	98	80-120	

MATRIX SPIKE SAMPLE: 2674040

Parameter	Units	35430404001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	5.4	8	13.8	106	80-120	

SAMPLE DUPLICATE: 2674037

Parameter	Units	35428467001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.050 U		20	

SAMPLE DUPLICATE: 2674039

Parameter	Units	35430404001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	5.4	5.9	10	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 491700 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2658876 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	12.5 U	20.0	12.5	11/08/18 09:53	

LABORATORY CONTROL SAMPLE: 2658877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	494	507	103	90-110	

MATRIX SPIKE SAMPLE: 2658879

Parameter	Units	35427995001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	39.1	494	562	106	90-110	

MATRIX SPIKE SAMPLE: 2658881

Parameter	Units	35428788001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	69.3	494	548	97	90-110	

SAMPLE DUPLICATE: 2658878

Parameter	Units	35427995001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	39.1	42.9	9	20	

SAMPLE DUPLICATE: 2658880

Parameter	Units	35428788001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	69.3	68.4	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

QC Batch: 493151 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

METHOD BLANK: 2667491 Matrix: Water
Associated Lab Samples: 35428788001, 35428788002, 35428788003, 35428788004, 35428788005, 35428788006, 35428788007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	11/14/18 01:46	

LABORATORY CONTROL SAMPLE: 2667492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	19.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2667493 2667494

Parameter	Units	35430353001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.9	20	20	23.4	23.4	97	97	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2667495 2667496

Parameter	Units	35428788002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	14.1	20	20	34.0	34.1	99	100	80-120	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

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.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach
PASI-Tp	Pace Analytical Services - Tampa

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	Target organisms are confluent.
2p	Target organisms are too numerous to count
3p	Target organisms are too numerous to count.
J(IS)	Estimated Value. The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Z	Too many colonies were present (TNTC); the numeric value represents the estimated colony counts from the highest dilution used in this test.

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35428788001	**SW-11**				
35428788002	**SW-12**				
35428788003	**SW-5**				
35428788004	**SW-2**				
35428788005	**SW-1**				
35428788006	**SW-4**				
35428788007	**SW-3**				
35428788001	**SW-11**	EPA 8011	491904	EPA 8011	492311
35428788002	**SW-12**	EPA 8011	491904	EPA 8011	492311
35428788003	**SW-5**	EPA 8011	491904	EPA 8011	492311
35428788004	**SW-2**	EPA 8011	491904	EPA 8011	492311
35428788005	**SW-1**	EPA 8011	491904	EPA 8011	492311
35428788006	**SW-4**	EPA 8011	491904	EPA 8011	492311
35428788007	**SW-3**	EPA 8011	491904	EPA 8011	492311
35428788001	**SW-11**	EPA 3010	492344	EPA 6010	492385
35428788002	**SW-12**	EPA 3010	492344	EPA 6010	492385
35428788003	**SW-5**	EPA 3010	492344	EPA 6010	492385
35428788004	**SW-2**	EPA 3010	492340	EPA 6010	492377
35428788005	**SW-1**	EPA 3010	492340	EPA 6010	492377
35428788006	**SW-4**	EPA 3010	492340	EPA 6010	492377
35428788007	**SW-3**	EPA 3010	492340	EPA 6010	492377
35428788001	**SW-11**	EPA 3010	492343	EPA 6020	492384
35428788002	**SW-12**	EPA 3010	492343	EPA 6020	492384
35428788003	**SW-5**	EPA 3010	492343	EPA 6020	492384
35428788004	**SW-2**	EPA 3010	492339	EPA 6020	492373
35428788005	**SW-1**	EPA 3010	492339	EPA 6020	492373
35428788006	**SW-4**	EPA 3010	492339	EPA 6020	492373
35428788007	**SW-3**	EPA 3010	492339	EPA 6020	492373
35428788001	**SW-11**	SM 9222D	493705	SM 9222D	493707
35428788002	**SW-12**	SM 9222D	493705	SM 9222D	493707
35428788003	**SW-5**	SM 9222D	493705	SM 9222D	493707
35428788004	**SW-2**	SM 9222D	493705	SM 9222D	493707
35428788005	**SW-1**	SM 9222D	493705	SM 9222D	493707
35428788006	**SW-4**	SM 9222D	493705	SM 9222D	493707
35428788007	**SW-3**	SM 9222D	493705	SM 9222D	493707
35428788001	**SW-11**	EPA 8260	493606		
35428788002	**SW-12**	EPA 8260	493867		
35428788003	**SW-5**	EPA 8260	493867		
35428788004	**SW-2**	EPA 8260	493867		
35428788005	**SW-1**	EPA 8260	493867		
35428788006	**SW-4**	EPA 8260	493867		
35428788007	**SW-3**	EPA 8260	493867		
35428788008	**Trip Blank SW 11/6/18**	EPA 8260	493867		
35428788001	**SW-11**	EPA 1631E	492944	EPA 1631E	493734

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35428788002	**SW-12**	EPA 1631E	492944	EPA 1631E	493734
35428788003	**SW-5**	EPA 1631E	492944	EPA 1631E	493734
35428788004	**SW-2**	EPA 1631E	492944	EPA 1631E	493734
35428788005	**SW-1**	EPA 1631E	492944	EPA 1631E	493734
35428788006	**SW-4**	EPA 1631E	492944	EPA 1631E	493734
35428788007	**SW-3**	EPA 1631E	492944	EPA 1631E	493734
35428788001	**SW-11**	SM 2540C	492331		
35428788002	**SW-12**	SM 2540C	492331		
35428788003	**SW-5**	SM 2540C	492331		
35428788004	**SW-2**	SM 2540C	492331		
35428788005	**SW-1**	SM 2540C	492331		
35428788006	**SW-4**	SM 2540C	492331		
35428788007	**SW-3**	SM 2540C	492331		
35428788001	**SW-11**	SM 2540D	493117		
35428788002	**SW-12**	SM 2540D	493117		
35428788003	**SW-5**	SM 2540D	493117		
35428788004	**SW-2**	SM 2540D	493117		
35428788005	**SW-1**	SM 2540D	493117		
35428788006	**SW-4**	SM 2540D	493117		
35428788007	**SW-3**	SM 2540D	493117		
35428788001	**SW-11**	SM 5210B	491644	SM 5210B	493075
35428788002	**SW-12**	SM 5210B	491644	SM 5210B	493075
35428788003	**SW-5**	SM 5210B	491644	SM 5210B	493075
35428788004	**SW-2**	SM 5210B	491644	SM 5210B	493075
35428788005	**SW-1**	SM 5210B	491644	SM 5210B	493075
35428788006	**SW-4**	SM 5210B	491644	SM 5210B	493075
35428788007	**SW-3**	SM 5210B	491644	SM 5210B	493075
35428788001	**SW-11**	SM10200	491626	SM10200	492932
35428788002	**SW-12**	SM10200	491626	SM10200	492932
35428788003	**SW-5**	SM10200	491626	SM10200	492932
35428788004	**SW-2**	SM10200	491626	SM10200	492932
35428788005	**SW-1**	SM10200	491626	SM10200	492932
35428788006	**SW-4**	SM10200	491626	SM10200	492932
35428788007	**SW-3**	SM10200	491626	SM10200	492932
35428788001	**SW-11**	TKN+NOx Calculation	495034		
35428788002	**SW-12**	TKN+NOx Calculation	496220		
35428788003	**SW-5**	TKN+NOx Calculation	496220		
35428788004	**SW-2**	TKN+NOx Calculation	496220		
35428788005	**SW-1**	TKN+NOx Calculation	496220		
35428788006	**SW-4**	TKN+NOx Calculation	495037		
35428788007	**SW-3**	TKN+NOx Calculation	495037		
35428788001	**SW-11**	EPA 350.1	492001		
35428788002	**SW-12**	EPA 350.1	492001		
35428788003	**SW-5**	EPA 350.1	492001		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35428788004	**SW-2**	EPA 350.1	492365		
35428788005	**SW-1**	EPA 350.1	492365		
35428788006	**SW-4**	EPA 350.1	492365		
35428788007	**SW-3**	EPA 350.1	492366		
35428788001	**SW-11**	EPA 351.2	494306	EPA 351.2	494826
35428788002	**SW-12**	EPA 351.2	495946	EPA 351.2	496074
35428788003	**SW-5**	EPA 351.2	495946	EPA 351.2	496074
35428788004	**SW-2**	EPA 351.2	495946	EPA 351.2	496074
35428788005	**SW-1**	EPA 351.2	495946	EPA 351.2	496074
35428788006	**SW-4**	EPA 351.2	494306	EPA 351.2	494826
35428788007	**SW-3**	EPA 351.2	494306	EPA 351.2	494826
35428788001	**SW-11**	EPA 353.2	491634		
35428788002	**SW-12**	EPA 353.2	491634		
35428788003	**SW-5**	EPA 353.2	491634		
35428788004	**SW-2**	EPA 353.2	491634		
35428788005	**SW-1**	EPA 353.2	491634		
35428788006	**SW-4**	EPA 353.2	491634		
35428788007	**SW-3**	EPA 353.2	491635		
35428788001	**SW-11**	EPA 365.4	494308	EPA 365.4	494827
35428788002	**SW-12**	EPA 365.4	494085	EPA 365.4	494360
35428788003	**SW-5**	EPA 365.4	494085	EPA 365.4	494360
35428788004	**SW-2**	EPA 365.4	494085	EPA 365.4	494360
35428788005	**SW-1**	EPA 365.4	494085	EPA 365.4	494360
35428788006	**SW-4**	EPA 365.4	494308	EPA 365.4	494827
35428788007	**SW-3**	EPA 365.4	494308	EPA 365.4	494827
35428788001	**SW-11**	EPA 410.4	491700	EPA 410.4	492118
35428788002	**SW-12**	EPA 410.4	491700	EPA 410.4	492118
35428788003	**SW-5**	EPA 410.4	491700	EPA 410.4	492118
35428788004	**SW-2**	EPA 410.4	491700	EPA 410.4	492118
35428788005	**SW-1**	EPA 410.4	491700	EPA 410.4	492118
35428788006	**SW-4**	EPA 410.4	491700	EPA 410.4	492118
35428788007	**SW-3**	EPA 410.4	491700	EPA 410.4	492118
35428788001	**SW-11**	SM 5310B	493151		
35428788002	**SW-12**	SM 5310B	493151		
35428788003	**SW-5**	SM 5310B	493151		
35428788004	**SW-2**	SM 5310B	493151		
35428788005	**SW-1**	SM 5310B	493151		
35428788006	**SW-4**	SM 5310B	493151		
35428788007	**SW-3**	SM 5310B	493151		
35428788001	**SW-11**	FLDEP SOP 10/03/83	493567		
35428788002	**SW-12**	FLDEP SOP 10/03/83	493567		
35428788003	**SW-5**	FLDEP SOP 10/03/83	493567		
35428788004	**SW-2**	FLDEP SOP 10/03/83	493567		

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual SWs
Pace Project No.: 35428788

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35428788005	**SW-1**	FLDEP SOP 10/03/83	493567		
35428788006	**SW-4**	FLDEP SOP 10/03/83	493567		
35428788007	**SW-3**	FLDEP SOP 10/03/83	493567		

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

WO# : 35428788

Pace Analytical

35428788

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

Company:	Volusia County Solid Waste Management
Address:	1990 Tomoka Farms Road
Port Orange, FL 32128	
Email:	jstirk@volusia.org
Phone: (386)947-2952	Fax:
Requested Due Date:	

Required Project Information:

Report To:	Jennifer Stirk
Copy To:	
Purchase Order #:	
Project Name:	Tomoka LF Semi-annual SWs
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	jeff.baylor@pacelabs.com,
Pace Profile #:	1590, Line 3

Regulatory Agency:

State / Location:

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 VOCs Full List	EDB 8011	Metals by 6010/6020	Ammonia/COD/TN/TP	BOD/NO3/TSS/TDS	TOC	Chlorophyll-A	Fecal Coliform MF	Low Level Mercury	Trip Blank DO NOT OPEN -			Residual Chlorine (Y/N)	
1	SW 11					11-6-18	1015											Y	Y	Y	Y	Y	Y	Y	Y	Y				
2	SW 12						1050																							
3	SW 5						1200																							
4	SW 2						1235																							
5	SW 1						1350																							
6	SW 4						1430																							
7	SW 3						1500																							
8	TRIP ~~BLANK~~ BLANK						0000																					√		
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	ACE	11-5-18	12:08							
	[signature] / Pace	11-6-18	1610	NKR / Pace FedEx	11/6/18	1610	3.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible] ICE

SIGNATURE of SAMPLER: [signature] DATE Signed: 11-6-18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Florida Laboratory	Document Name: Field Sampling Log	Date Revised: December 3, 2012
	Document Number: F-FL-C-022 rev.00	Issuing Authority: Pace Florida Quality Office

Field Sampling Log

Arrived on Site Date 11-6-18 Time: 945 Departed Site Time:

Sampler's Signature ~~BA~~ DI Sampler's Name DAVID ICE

CLIENT NAME: Volusia county solid wa PROJECT NAME: Tomoka LF Annual Sws

CLIENT CONTACT: SITE CONTACT:

Personnel on Site: DAVID ICE

SITE Location: Tomoka LF

Ambient Conditions: sunny 80°

Brief Description of Field Activities: COLLECT SAMPLE FROM RETENSION POND & WATER DITCHES

Field Equipment Used: YSI pro plus, Hach

Decon Procedures: Yes / (No) If Yes. Please Describe

Field Filtering: Yes / (No) If Yes. Please Describe

Sample Matrix: DW (GW) WW SU STW SO SE ML Other:

Physical Characteristics of Sample :

Sampling Method: GRAB ✓ COMPOSITE

For Composite Sampling; Document Sampling Procedure for Collecting a Representative Sample:

QC Blanks: Precleaned EQB Field Cleaned EQB

Field Blanks Trip Blanks QC Samples: Duplicate Replicate Samples

Split Samples(explain)

Sx. Location	Date and Time	Parameters	Appearance	Odor	pH	Temp °C	Conductivity	DO	Turbidity	ORP
SW # 11	11-6-18 1015	BB# 286606	Yellow		7.8	26.8	517	2.99	28.9	
SW # 12	" 1050	"	"		8.50	26.2	426.1	5.21	42.0	50.5
SW #5	" 1200	"	"		8.20	26.1	488	5.86	4.30	35.2
SW #2	" 1235	"	"		7.72	23.5	210.6	5.07	3.45	18.8
SW #1	" 1350	"	"		8.02	27.3	322.1	4.09	10.4	35.3
SW #4	" 1430	"	"		7.35	23.7	234.3	1.32	5.87	29.2

Calibration of Meters

Meter	Y / N	Standard	Slope	Variance		Value			
SW #3	Y 1500	1	1	6.59	24.9	128.4	0.89	1.41	37.8

Other Notation's or Anomalies:

ORP 50.5

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35428788

Project Manager: PM: JSB **Due Date:** 11/20/18

Client: CLIENT: VOLDPW

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

Thermometer Used: T350 Date: 11/06/18 Time: 1610 Initials: JDJ

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

Cooler #1 Temp.°C	3.5 (Visual)	+0 (Correction Factor)	3.5 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	2.6 (Visual)	+0 (Correction Factor)	2.6 (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 Ziplock

Samples shorted to lab (If Yes, complete) Shorted Date: 11/06/18 Shorted Time: 1620 Qty: 7SPSU

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

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

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 21, 2018

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Dear Ms. Stirk:
Enclosed are the analytical results for sample(s) received by the laboratory on November 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, Volusia County Solid Waste Man

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35429222001	**EQ BLANK 11/7/18**	Water	11/07/18 09:15	11/07/18 15:55
35429222002	**B70-1**	Water	11/07/18 10:10	11/07/18 15:55
35429222003	**B70-2**	Water	11/07/18 10:33	11/07/18 15:55
35429222004	**B70-2 DUP**	Water	11/07/18 10:33	11/07/18 15:55
35429222005	**B68**	Water	11/07/18 11:21	11/07/18 15:55
35429222006	**B59-1R**	Water	11/07/18 12:14	11/07/18 15:55
35429222007	**B59-2R**	Water	11/07/18 12:38	11/07/18 15:55
35429222008	**B60**	Water	11/07/18 13:08	11/07/18 15:55
35429222009	**B75**	Water	11/07/18 14:26	11/07/18 15:55
35429222010	**B74**	Water	11/07/18 14:55	11/07/18 15:55

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429222001	**EQ BLANK 11/7/18**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429222002	**B70-1**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429222003	**B70-2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429222004	**B70-2 DUP**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429222005	**B68**	EPA 8011	SMH	2	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429222006	**B59-1R**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429222007	**B59-2R**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429222008	**B60**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429222009	**B75**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429222010	**B74**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35429222001	**EQ BLANK 11/7/18**					
EPA 6010	Barium	2.3 I	ug/L	10.0	11/10/18 19:09	
35429222002	**B70-1**					
	Field pH	5.30	Std. Units		11/08/18 12:41	
	Field Temperature	25.1	deg C		11/08/18 12:41	
	Appearance	Color:Clear, Sheen:None			11/08/18 12:41	
	Field Specific Conductance	251	umhos/cm		11/08/18 12:41	
	Oxygen, Dissolved	1.40	mg/L		11/08/18 12:41	
	REDOX	13.5	mV		11/08/18 12:41	
	Turbidity	3.49	NTU		11/08/18 12:41	
	Water Level(NGVD)	23.04	feet		11/08/18 12:41	
EPA 6010	Barium	32.8	ug/L	10.0	11/10/18 19:20	
EPA 6010	Iron	7040	ug/L	40.0	11/10/18 19:20	
EPA 6010	Sodium	26.6	mg/L	2.0	11/10/18 19:20	
EPA 6010	Vanadium	1.6 I	ug/L	10.0	11/10/18 19:20	
EPA 6020	Arsenic	1.2	ug/L	1.0	11/10/18 16:09	
SM 2540C	Total Dissolved Solids	151	mg/L	5.0	11/14/18 13:39	
EPA 300.0	Chloride	31.4	mg/L	5.0	11/09/18 00:06	
EPA 353.2	Nitrogen, Nitrate	0.063	mg/L	0.050	11/08/18 10:11	
35429222003	**B70-2**					
	Field pH	6.08	Std. Units		11/08/18 12:42	
	Field Temperature	25.8	deg C		11/08/18 12:42	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:42	
	Field Specific Conductance	437	umhos/cm		11/08/18 12:42	
	Oxygen, Dissolved	1.43	mg/L		11/08/18 12:42	
	REDOX	76.6	mV		11/08/18 12:42	
	Turbidity	13.10	NTU		11/08/18 12:42	
	Water Level(NGVD)	23.46	feet		11/08/18 12:42	
EPA 6010	Barium	43.5	ug/L	10.0	11/10/18 19:23	
EPA 6010	Iron	518	ug/L	40.0	11/10/18 19:23	
EPA 6010	Sodium	15.9	mg/L	2.0	11/10/18 19:23	
EPA 6010	Vanadium	7.6 I	ug/L	10.0	11/10/18 19:23	
EPA 6020	Arsenic	0.77 I	ug/L	1.0	11/10/18 16:17	
SM 2540C	Total Dissolved Solids	259	mg/L	5.0	11/14/18 13:39	
EPA 300.0	Chloride	20.5	mg/L	5.0	11/09/18 00:28	
EPA 353.2	Nitrogen, Nitrate	6.5	mg/L	0.25	11/08/18 10:38	
35429222004	**B70-2 DUP**					
	Field pH	6.08	Std. Units		11/08/18 12:44	
	Field Temperature	25.8	deg C		11/08/18 12:44	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:44	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35429222004	**B70-2 DUP**					
	Field Specific Conductance	437	umhos/cm		11/08/18 12:44	
	Oxygen, Dissolved	1.43	mg/L		11/08/18 12:44	
	REDOX	76.6	mV		11/08/18 12:44	
	Turbidity	13.10	NTU		11/08/18 12:44	
	Water Level(NGVD)	23.46	feet		11/08/18 12:44	
EPA 6010	Barium	39.5	ug/L	10.0	11/10/18 19:31	
EPA 6010	Iron	493	ug/L	40.0	11/10/18 19:31	
EPA 6010	Sodium	14.7	mg/L	2.0	11/10/18 19:31	
EPA 6010	Vanadium	6.7 I	ug/L	10.0	11/10/18 19:31	
EPA 6020	Arsenic	0.79 I	ug/L	1.0	11/10/18 16:18	
SM 2540C	Total Dissolved Solids	261	mg/L	5.0	11/14/18 13:39	
EPA 300.0	Chloride	21.7	mg/L	5.0	11/09/18 00:50	
EPA 353.2	Nitrogen, Nitrate	6.2	mg/L	0.25	11/08/18 10:39	
35429222005	**B68**					
	Field pH	5.77	Std. Units		11/08/18 12:45	
	Field Temperature	25.7	deg C		11/08/18 12:45	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:45	
	Field Specific Conductance	1172	umhos/cm		11/08/18 12:45	
	Oxygen, Dissolved	2.60	mg/L		11/08/18 12:45	
	REDOX	-63.5	mV		11/08/18 12:45	
	Turbidity	0.14	NTU		11/08/18 12:45	
	Water Level(NGVD)	26.59	feet		11/08/18 12:45	
EPA 6010	Barium	223	ug/L	10.0	11/10/18 19:34	
EPA 6010	Iron	45400	ug/L	800	11/12/18 15:58	
EPA 6010	Sodium	32.1	mg/L	2.0	11/10/18 19:34	
EPA 6010	Vanadium	2.9 I	ug/L	10.0	11/10/18 19:34	
EPA 6020	Arsenic	2.3	ug/L	1.0	11/10/18 16:19	
SM 2540C	Total Dissolved Solids	802	mg/L	10.0	11/14/18 13:39	
EPA 300.0	Chloride	28.6	mg/L	25.0	11/09/18 02:40	
EPA 350.1	Nitrogen, Ammonia	2.6	mg/L	0.050	11/10/18 14:16	
EPA 353.2	Nitrogen, Nitrate	0.11	mg/L	0.050	11/08/18 10:26	
35429222006	**B59-1R**					
	Field pH	6.45	Std. Units		11/08/18 12:46	
	Field Temperature	25.8	deg C		11/08/18 12:46	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:46	
	Field Specific Conductance	568	umhos/cm		11/08/18 12:46	
	Oxygen, Dissolved	1.36	mg/L		11/08/18 12:46	
	REDOX	-104.9	mV		11/08/18 12:46	
	Turbidity	1.01	NTU		11/08/18 12:46	
	Water Level(NGVD)	26.19	feet		11/08/18 12:46	
EPA 6010	Barium	83.0	ug/L	10.0	11/10/18 19:37	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35429222006	**B59-1R**					
EPA 6010	Iron	4580	ug/L	40.0	11/10/18 19:37	
EPA 6010	Sodium	43.0	mg/L	2.0	11/10/18 19:37	
EPA 6010	Vanadium	2.0 I	ug/L	10.0	11/10/18 19:37	
SM 2540C	Total Dissolved Solids	300	mg/L	5.0	11/14/18 13:39	
EPA 300.0	Chloride	40.7	mg/L	5.0	11/09/18 03:46	
EPA 350.1	Nitrogen, Ammonia	1.4	mg/L	0.050	11/10/18 14:18	
35429222007	**B59-2R**					
	Field pH	6.79	Std. Units		11/08/18 12:47	
	Field Temperature	26.7	deg C		11/08/18 12:47	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:47	
	Field Specific Conductance	710	umhos/cm		11/08/18 12:47	
	Oxygen, Dissolved	1.08	mg/L		11/08/18 12:47	
	REDOX	-42.5	mV		11/08/18 12:47	
	Turbidity	22.27	NTU		11/08/18 12:47	
	Water Level(NGVD)	26.63	feet		11/08/18 12:47	
EPA 6010	Barium	85.4	ug/L	10.0	11/10/18 19:40	
EPA 6010	Iron	2710	ug/L	40.0	11/10/18 19:40	
EPA 6010	Sodium	22.2	mg/L	2.0	11/10/18 19:40	
EPA 6010	Vanadium	5.5 I	ug/L	10.0	11/10/18 19:40	
EPA 6020	Arsenic	2.9	ug/L	1.0	11/10/18 16:22	
SM 2540C	Total Dissolved Solids	427	mg/L	5.0	11/14/18 13:39	
EPA 300.0	Chloride	16.9	mg/L	10.0	11/09/18 04:08	
EPA 350.1	Nitrogen, Ammonia	0.13	mg/L	0.050	11/10/18 14:20	
EPA 353.2	Nitrogen, Nitrate	0.085	mg/L	0.050	11/08/18 10:42	
35429222008	**B60**					
	Field pH	6.38	Std. Units		11/08/18 12:49	
	Field Temperature	25.6	deg C		11/08/18 12:49	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:49	
	Field Specific Conductance	521	umhos/cm		11/08/18 12:49	
	Oxygen, Dissolved	1.10	mg/L		11/08/18 12:49	
	REDOX	-89.4	mV		11/08/18 12:49	
	Turbidity	9.01	NTU		11/08/18 12:49	
	Water Level(NGVD)	26.35	feet		11/08/18 12:49	
EPA 6010	Barium	86.8	ug/L	10.0	11/10/18 19:43	
EPA 6010	Iron	4310	ug/L	40.0	11/10/18 19:43	
EPA 6010	Sodium	38.8	mg/L	2.0	11/10/18 19:43	
EPA 6010	Vanadium	2.0 I	ug/L	10.0	11/10/18 19:43	
EPA 6020	Arsenic	0.61 I	ug/L	1.0	11/10/18 16:23	
SM 2540C	Total Dissolved Solids	299	mg/L	5.0	11/14/18 13:40	
EPA 300.0	Chloride	46.5	mg/L	5.0	11/09/18 04:30	
EPA 350.1	Nitrogen, Ammonia	1.6	mg/L	0.050	11/10/18 14:26	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35429222008	**B60**					
EPA 353.2	Nitrogen, Nitrate	0.066	mg/L	0.050	11/08/18 10:43	
35429222009	**B75**					
	Field pH	6.19	Std. Units		11/08/18 12:55	
	Field Temperature	27.0	deg C		11/08/18 12:55	
	Appearance	Color:Brown, Sheen:None			11/08/18 12:55	
	Field Specific Conductance	1389	umhos/cm		11/08/18 12:55	
	Oxygen, Dissolved	1.10	mg/L		11/08/18 12:55	
	REDOX	-107.5	mV		11/08/18 12:55	
	Turbidity	49.83	NTU		11/08/18 12:55	
	Water Level(NGVD)	20.87	feet		11/08/18 12:55	
EPA 6010	Barium	164	ug/L	10.0	11/10/18 19:46	
EPA 6010	Cobalt	2.0 I	ug/L	10.0	11/10/18 19:46	
EPA 6010	Iron	65200	ug/L	800	11/12/18 16:01	
EPA 6010	Nickel	4.3 I	ug/L	5.0	11/10/18 19:46	
EPA 6010	Sodium	83.1	mg/L	2.0	11/10/18 19:46	
EPA 6010	Vanadium	9.8 I	ug/L	10.0	11/10/18 19:46	
EPA 6020	Arsenic	25.6	ug/L	1.0	11/10/18 16:24	
SM 2540C	Total Dissolved Solids	776	mg/L	10.0	11/14/18 13:40	
EPA 300.0	Chloride	129	mg/L	25.0	11/09/18 04:52	
EPA 350.1	Nitrogen, Ammonia	3.1	mg/L	0.050	11/10/18 14:27	
EPA 353.2	Nitrogen, Nitrate	0.043 I	mg/L	0.050	11/08/18 10:45	
35429222010	**B74**					
	Field pH	5.56	Std. Units		11/08/18 12:56	
	Field Temperature	27.0	deg C		11/08/18 12:56	
	Appearance	Color:Yellow, Sheen:None			11/08/18 12:56	
	Field Specific Conductance	420	umhos/cm		11/08/18 12:56	
	Oxygen, Dissolved	1.47	mg/L		11/08/18 12:56	
	REDOX	-7.9	mV		11/08/18 12:56	
	Turbidity	3.20	NTU		11/08/18 12:56	
	Water Level(NGVD)	18.87	feet		11/08/18 12:56	
EPA 6010	Barium	28.1	ug/L	10.0	11/10/18 19:49	
EPA 6010	Cobalt	2.0 I	ug/L	10.0	11/10/18 19:49	
EPA 6010	Iron	8860	ug/L	40.0	11/10/18 19:49	
EPA 6010	Sodium	7.8	mg/L	2.0	11/10/18 19:49	
EPA 6010	Vanadium	4.8 I	ug/L	10.0	11/10/18 19:49	
EPA 6020	Arsenic	6.1	ug/L	1.0	11/10/18 16:28	
EPA 8260	Benzene	3.3	ug/L	1.0	11/15/18 18:22	
EPA 8260	Vinyl chloride	0.54 I	ug/L	1.0	11/15/18 18:22	
EPA 8260	Xylene (Total)	4.9	ug/L	3.0	11/15/18 18:22	
SM 2540C	Total Dissolved Solids	265	mg/L	5.0	11/14/18 13:40	
EPA 300.0	Chloride	6.6	mg/L	5.0	11/09/18 05:14	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35429222010	**B74**					
EPA 350.1	Nitrogen, Ammonia	4.7	mg/L	0.050	11/10/18 14:29	
EPA 353.2	Nitrogen, Nitrate	0.11	mg/L	0.050	11/08/18 10:47	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: EQ BLANK 11/7/18 **Lab ID: 35429222001** Collected: 11/07/18 09:15 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/12/18 10:18	11/13/18 16:56	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/12/18 10:18	11/13/18 16:56	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**2.3 I**	ug/L	10.0	0.84	1	11/10/18 03:17	11/10/18 19:09	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/10/18 03:17	11/10/18 19:09	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/10/18 03:17	11/10/18 19:09	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/10/18 03:17	11/10/18 19:09	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/10/18 03:17	11/10/18 19:09	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/10/18 03:17	11/10/18 19:09	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	11/10/18 03:17	11/10/18 19:09	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/10/18 03:17	11/10/18 19:09	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/10/18 03:17	11/10/18 19:09	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/10/18 03:17	11/10/18 19:09	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/10/18 03:17	11/10/18 19:09	7440-22-4	
Sodium	**0.27 U**	mg/L	2.0	0.27	1	11/10/18 03:17	11/10/18 19:09	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/10/18 03:17	11/10/18 19:09	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/10/18 03:17	11/10/18 19:09	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:08	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:08	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/18 11:17	11/20/18 15:54	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 14:42	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:42	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 14:42	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 14:42	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 14:42	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:42	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:42	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 14:42	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 14:42	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 14:42	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 14:42	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 14:42	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: EQ BLANK 11/7/18 **Lab ID: 35429222001** Collected: 11/07/18 09:15 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:42	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 14:42	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 14:42	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:42	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 14:42	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 14:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 14:42	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 14:42	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 14:42	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 14:42	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 14:42	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 14:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/15/18 14:42	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/15/18 14:42	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/15/18 14:42	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		11/14/18 13:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5 U**	mg/L	5.0	2.5	1		11/08/18 16:03	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/10/18 14:09	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/08/18 10:12	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B70-1 **Lab ID: 35429222002** Collected: 11/07/18 10:10 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.30**	Std. Units			1		11/08/18 12:41		
Field Temperature	**25.1**	deg C			1		11/08/18 12:41		
Appearance	**Color:Clear, Sheen:None**				1		11/08/18 12:41		
Field Specific Conductance	**251**	umhos/cm			1		11/08/18 12:41		
Oxygen, Dissolved	**1.40**	mg/L			1		11/08/18 12:41	7782-44-7	
REDOX	**13.5**	mV			1		11/08/18 12:41		
Turbidity	**3.49**	NTU			1		11/08/18 12:41		
Water Level(NGVD)	**23.04**	feet			1		11/08/18 12:41		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.020	0.0062	1	11/12/18 10:18	11/13/18 17:11	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/12/18 10:18	11/13/18 17:11	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**32.8**	ug/L	10.0	0.84	1	11/10/18 03:17	11/10/18 19:20	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/10/18 03:17	11/10/18 19:20	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/10/18 03:17	11/10/18 19:20	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/10/18 03:17	11/10/18 19:20	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/10/18 03:17	11/10/18 19:20	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/10/18 03:17	11/10/18 19:20	7440-50-8	
Iron	**7040**	ug/L	40.0	9.2	1	11/10/18 03:17	11/10/18 19:20	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/10/18 03:17	11/10/18 19:20	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/10/18 03:17	11/10/18 19:20	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/10/18 03:17	11/10/18 19:20	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/10/18 03:17	11/10/18 19:20	7440-22-4	
Sodium	**26.6**	mg/L	2.0	0.27	1	11/10/18 03:17	11/10/18 19:20	7440-23-5	
Vanadium	**1.6 I**	ug/L	10.0	1.0	1	11/10/18 03:17	11/10/18 19:20	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/10/18 03:17	11/10/18 19:20	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:09	7440-36-0	
Arsenic	**1.2**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:09	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/18 11:17	11/20/18 15:56	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 15:06	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:06	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 15:06	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 15:06	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B70-1 **Lab ID: 35429222002** Collected: 11/07/18 10:10 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 15:06	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:06	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:06	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 15:06	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 15:06	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 15:06	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 15:06	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 15:06	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:06	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 15:06	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 15:06	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:06	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 15:06	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 15:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:06	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 15:06	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 15:06	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 15:06	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:06	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 15:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/15/18 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/15/18 15:06	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/15/18 15:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B70-1 **Lab ID: 35429222002** Collected: 11/07/18 10:10 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**151**	mg/L	5.0	5.0	1		11/14/18 13:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**31.4**	mg/L	5.0	2.5	1		11/09/18 00:06	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/10/18 14:11	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.063**	mg/L	0.050	0.025	1		11/08/18 10:11	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B70-2 **Lab ID: 35429222003** Collected: 11/07/18 10:33 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.08**	Std. Units			1		11/08/18 12:42		
Field Temperature	**25.8**	deg C			1		11/08/18 12:42		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:42		
Field Specific Conductance	**437**	umhos/cm			1		11/08/18 12:42		
Oxygen, Dissolved	**1.43**	mg/L			1		11/08/18 12:42	7782-44-7	
REDOX	**76.6**	mV			1		11/08/18 12:42		
Turbidity	**13.10**	NTU			1		11/08/18 12:42		
Water Level(NGVD)	**23.46**	feet			1		11/08/18 12:42		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/12/18 10:18	11/13/18 17:25	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/12/18 10:18	11/13/18 17:25	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**43.5**	ug/L	10.0	0.84	1	11/10/18 03:17	11/10/18 19:23	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/10/18 03:17	11/10/18 19:23	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/10/18 03:17	11/10/18 19:23	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/10/18 03:17	11/10/18 19:23	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/10/18 03:17	11/10/18 19:23	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/10/18 03:17	11/10/18 19:23	7440-50-8	
Iron	**518**	ug/L	40.0	9.2	1	11/10/18 03:17	11/10/18 19:23	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/10/18 03:17	11/10/18 19:23	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/10/18 03:17	11/10/18 19:23	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/10/18 03:17	11/10/18 19:23	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/10/18 03:17	11/10/18 19:23	7440-22-4	
Sodium	**15.9**	mg/L	2.0	0.27	1	11/10/18 03:17	11/10/18 19:23	7440-23-5	
Vanadium	**7.6 I**	ug/L	10.0	1.0	1	11/10/18 03:17	11/10/18 19:23	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/10/18 03:17	11/10/18 19:23	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:17	7440-36-0	
Arsenic	**0.77 I**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:17	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/18 11:17	11/20/18 15:58	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 15:31	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:31	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 15:31	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 15:31	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B70-2 **Lab ID: 35429222003** Collected: 11/07/18 10:33 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 15:31	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:31	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:31	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 15:31	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 15:31	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 15:31	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 15:31	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 15:31	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:31	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 15:31	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 15:31	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:31	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 15:31	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 15:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:31	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 15:31	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 15:31	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 15:31	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:31	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 15:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/15/18 15:31	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/15/18 15:31	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/15/18 15:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B70-2 **Lab ID: 35429222003** Collected: 11/07/18 10:33 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**259**	mg/L	5.0	5.0	1		11/14/18 13:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**20.5**	mg/L	5.0	2.5	1		11/09/18 00:28	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/10/18 14:13	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**6.5**	mg/L	0.25	0.12	5		11/08/18 10:38	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B70-2 DUP **Lab ID: 35429222004** Collected: 11/07/18 10:33 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.08**	Std. Units			1		11/08/18 12:44		
Field Temperature	**25.8**	deg C			1		11/08/18 12:44		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:44		
Field Specific Conductance	**437**	umhos/cm			1		11/08/18 12:44		
Oxygen, Dissolved	**1.43**	mg/L			1		11/08/18 12:44	7782-44-7	
REDOX	**76.6**	mV			1		11/08/18 12:44		
Turbidity	**13.10**	NTU			1		11/08/18 12:44		
Water Level(NGVD)	**23.46**	feet			1		11/08/18 12:44		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/12/18 10:18	11/13/18 17:40	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/12/18 10:18	11/13/18 17:40	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**39.5**	ug/L	10.0	0.84	1	11/10/18 03:17	11/10/18 19:31	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/10/18 03:17	11/10/18 19:31	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/10/18 03:17	11/10/18 19:31	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/10/18 03:17	11/10/18 19:31	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/10/18 03:17	11/10/18 19:31	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/10/18 03:17	11/10/18 19:31	7440-50-8	
Iron	**493**	ug/L	40.0	9.2	1	11/10/18 03:17	11/10/18 19:31	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/10/18 03:17	11/10/18 19:31	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/10/18 03:17	11/10/18 19:31	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/10/18 03:17	11/10/18 19:31	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/10/18 03:17	11/10/18 19:31	7440-22-4	
Sodium	**14.7**	mg/L	2.0	0.27	1	11/10/18 03:17	11/10/18 19:31	7440-23-5	
Vanadium	**6.7 I**	ug/L	10.0	1.0	1	11/10/18 03:17	11/10/18 19:31	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/10/18 03:17	11/10/18 19:31	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:18	7440-36-0	
Arsenic	**0.79 I**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:18	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/18 11:17	11/20/18 16:16	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 15:55	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:55	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 15:55	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 15:55	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B70-2 DUP **Lab ID: 35429222004** Collected: 11/07/18 10:33 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 15:55	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:55	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:55	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 15:55	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 15:55	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 15:55	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 15:55	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 15:55	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:55	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 15:55	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 15:55	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:55	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 15:55	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 15:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 15:55	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 15:55	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 15:55	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 15:55	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 15:55	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 15:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/15/18 15:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/15/18 15:55	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/15/18 15:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B70-2 DUP **Lab ID: 35429222004** Collected: 11/07/18 10:33 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**261**	mg/L	5.0	5.0	1		11/14/18 13:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**21.7**	mg/L	5.0	2.5	1		11/09/18 00:50	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/10/18 14:14	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**6.2**	mg/L	0.25	0.12	5		11/08/18 10:39	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B68 **Lab ID: 35429222005** Collected: 11/07/18 11:21 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.77**	Std. Units			1		11/08/18 12:45		
Field Temperature	**25.7**	deg C			1		11/08/18 12:45		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:45		
Field Specific Conductance	**1172**	umhos/cm			1		11/08/18 12:45		
Oxygen, Dissolved	**2.60**	mg/L			1		11/08/18 12:45	7782-44-7	
REDOX	**-63.5**	mV			1		11/08/18 12:45		
Turbidity	**0.14**	NTU			1		11/08/18 12:45		
Water Level(NGVD)	**26.59**	feet			1		11/08/18 12:45		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/12/18 10:18	11/13/18 18:09	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/12/18 10:18	11/13/18 18:09	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**223**	ug/L	10.0	0.84	1	11/10/18 03:17	11/10/18 19:34	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/10/18 03:17	11/10/18 19:34	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/10/18 03:17	11/10/18 19:34	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/10/18 03:17	11/10/18 19:34	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/10/18 03:17	11/10/18 19:34	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/10/18 03:17	11/10/18 19:34	7440-50-8	
Iron	**45400**	ug/L	800	184	20	11/10/18 03:17	11/12/18 15:58	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/10/18 03:17	11/10/18 19:34	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/10/18 03:17	11/10/18 19:34	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/10/18 03:17	11/10/18 19:34	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/10/18 03:17	11/10/18 19:34	7440-22-4	
Sodium	**32.1**	mg/L	2.0	0.27	1	11/10/18 03:17	11/10/18 19:34	7440-23-5	
Vanadium	**2.9 I**	ug/L	10.0	1.0	1	11/10/18 03:17	11/10/18 19:34	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/10/18 03:17	11/10/18 19:34	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:19	7440-36-0	
Arsenic	**2.3**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:19	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/18 11:17	11/20/18 16:20	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 16:20	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:20	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 16:20	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 16:20	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B68 **Lab ID: 35429222005** Collected: 11/07/18 11:21 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 16:20	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:20	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:20	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 16:20	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 16:20	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 16:20	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 16:20	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 16:20	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:20	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 16:20	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 16:20	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:20	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 16:20	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 16:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:20	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 16:20	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 16:20	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 16:20	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:20	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 16:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/15/18 16:20	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/15/18 16:20	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/15/18 16:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B68 **Lab ID: 35429222005** Collected: 11/07/18 11:21 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**802**	mg/L	10.0	10.0	1		11/14/18 13:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**28.6**	mg/L	25.0	12.5	5		11/09/18 02:40	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**2.6**	mg/L	0.050	0.035	1		11/10/18 14:16	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.11**	mg/L	0.050	0.025	1		11/08/18 10:26	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B59-1R **Lab ID: 35429222006** Collected: 11/07/18 12:14 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.45**	Std. Units			1		11/08/18 12:46		
Field Temperature	**25.8**	deg C			1		11/08/18 12:46		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:46		
Field Specific Conductance	**568**	umhos/cm			1		11/08/18 12:46		
Oxygen, Dissolved	**1.36**	mg/L			1		11/08/18 12:46	7782-44-7	
REDOX	**-104.9**	mV			1		11/08/18 12:46		
Turbidity	**1.01**	NTU			1		11/08/18 12:46		
Water Level(NGVD)	**26.19**	feet			1		11/08/18 12:46		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/12/18 10:18	11/13/18 18:24	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/12/18 10:18	11/13/18 18:24	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**83.0**	ug/L	10.0	0.84	1	11/10/18 03:17	11/10/18 19:37	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/10/18 03:17	11/10/18 19:37	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/10/18 03:17	11/10/18 19:37	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/10/18 03:17	11/10/18 19:37	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/10/18 03:17	11/10/18 19:37	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/10/18 03:17	11/10/18 19:37	7440-50-8	
Iron	**4580**	ug/L	40.0	9.2	1	11/10/18 03:17	11/10/18 19:37	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/10/18 03:17	11/10/18 19:37	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/10/18 03:17	11/10/18 19:37	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/10/18 03:17	11/10/18 19:37	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/10/18 03:17	11/10/18 19:37	7440-22-4	
Sodium	**43.0**	mg/L	2.0	0.27	1	11/10/18 03:17	11/10/18 19:37	7440-23-5	
Vanadium	**2.0 I**	ug/L	10.0	1.0	1	11/10/18 03:17	11/10/18 19:37	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/10/18 03:17	11/10/18 19:37	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:20	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:20	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/18 11:17	11/20/18 16:22	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 16:44	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:44	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 16:44	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 16:44	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B59-1R **Lab ID: 35429222006** Collected: 11/07/18 12:14 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 16:44	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:44	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:44	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 16:44	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 16:44	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 16:44	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 16:44	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 16:44	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:44	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 16:44	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 16:44	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:44	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 16:44	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 16:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 16:44	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 16:44	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 16:44	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 16:44	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 16:44	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 16:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/15/18 16:44	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/15/18 16:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/15/18 16:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B59-1R **Lab ID: 35429222006** Collected: 11/07/18 12:14 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**300**	mg/L	5.0	5.0	1		11/14/18 13:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**40.7**	mg/L	5.0	2.5	1		11/09/18 03:46	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.4**	mg/L	0.050	0.035	1		11/10/18 14:18	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/08/18 10:31	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B59-2R **Lab ID: 35429222007** Collected: 11/07/18 12:38 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.79**	Std. Units			1		11/08/18 12:47		
Field Temperature	**26.7**	deg C			1		11/08/18 12:47		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:47		
Field Specific Conductance	**710**	umhos/cm			1		11/08/18 12:47		
Oxygen, Dissolved	**1.08**	mg/L			1		11/08/18 12:47	7782-44-7	
REDOX	**-42.5**	mV			1		11/08/18 12:47		
Turbidity	**22.27**	NTU			1		11/08/18 12:47		
Water Level(NGVD)	**26.63**	feet			1		11/08/18 12:47		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/12/18 10:18	11/13/18 18:39	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/12/18 10:18	11/13/18 18:39	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**85.4**	ug/L	10.0	0.84	1	11/10/18 03:17	11/10/18 19:40	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/10/18 03:17	11/10/18 19:40	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/10/18 03:17	11/10/18 19:40	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/10/18 03:17	11/10/18 19:40	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/10/18 03:17	11/10/18 19:40	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/10/18 03:17	11/10/18 19:40	7440-50-8	
Iron	**2710**	ug/L	40.0	9.2	1	11/10/18 03:17	11/10/18 19:40	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/10/18 03:17	11/10/18 19:40	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/10/18 03:17	11/10/18 19:40	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/10/18 03:17	11/10/18 19:40	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/10/18 03:17	11/10/18 19:40	7440-22-4	
Sodium	**22.2**	mg/L	2.0	0.27	1	11/10/18 03:17	11/10/18 19:40	7440-23-5	
Vanadium	**5.5 I**	ug/L	10.0	1.0	1	11/10/18 03:17	11/10/18 19:40	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/10/18 03:17	11/10/18 19:40	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:22	7440-36-0	
Arsenic	**2.9**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:22	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/18 11:17	11/20/18 16:24	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 17:09	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:09	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 17:09	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 17:09	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B59-2R **Lab ID: 35429222007** Collected: 11/07/18 12:38 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 17:09	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:09	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:09	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 17:09	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 17:09	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 17:09	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 17:09	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 17:09	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:09	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 17:09	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 17:09	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:09	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 17:09	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 17:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:09	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 17:09	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 17:09	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 17:09	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:09	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 17:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/15/18 17:09	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/15/18 17:09	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/15/18 17:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B59-2R **Lab ID: 35429222007** Collected: 11/07/18 12:38 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**427**	mg/L	5.0	5.0	1		11/14/18 13:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.9**	mg/L	10.0	5.0	2		11/09/18 04:08	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.13**	mg/L	0.050	0.035	1		11/10/18 14:20	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.085**	mg/L	0.050	0.025	1		11/08/18 10:42	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B60 **Lab ID: 35429222008** Collected: 11/07/18 13:08 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.38**	Std. Units			1		11/08/18 12:49		
Field Temperature	**25.6**	deg C			1		11/08/18 12:49		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:49		
Field Specific Conductance	**521**	umhos/cm			1		11/08/18 12:49		
Oxygen, Dissolved	**1.10**	mg/L			1		11/08/18 12:49	7782-44-7	
REDOX	**-89.4**	mV			1		11/08/18 12:49		
Turbidity	**9.01**	NTU			1		11/08/18 12:49		
Water Level(NGVD)	**26.35**	feet			1		11/08/18 12:49		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/12/18 10:18	11/13/18 18:53	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/12/18 10:18	11/13/18 18:53	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**86.8**	ug/L	10.0	0.84	1	11/10/18 03:17	11/10/18 19:43	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/10/18 03:17	11/10/18 19:43	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/10/18 03:17	11/10/18 19:43	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/10/18 03:17	11/10/18 19:43	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/10/18 03:17	11/10/18 19:43	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/10/18 03:17	11/10/18 19:43	7440-50-8	
Iron	**4310**	ug/L	40.0	9.2	1	11/10/18 03:17	11/10/18 19:43	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/10/18 03:17	11/10/18 19:43	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/10/18 03:17	11/10/18 19:43	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/10/18 03:17	11/10/18 19:43	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/10/18 03:17	11/10/18 19:43	7440-22-4	
Sodium	**38.8**	mg/L	2.0	0.27	1	11/10/18 03:17	11/10/18 19:43	7440-23-5	
Vanadium	**2.0 I**	ug/L	10.0	1.0	1	11/10/18 03:17	11/10/18 19:43	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/10/18 03:17	11/10/18 19:43	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:23	7440-36-0	
Arsenic	**0.61 I**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:23	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/18 11:17	11/20/18 16:26	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 17:33	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:33	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 17:33	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 17:33	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B60 **Lab ID: 35429222008** Collected: 11/07/18 13:08 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 17:33	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:33	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:33	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 17:33	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 17:33	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 17:33	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 17:33	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 17:33	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:33	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 17:33	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 17:33	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:33	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 17:33	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 17:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:33	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 17:33	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 17:33	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 17:33	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:33	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 17:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/15/18 17:33	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/15/18 17:33	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/15/18 17:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B60 **Lab ID: 35429222008** Collected: 11/07/18 13:08 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**299**	mg/L	5.0	5.0	1		11/14/18 13:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**46.5**	mg/L	5.0	2.5	1		11/09/18 04:30	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.6**	mg/L	0.050	0.035	1		11/10/18 14:26	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.066**	mg/L	0.050	0.025	1		11/08/18 10:43	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B75 **Lab ID: 35429222009** Collected: 11/07/18 14:26 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.19**	Std. Units			1		11/08/18 12:55		
Field Temperature	**27.0**	deg C			1		11/08/18 12:55		
Appearance	**Color:Brown, Sheen:None**				1		11/08/18 12:55		
Field Specific Conductance	**1389**	umhos/cm			1		11/08/18 12:55		
Oxygen, Dissolved	**1.10**	mg/L			1		11/08/18 12:55	7782-44-7	
REDOX	**-107.5**	mV			1		11/08/18 12:55		
Turbidity	**49.83**	NTU			1		11/08/18 12:55		
Water Level(NGVD)	**20.87**	feet			1		11/08/18 12:55		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/12/18 10:18	11/13/18 19:08	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/12/18 10:18	11/13/18 19:08	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**164**	ug/L	10.0	0.84	1	11/10/18 03:17	11/10/18 19:46	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/10/18 03:17	11/10/18 19:46	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/10/18 03:17	11/10/18 19:46	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/10/18 03:17	11/10/18 19:46	7440-47-3	
Cobalt	**2.0 I**	ug/L	10.0	0.96	1	11/10/18 03:17	11/10/18 19:46	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/10/18 03:17	11/10/18 19:46	7440-50-8	
Iron	**65200**	ug/L	800	184	20	11/10/18 03:17	11/12/18 16:01	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/10/18 03:17	11/10/18 19:46	7439-92-1	
Nickel	**4.3 I**	ug/L	5.0	2.1	1	11/10/18 03:17	11/10/18 19:46	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/10/18 03:17	11/10/18 19:46	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/10/18 03:17	11/10/18 19:46	7440-22-4	
Sodium	**83.1**	mg/L	2.0	0.27	1	11/10/18 03:17	11/10/18 19:46	7440-23-5	
Vanadium	**9.8 I**	ug/L	10.0	1.0	1	11/10/18 03:17	11/10/18 19:46	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/10/18 03:17	11/10/18 19:46	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:24	7440-36-0	
Arsenic	**25.6**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:24	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/18 11:17	11/20/18 16:28	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 17:57	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:57	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/15/18 17:57	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 17:57	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B75 **Lab ID: 35429222009** Collected: 11/07/18 14:26 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 17:57	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:57	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:57	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 17:57	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 17:57	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 17:57	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 17:57	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 17:57	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:57	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 17:57	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 17:57	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:57	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 17:57	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 17:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 17:57	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 17:57	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 17:57	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 17:57	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 17:57	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/15/18 17:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/15/18 17:57	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/15/18 17:57	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/15/18 17:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B75 **Lab ID: 35429222009** Collected: 11/07/18 14:26 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**776**	mg/L	10.0	10.0	1		11/14/18 13:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**129**	mg/L	25.0	12.5	5		11/09/18 04:52	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**3.1**	mg/L	0.050	0.035	1		11/10/18 14:27	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.043 I**	mg/L	0.050	0.025	1		11/08/18 10:45	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B74 **Lab ID: 35429222010** Collected: 11/07/18 14:55 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.56**	Std. Units			1		11/08/18 12:56		
Field Temperature	**27.0**	deg C			1		11/08/18 12:56		
Appearance	**Color:Yellow, Sheen:None**				1		11/08/18 12:56		
Field Specific Conductance	**420**	umhos/cm			1		11/08/18 12:56		
Oxygen, Dissolved	**1.47**	mg/L			1		11/08/18 12:56	7782-44-7	
REDOX	**-7.9**	mV			1		11/08/18 12:56		
Turbidity	**3.20**	NTU			1		11/08/18 12:56		
Water Level(NGVD)	**18.87**	feet			1		11/08/18 12:56		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/12/18 10:18	11/13/18 19:23	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/12/18 10:18	11/13/18 19:23	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**28.1**	ug/L	10.0	0.84	1	11/10/18 03:17	11/10/18 19:49	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/10/18 03:17	11/10/18 19:49	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/10/18 03:17	11/10/18 19:49	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/10/18 03:17	11/10/18 19:49	7440-47-3	
Cobalt	**2.0 I**	ug/L	10.0	0.96	1	11/10/18 03:17	11/10/18 19:49	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/10/18 03:17	11/10/18 19:49	7440-50-8	
Iron	**8860**	ug/L	40.0	9.2	1	11/10/18 03:17	11/10/18 19:49	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/10/18 03:17	11/10/18 19:49	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/10/18 03:17	11/10/18 19:49	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/10/18 03:17	11/10/18 19:49	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/10/18 03:17	11/10/18 19:49	7440-22-4	
Sodium	**7.8**	mg/L	2.0	0.27	1	11/10/18 03:17	11/10/18 19:49	7440-23-5	
Vanadium	**4.8 I**	ug/L	10.0	1.0	1	11/10/18 03:17	11/10/18 19:49	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/10/18 03:17	11/10/18 19:49	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:28	7440-36-0	
Arsenic	**6.1**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:28	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/10/18 03:19	11/10/18 16:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/15/18 11:17	11/20/18 16:31	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/15/18 18:22	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 18:22	107-13-1	
Benzene	**3.3**	ug/L	1.0	0.10	1		11/15/18 18:22	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/15/18 18:22	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B74 **Lab ID: 35429222010** Collected: 11/07/18 14:55 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/15/18 18:22	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 18:22	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 18:22	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/15/18 18:22	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 18:22	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/15/18 18:22	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/15/18 18:22	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/15/18 18:22	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 18:22	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 18:22	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/15/18 18:22	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 18:22	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/15/18 18:22	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/15/18 18:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/15/18 18:22	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/15/18 18:22	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/15/18 18:22	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/15/18 18:22	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/15/18 18:22	108-05-4	
Vinyl chloride	**0.54 I**	ug/L	1.0	0.50	1		11/15/18 18:22	75-01-4	
Xylene (Total)	**4.9**	ug/L	3.0	1.5	1		11/15/18 18:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/15/18 18:22	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/15/18 18:22	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/15/18 18:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Sample: B74 **Lab ID: 35429222010** Collected: 11/07/18 14:55 Received: 11/07/18 15:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**265**	mg/L	5.0	5.0	1		11/14/18 13:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.6**	mg/L	5.0	2.5	1		11/09/18 05:14	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.7**	mg/L	0.050	0.035	1		11/10/18 14:29	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.11**	mg/L	0.050	0.025	1		11/08/18 10:47	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 493811 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

METHOD BLANK: 2670943 Matrix: Water
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/20/18 15:50	

LABORATORY CONTROL SAMPLE: 2670944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2670945 2670946

Parameter	Units	35429222003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.0	2.0	101	102	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 492689 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

METHOD BLANK: 2664909 Matrix: Water
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/10/18 19:03	
Beryllium	ug/L	1.6 U	4.0	1.6	11/10/18 19:03	
Cadmium	ug/L	0.33 U	1.0	0.33	11/10/18 19:03	
Chromium	ug/L	1.7 U	5.0	1.7	11/10/18 19:03	
Cobalt	ug/L	0.96 U	10.0	0.96	11/10/18 19:03	
Copper	ug/L	2.6 U	5.0	2.6	11/10/18 19:03	
Iron	ug/L	9.2 U	40.0	9.2	11/10/18 19:03	
Lead	ug/L	4.6 U	10.0	4.6	11/10/18 19:03	
Nickel	ug/L	2.1 U	5.0	2.1	11/10/18 19:03	
Selenium	ug/L	8.5 U	15.0	8.5	11/10/18 19:03	
Silver	ug/L	1.0 U	5.0	1.0	11/10/18 19:03	
Sodium	mg/L	0.27 U	2.0	0.27	11/10/18 19:03	
Vanadium	ug/L	1.0 U	10.0	1.0	11/10/18 19:03	
Zinc	ug/L	11.0 U	20.0	11.0	11/10/18 19:03	

LABORATORY CONTROL SAMPLE: 2664910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	253	101	80-120	
Beryllium	ug/L	25	24.8	99	80-120	
Cadmium	ug/L	25	25.5	102	80-120	
Chromium	ug/L	250	255	102	80-120	
Cobalt	ug/L	250	255	102	80-120	
Copper	ug/L	250	245	98	80-120	
Iron	ug/L	2500	2540	101	80-120	
Lead	ug/L	250	255	102	80-120	
Nickel	ug/L	250	259	104	80-120	
Selenium	ug/L	250	253	101	80-120	
Silver	ug/L	25	24.9	100	80-120	
Sodium	mg/L	12.5	13.0	104	80-120	
Vanadium	ug/L	250	251	100	80-120	
Zinc	ug/L	1250	1280	103	80-120	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2664911 2664912

Parameter	Units	35429222001 Result		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	2.3	I	250	250	257	259	102	103	75-125	1	20	
Beryllium	ug/L	1.6	U	25	25	24.9	25.3	99	101	75-125	2	20	
Cadmium	ug/L	0.33	U	25	25	25.8	26.2	103	105	75-125	2	20	
Chromium	ug/L	1.7	U	250	250	258	260	103	104	75-125	1	20	
Cobalt	ug/L	0.96	U	250	250	257	260	103	104	75-125	1	20	
Copper	ug/L	2.6	U	250	250	247	249	99	100	75-125	1	20	
Iron	ug/L	9.2	U	2500	2500	2560	2580	102	103	75-125	1	20	
Lead	ug/L	4.6	U	250	250	259	262	104	105	75-125	1	20	
Nickel	ug/L	2.1	U	250	250	261	265	104	106	75-125	1	20	
Selenium	ug/L	8.5	U	250	250	254	259	102	103	75-125	2	20	
Silver	ug/L	1.0	U	25	25	25.2	25.4	101	101	75-125	1	20	
Sodium	mg/L	0.27	U	12.5	12.5	13.1	13.2	105	106	75-125	1	20	
Vanadium	ug/L	1.0	U	250	250	254	256	101	102	75-125	1	20	
Zinc	ug/L	11.0	U	1250	1250	1290	1320	103	105	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 492688 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

METHOD BLANK: 2664905 Matrix: Water
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/10/18 16:05	
Arsenic	ug/L	0.50 U	1.0	0.50	11/10/18 16:05	
Thallium	ug/L	0.50 U	1.0	0.50	11/10/18 16:05	

LABORATORY CONTROL SAMPLE: 2664906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.1	100	80-120	
Arsenic	ug/L	50	49.0	98	80-120	
Thallium	ug/L	50	49.4	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2664907 2664908

Parameter	Units	35429222002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	49.6	49.5	99	99	75-125	0	20	
Arsenic	ug/L	1.2	50	50	49.9	50.1	97	98	75-125	0	20	
Thallium	ug/L	0.50 U	50	50	48.0	48.8	96	98	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 493994 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

METHOD BLANK: 2672034 Matrix: Water
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/15/18 09:49	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/15/18 09:49	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
Acetone	ug/L	10.0 U	20.0	10.0	11/15/18 09:49	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
Benzene	ug/L	0.10 U	1.0	0.10	11/15/18 09:49	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/15/18 09:49	
Bromoform	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/15/18 09:49	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/15/18 09:49	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/15/18 09:49	
Chloroform	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/15/18 09:49	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/15/18 09:49	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/15/18 09:49	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/15/18 09:49	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/15/18 09:49	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/15/18 09:49	
Styrene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Toluene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/15/18 09:49	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/15/18 09:49	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

METHOD BLANK: 2672034 Matrix: Water

Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/15/18 09:49	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/15/18 09:49	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/15/18 09:49	
1,2-Dichloroethane-d4 (S)	%	98	70-130		11/15/18 09:49	
4-Bromofluorobenzene (S)	%	101	70-130		11/15/18 09:49	
Toluene-d8 (S)	%	104	70-130		11/15/18 09:49	

LABORATORY CONTROL SAMPLE: 2672035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	25.2	126	70-130	
1,1,1-Trichloroethane	ug/L	20	21.3	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.1	106	68-125	
1,1,2-Trichloroethane	ug/L	20	23.0	115	70-130	
1,1-Dichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethene	ug/L	20	17.7	89	66-133	
1,2,3-Trichloropropane	ug/L	20	20.3	102	62-127	
1,2-Dichlorobenzene	ug/L	20	22.4	112	70-130	
1,2-Dichloroethane	ug/L	20	19.8	99	70-130	
1,2-Dichloropropane	ug/L	20	20.1	100	70-130	
1,4-Dichlorobenzene	ug/L	20	21.6	108	70-130	
2-Butanone (MEK)	ug/L	40	37.0	93	47-143	
2-Hexanone	ug/L	40	33.6	84	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	34.1	85	57-132	
Acetone	ug/L	40	38.0	95	46-148	
Acrylonitrile	ug/L	200	172	86	60-143	
Benzene	ug/L	20	20.6	103	70-130	
Bromochloromethane	ug/L	20	22.1	111	70-130	
Bromodichloromethane	ug/L	20	21.0	105	70-130	
Bromoform	ug/L	20	21.5	108	49-126	
Bromomethane	ug/L	20	25.2	126	10-165	
Carbon disulfide	ug/L	20	14.2	71	60-141	
Carbon tetrachloride	ug/L	20	21.6	108	63-126	
Chlorobenzene	ug/L	20	21.7	109	70-130	
Chloroethane	ug/L	20	18.3	92	71-142	
Chloroform	ug/L	20	20.2	101	70-130	
Chloromethane	ug/L	20	13.7	69	40-140	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.4	92	70-130	
Dibromochloromethane	ug/L	20	20.1	101	62-118	
Dibromomethane	ug/L	20	24.1	121	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

LABORATORY CONTROL SAMPLE: 2672035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	21.5	108	70-130	
Iodomethane	ug/L	40	22.0	55	10-164	
Methylene Chloride	ug/L	20	20.1	101	65-136	
Styrene	ug/L	20	21.8	109	70-130	
Tetrachloroethene	ug/L	20	23.6	118	64-134	
Toluene	ug/L	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	68-127	
trans-1,3-Dichloropropene	ug/L	20	19.2	96	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	42-129	
Trichloroethene	ug/L	20	22.3	111	70-130	
Trichlorofluoromethane	ug/L	20	15.3	77	65-135	
Vinyl acetate	ug/L	20	19.7	99	60-144	
Vinyl chloride	ug/L	20	17.1	85	68-131	
Xylene (Total)	ug/L	60	66.9	112	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2673837

Parameter	Units	35429012002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	21.2	106	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	17.7	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	17.0	85	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.0	85	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	15.8	79	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	16.6	83	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	17.6	88	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.4	81	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.1	80	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	17.0	85	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	37.3	93	47-143	
2-Hexanone	ug/L	5.0 U	40	31.4	78	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	31.7	79	57-132	
Acetone	ug/L	10.0 U	40	34.1	85	46-148	
Acrylonitrile	ug/L	5.0 U	200	157	79	60-143	
Benzene	ug/L	0.10 U	20	16.9	85	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.7	94	70-130	
Bromodichloromethane	ug/L	0.27 U	20	16.6	83	70-130	
Bromoform	ug/L	0.50 U	20	15.4	77	49-126	
Bromomethane	ug/L	0.50 U	20	25.6	128	10-165	
Carbon disulfide	ug/L	5.0 U	20	15.7	78	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	17.4	87	63-126	
Chlorobenzene	ug/L	0.50 U	20	18.2	89	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

MATRIX SPIKE SAMPLE: 2673837

Parameter	Units	35429012002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	0.50 U	20	19.3	97	71-142	
Chloroform	ug/L	0.50 U	20	16.6	83	70-130	
Chloromethane	ug/L	0.62 U	20	13.0	65	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	15.3	76	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.3	66	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	15.5	78	62-118	
Dibromomethane	ug/L	0.50 U	20	18.9	95	70-130	
Ethylbenzene	ug/L	0.50 U	20	17.7	89	70-130	
Iodomethane	ug/L	0.50 U	40	8.6 I	21	10-164	
Methylene Chloride	ug/L	2.5 U	20	16.5	82	65-136	
Styrene	ug/L	0.50 U	20	16.1	80	70-130	
Tetrachloroethene	ug/L	0.50 U	20	17.5	88	64-134	
Toluene	ug/L	0.50 U	20	17.3	86	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	16.3	82	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.8	74	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	12.8	64	42-129	
Trichloroethene	ug/L	0.50 U	20	18.2	91	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	16.3	82	65-135	
Vinyl acetate	ug/L	1.0 U	20	16.8	84	60-144	
Vinyl chloride	ug/L	0.50 U	20	16.6	83	68-131	
Xylene (Total)	ug/L	1.5 U	60	53.1	89	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2673836

Parameter	Units	35429012001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.22 I	0.22 I		40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

SAMPLE DUPLICATE: 2673836

Parameter	Units	35429012001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	1.9	1.8	6	40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	101	101	1	40	
4-Bromofluorobenzene (S)	%	97	101	4	40	
Toluene-d8 (S)	%	102	102	0	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 492651 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

METHOD BLANK: 2664441 Matrix: Water
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/13/18 16:27	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/13/18 16:27	

LABORATORY CONTROL SAMPLE: 2664442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.24	95	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	98	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2665490 2665491

Parameter	Units	35429268009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.51	0.53	117	122	60-140	4	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.52	0.53	120	122	60-140	2	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 493462 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

METHOD BLANK: 2669162 Matrix: Water
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/14/18 13:39	

LABORATORY CONTROL SAMPLE: 2669163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	299	100	90-110	

SAMPLE DUPLICATE: 2669165

Parameter	Units	35429222010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	265	272	3	5	

SAMPLE DUPLICATE: 2669166

Parameter	Units	35429222002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	151	152	1	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 492122
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35429222001

METHOD BLANK: 2661197 Matrix: Water
Associated Lab Samples: 35429222001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/08/18 09:42	

LABORATORY CONTROL SAMPLE: 2661198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661199 2661200

Parameter	Units	35428577001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.3	50	50	57.0	57.7	102	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661201 2661202

Parameter	Units	35429012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	24.3	50	50	75.0	75.3	101	102	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 492216 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35429222002, 35429222003, 35429222004

METHOD BLANK: 2661540 Matrix: Water
Associated Lab Samples: 35429222002, 35429222003, 35429222004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/08/18 14:56	

LABORATORY CONTROL SAMPLE: 2661542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.6	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661543 2661544

Parameter	Units	35428577002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.5	50	50	59.0	59.5	103	104	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661545 2661546

Parameter	Units	35429063001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.9	50	50	63.1	63.8	108	110	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 492218 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

METHOD BLANK: 2661551 Matrix: Water
Associated Lab Samples: 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/09/18 01:56	

LABORATORY CONTROL SAMPLE: 2661552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661553 2661554

Parameter	Units	35429222005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28.6	250	250	294	299	106	108	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 492710 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

METHOD BLANK: 2665012 Matrix: Water
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005, 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/10/18 13:41	

LABORATORY CONTROL SAMPLE: 2665013

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

MATRIX SPIKE SAMPLE: 2665015

Parameter	Units	35429190015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	26.2	5.1	31.0	95	90-110	

SAMPLE DUPLICATE: 2665014

Parameter	Units	35429190015 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	26.2	26.3	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 492010 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005

METHOD BLANK: 2660866 Matrix: Water
Associated Lab Samples: 35429222001, 35429222002, 35429222003, 35429222004, 35429222005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/08/18 09:47	

SAMPLE DUPLICATE: 2660868

Parameter	Units	35429213001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	2.1	2.1	1	20	

SAMPLE DUPLICATE: 2660870

Parameter	Units	35429311002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	4.2	4.1	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

QC Batch: 492012 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

METHOD BLANK: 2660872 Matrix: Water
Associated Lab Samples: 35429222006, 35429222007, 35429222008, 35429222009, 35429222010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/08/18 10:29	

SAMPLE DUPLICATE: 2660874

Parameter	Units	35429222006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 2660876

Parameter	Units	35429258003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

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.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

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

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429222002	**B70-1**				
35429222003	**B70-2**				
35429222004	**B70-2 DUP**				
35429222005	**B68**				
35429222006	**B59-1R**				
35429222007	**B59-2R**				
35429222008	**B60**				
35429222009	**B75**				
35429222010	**B74**				
35429222001	**EQ BLANK 11/7/18**	EPA 8011	492651	EPA 8011	493006
35429222002	**B70-1**	EPA 8011	492651	EPA 8011	493006
35429222003	**B70-2**	EPA 8011	492651	EPA 8011	493006
35429222004	**B70-2 DUP**	EPA 8011	492651	EPA 8011	493006
35429222005	**B68**	EPA 8011	492651	EPA 8011	493006
35429222006	**B59-1R**	EPA 8011	492651	EPA 8011	493006
35429222007	**B59-2R**	EPA 8011	492651	EPA 8011	493006
35429222008	**B60**	EPA 8011	492651	EPA 8011	493006
35429222009	**B75**	EPA 8011	492651	EPA 8011	493006
35429222010	**B74**	EPA 8011	492651	EPA 8011	493006
35429222001	**EQ BLANK 11/7/18**	EPA 3010	492689	EPA 6010	492708
35429222002	**B70-1**	EPA 3010	492689	EPA 6010	492708
35429222003	**B70-2**	EPA 3010	492689	EPA 6010	492708
35429222004	**B70-2 DUP**	EPA 3010	492689	EPA 6010	492708
35429222005	**B68**	EPA 3010	492689	EPA 6010	492708
35429222006	**B59-1R**	EPA 3010	492689	EPA 6010	492708
35429222007	**B59-2R**	EPA 3010	492689	EPA 6010	492708
35429222008	**B60**	EPA 3010	492689	EPA 6010	492708
35429222009	**B75**	EPA 3010	492689	EPA 6010	492708
35429222010	**B74**	EPA 3010	492689	EPA 6010	492708
35429222001	**EQ BLANK 11/7/18**	EPA 3010	492688	EPA 6020	492706
35429222002	**B70-1**	EPA 3010	492688	EPA 6020	492706
35429222003	**B70-2**	EPA 3010	492688	EPA 6020	492706
35429222004	**B70-2 DUP**	EPA 3010	492688	EPA 6020	492706
35429222005	**B68**	EPA 3010	492688	EPA 6020	492706
35429222006	**B59-1R**	EPA 3010	492688	EPA 6020	492706
35429222007	**B59-2R**	EPA 3010	492688	EPA 6020	492706
35429222008	**B60**	EPA 3010	492688	EPA 6020	492706
35429222009	**B75**	EPA 3010	492688	EPA 6020	492706
35429222010	**B74**	EPA 3010	492688	EPA 6020	492706
35429222001	**EQ BLANK 11/7/18**	EPA 7470	493811	EPA 7470	494157
35429222002	**B70-1**	EPA 7470	493811	EPA 7470	494157
35429222003	**B70-2**	EPA 7470	493811	EPA 7470	494157
35429222004	**B70-2 DUP**	EPA 7470	493811	EPA 7470	494157
35429222005	**B68**	EPA 7470	493811	EPA 7470	494157
35429222006	**B59-1R**	EPA 7470	493811	EPA 7470	494157
35429222007	**B59-2R**	EPA 7470	493811	EPA 7470	494157
35429222008	**B60**	EPA 7470	493811	EPA 7470	494157

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429222009	**B75**	EPA 7470	493811	EPA 7470	494157
35429222010	**B74**	EPA 7470	493811	EPA 7470	494157
35429222001	**EQ BLANK 11/7/18**	EPA 8260	493994		
35429222002	**B70-1**	EPA 8260	493994		
35429222003	**B70-2**	EPA 8260	493994		
35429222004	**B70-2 DUP**	EPA 8260	493994		
35429222005	**B68**	EPA 8260	493994		
35429222006	**B59-1R**	EPA 8260	493994		
35429222007	**B59-2R**	EPA 8260	493994		
35429222008	**B60**	EPA 8260	493994		
35429222009	**B75**	EPA 8260	493994		
35429222010	**B74**	EPA 8260	493994		
35429222001	**EQ BLANK 11/7/18**	SM 2540C	493462		
35429222002	**B70-1**	SM 2540C	493462		
35429222003	**B70-2**	SM 2540C	493462		
35429222004	**B70-2 DUP**	SM 2540C	493462		
35429222005	**B68**	SM 2540C	493462		
35429222006	**B59-1R**	SM 2540C	493462		
35429222007	**B59-2R**	SM 2540C	493462		
35429222008	**B60**	SM 2540C	493462		
35429222009	**B75**	SM 2540C	493462		
35429222010	**B74**	SM 2540C	493462		
35429222001	**EQ BLANK 11/7/18**	EPA 300.0	492122		
35429222002	**B70-1**	EPA 300.0	492216		
35429222003	**B70-2**	EPA 300.0	492216		
35429222004	**B70-2 DUP**	EPA 300.0	492216		
35429222005	**B68**	EPA 300.0	492218		
35429222006	**B59-1R**	EPA 300.0	492218		
35429222007	**B59-2R**	EPA 300.0	492218		
35429222008	**B60**	EPA 300.0	492218		
35429222009	**B75**	EPA 300.0	492218		
35429222010	**B74**	EPA 300.0	492218		
35429222001	**EQ BLANK 11/7/18**	EPA 350.1	492710		
35429222002	**B70-1**	EPA 350.1	492710		
35429222003	**B70-2**	EPA 350.1	492710		
35429222004	**B70-2 DUP**	EPA 350.1	492710		
35429222005	**B68**	EPA 350.1	492710		
35429222006	**B59-1R**	EPA 350.1	492710		
35429222007	**B59-2R**	EPA 350.1	492710		
35429222008	**B60**	EPA 350.1	492710		
35429222009	**B75**	EPA 350.1	492710		
35429222010	**B74**	EPA 350.1	492710		
35429222001	**EQ BLANK 11/7/18**	EPA 353.2	492010		
35429222002	**B70-1**	EPA 353.2	492010		
35429222003	**B70-2**	EPA 353.2	492010		

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35429222

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429222004	**B70-2 DUP**	EPA 353.2	492010		
35429222005	**B68**	EPA 353.2	492010		
35429222006	**B59-1R**	EPA 353.2	492012		
35429222007	**B59-2R**	EPA 353.2	492012		
35429222008	**B60**	EPA 353.2	492012		
35429222009	**B75**	EPA 353.2	492012		
35429222010	**B74**	EPA 353.2	492012		

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Do

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

WO# : 35429222

35429222

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Volusia County Solid Waste Management	Report To:	Jennifer Stirk	Attention:	
Address:	1990 Tomoka Farms Road	Copy To:		Company Name:	
Port Orange, FL 32128				Address:	
Email:	jstirk@volusia.org	Purchase Order #:		Pace Quote:	
Phone:	(386)947-2952 Fax:	Project Name:	Tomoka LF Semi-annual MWs	Pace Project Manager:	jeff.baylor@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	1590, Line 1

Regulatory Agency

State / Location

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS, NO3, Cl	ammonia	Metals by 6010/6020/Hg	EDB 8011	8260 VOCs Full List	Trip Blank DO NOT OPEN -	Residual Chlorine (Y/N)
1	EQ BLANK					11-7-18	9:15												X	X	X	X	X	X	
2	B 70-1						10:10																		
3	B 70-2						10:33																		
4	DUPLICATE (DUP)						10:33																		
5	B 64						11:21																		
6	B 59-1						12:14																		
7	B 59-2						12:35																		
8	B-60						1308																		
9	B-75						1426																		
10	B 74						1455																		
11																									
12																									

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	11-7-18	1555	[signature]	11-7-18	1555	17.0	Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: BRUCE FOSTER

SIGNATURE of SAMPLER: [signature] DATE Signed: 11-7-18

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: TOMOKA LF SEMI ANNUAL
WELL NO: EQ	SAMPLE ID: EQ	DATE: 11-7-18

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:15	SAMPLING ENDED AT: 9:22
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE			TDS Cl SO4	APP	200
	1	PE	250	HNO_3			METALS 6010/20	/	/
	1	PE	250	H_2SO_4			Ammonia	/	/
	3	CG	40	HCL			8620	/	/
	2	CG	40	ICE			SOIL	/	/

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid waste	SITE LOCATION:	Tomoka LF SEMI Annual
WELL NO:	B70-1	SAMPLE ID:	B70-1
DATE:	11-7-14		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	38 feet to 15 feet	STATIC DEPTH TO WATER (feet):	8.05	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (38.15 feet – 8.05 feet) X 0.16 gallons/foot = 4.816 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	10	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	10	PURGING INITIATED AT:	9:40	PURGING ENDED AT:	10:10	TOTAL VOLUME PURGED (gallons):	7.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:00	5.00	5.00	.25	8.42	5.29	25.3	251	1.64	4.90	clear	sulfur
10:05	1.25	6.25	.25	8.42	5.29	25.2	251	1.52	4.34	/	/
10:10	1.25	7.50	.25	8.42	5.30	25.1	251	1.40	3.49	/	/

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Bruce Foster	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	10:10	SAMPLING ENDED AT:	10:16
PUMP OR TUBING DEPTH IN WELL (feet):	10	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP	Y (N)	TUBING	Y (N) (replaced)	DUPLICATE:	Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		5.30	TDS Cl 504	APP	400
	1	PE	250	HNO3			METALS 6010/6020	/	
	1	PE	250	H2SO4			Ammonia	/	/
	3	CG	40	HCl			8260	/	/
	2	CG	40	ICE			8011	/	/

REMARKS:
ORP 149 161 13.5

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B70-2	SAMPLE ID: B70-2	DATE: 11-7-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 21 feet to 93 feet	STATIC DEPTH TO WATER (feet): 8.19	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (21.93 feet – 8.19 feet) X 0.16 gallons/foot = 2.1984 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 10:20	PURGING ENDED AT: 10:33	TOTAL VOLUME PURGED (gallons): 3.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:29	2.25	2.25	.25	9.10	6.13	25.8	493	1.55	14.98	yellow	Sulfur
10:32	0.75	3.00	.25	9.10	6.10	25.8	441	1.50	16.64	1	1
10:33	0.75	3.75	.25	9.10	6.08	25.8	437	1.43	13.10		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:33	SAMPLING ENDED AT: 10:45
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.08	TDS, Cl, SO4	APP	400
	1	PE	250	HNO3			Metals Gold Gold	/	
	1	PE	250	H2SO4			Ammonia	/	/
	3	CG	40	HCl			8260	/	/
	2	CG	40	ICE			8011	/	/

REMARKS:
ORP 70.6 74.4 76.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B6	SAMPLE ID: B6	DATE: 11-7-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 35 feet to 74 feet	STATIC DEPTH TO WATER (feet): 6.34	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.74 feet – ~~35~~ 6.34 feet) X 0.16 gallons/foot = 4.704 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 10:52	PURGING ENDED AT: 11:21	TOTAL VOLUME PURGED (gallons): 7.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:11	4.75	4.75	.25	8.44	5.77	25.9	1172	2.72	1.35	Yellow	Sulfur
11:16	1.25	~~1.25~~ 6.00	.25	8.44	5.77	25.8	1172	2.67	1.96	1	1
11:21	1.25	7.25	.25	8.44	5.77	25.7	1172	2.60	0.14		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:21	SAMPLING ENDED AT: 11:27
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	AE	1000	ICE		5.77	TDS, Cl, SO4	APP	400
	1	PE	250	HNO3			METALS 6010/7000		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	ICE			5011		

REMARKS: ~61.6 ~63.1 ~63.5

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste		SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B59-1	SAMPLE ID: 1359-1		DATE: 11-7-18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	35 feet to 00 feet	6.25	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.00 feet – 6.25 feet) X 0.16 gallons/foot = 4.60 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
9	9	11:35	12:14	9.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:54	4.75	4.75	.25	7.58	6.54	26.0	496	1.56	1.99	yellow	Sulfer
11:57	1.25	6.00	.24	7.58	6.50	26.0	528	1.53	1.50		
12:04	1.25	7.25	.25	7.58	6.47	~~5.49~~ 25.7	556	1.51	1.49		
12:09	1.25	8.51	.25	7.58	6.44	25.8	568	1.44	0.65		
12:14	1.25	9.75	.25	7.58	6.45	25.8	568	1.36	1.01		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Bruce Foster		12:14	12:20

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
9	HDPE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y N(replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.45	TDS ~~Alkalinity~~ Sol	APP	2400
	1	PE	250	HNO3			Metals 6010/6020		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCL			8260		
	2	CG	40	ICE			8011		

REMARKS:
ORP -109.1 -103 -103.4 -103.9 -104.9

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2212-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Page 207 of 271

Pace Analytical Florida Laboratory	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: TOMOKA LF SEMIANNUAL	
WELL NO: B51-2	SAMPLE ID: B51-2	DATE: 11-7-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 67 feet	STATIC DEPTH TO WATER (feet): 6.48	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (17.69 feet – 6.48 feet) X 0.16 gallons/foot = 1.7936 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 12:22	PURGING ENDED AT: 12:38	TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:30	1.92	1.92	.24	7.88	6.76	26.5	712	1.47	44.10	yellow	sulfur
12:32	.48	2.40	.24	7.88	6.75	26.5	712	1.36	40.66		
12:34	.48	2.64	.24	7.88	6.75	26.5	712	1.29	32.46		
12:36	.48	3.12	.24	7.88	6.74	26.6	710	1.14	23.81		
12:38	.48	3.60	.24	7.88	6.74	26.7	710	1.08	22.27		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:38	SAMPLING ENDED AT: 12:45
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.74	TDS Cl SO4	APP	240
	1	PE	250	HNO3			METALS Colipase	|	|
	1	PE	250	H2SO4			Ammonia	|	|
	3	CG	40	HCl			8260	|	|
	2	CG	40	ICE			8011	|	|

REMARKS: -12.5

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF SEMI ANNUAL	
WELL NO: B75	SAMPLE ID: B75	DATE: 11-7-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 29 feet to 9 feet	STATIC DEPTH TO WATER (feet): 10.71	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (29.9 feet − 10.71 feet) X 0.16 gallons/foot = 3.0704 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14	PURGING INITIATED AT: 14:11	PURGING ENDED AT: 14:26	TOTAL VOLUME PURGED (gallons): 6.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1416	3.15	3.15	.45	12.26	6.19	27.0	1389	1.51	185.0	Brown	Sulfur
1420	.90	4.05	.45	12.26	6.19	27.0	1390	1.43	182.6		
1422	.90	4.95	.45	12.26	6.19	27.0	1390	1.23	80.04		
1424	.80	5.85	.45	12.26	6.19	27.0	1390	1.16	62.73		
1426	.90	6.75	.48	12.26	6.19	27.0	1388	1.10	49.83		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Epstein	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:26	SAMPLING ENDED AT: 14:32
PUMP OR TUBING DEPTH IN WELL (feet): 14	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	1000	ICE		6.19	TDS 2540C, Cl 4500	ESP	400
	1	PE	250	HNO3			METALS 6010 6020		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	ICE			8011		

REMARKS:
ORP −106 −105.1 −107.5 −107.4 −107.5

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Florida Laboratory	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: TOMOKA LF SEMI ANNUAL	
WELL NO: B74	SAMPLE ID: B74	DATE: 11-7-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 21 feet to 45 feet	STATIC DEPTH TO WATER (feet): 15.0	PURGE PUMP TYPE OR BAILER: P

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (21.45 feet – 15.00 feet) X 0.16 gallons/foot = 1.032 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17	PURGING INITIATED AT: 1445	PURGING ENDED AT: 1455	TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1451	1.2	1.2	0.2	16.21	5.57	27.1	416	1.64	15.21	yellow	sulfur
1453	.4	1.6	0.2	16.21	5.56	27.0	414	1.60	4.75	1	1
1455	.4	2.0	0.2	16.21	5.56	27.0	420	1.47	3.26	1	1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1435	SAMPLING ENDED AT: 1502
PUMP OR TUBING DEPTH IN WELL (feet): 17	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		5.56	TPH 418.1	APP	400
	1	PE	250	H2SO3			METALS 6010/7000		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	ICE			8011		

REMARKS: -5.7 – 7.9

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form Document No.:	Document Revised: May 30, 2018 Issuing Authority: Pace Florida Quality Office

WO# : 35429222 Due Date: 11/21/18

(SCUR)

Project # PM: JSB

Project Manager: CLIENT: VOLDPW

Client:

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

Thermometer Used: T338 Date: 11/07/18 Time: 1555 Initials: JDJ

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

Cooler #1 Temp.°C 17.0	(Visual) +0	(Correction Factor) 17.0	(Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C 13.8	(Visual) +0	(Correction Factor) 13.8	(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 Triplex

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

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

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

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 29, 2018

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Dear Ms. Stirk:
Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, Volusia County Solid Waste Man

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35430329001	**EQ Blank 11/12/18**	Water	11/12/18 08:40	11/12/18 13:20
35430329002	**B64**	Water	11/12/18 09:02	11/12/18 13:20
35430329003	**B8-2**	Water	11/12/18 10:13	11/12/18 13:20
35430329004	**B33-2**	Water	11/12/18 11:55	11/12/18 13:20
35430329005	**B33-2 DUP**	Water	11/12/18 11:55	11/12/18 13:20

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35430329001	**EQ Blank 11/12/18**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430329002	**B64**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430329003	**B8-2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC, SC1	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430329004	**B33-2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430329005	**B33-2 DUP**	EPA 8011	SMH	2	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	SC1	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35430329001	**EQ Blank 11/12/18**					
EPA 6010	Barium	4.0 I	ug/L	10.0	11/27/18 01:36	
35430329002	**B64**					
	Field pH	6.07	Std. Units		11/12/18 09:02	
	Field Temperature	23.9	deg C		11/12/18 09:02	
	Appearance	Color:yellow, Sheen: none			11/12/18 09:02	
	Field Specific Conductance	694	umhos/cm		11/12/18 09:02	
	Oxygen, Dissolved	1.33	mg/L		11/12/18 09:02	
	REDOX	-49.6	mV		11/12/18 09:02	
	Turbidity	13.12	NTU		11/12/18 09:02	
	Water Level(NGVD)	26.82	feet		11/12/18 09:02	
EPA 6010	Barium	98.1	ug/L	10.0	11/27/18 01:45	
EPA 6010	Iron	23900	ug/L	40.0	11/27/18 01:45	
EPA 6010	Sodium	28.8	mg/L	2.0	11/27/18 01:45	
EPA 6010	Vanadium	2.3 I	ug/L	10.0	11/27/18 01:45	
EPA 6020	Arsenic	3.6	ug/L	1.0	11/28/18 11:09	
EPA 8260	Chlorobenzene	2.1	ug/L	1.0	11/21/18 14:37	
SM 2540C	Total Dissolved Solids	442	mg/L	5.0	11/16/18 13:45	
EPA 300.0	Chloride	20.9	mg/L	5.0	11/18/18 16:40	
EPA 350.1	Nitrogen, Ammonia	1.6	mg/L	0.050	11/13/18 12:00	
35430329003	**B8-2**					
	Field pH	5.02	Std. Units		11/12/18 10:13	
	Field Temperature	26.0	deg C		11/12/18 10:13	
	Field Specific Conductance	1802	umhos/cm		11/12/18 10:13	
	Oxygen, Dissolved	1.66	mg/L		11/12/18 10:13	
	REDOX	22.9	mV		11/12/18 10:13	
	Turbidity	116.74	NTU		11/12/18 10:13	
	Water Level(NGVD)	27.69	feet		11/12/18 10:13	
EPA 6010	Barium	406	ug/L	10.0	11/27/18 01:48	
EPA 6010	Iron	57600	ug/L	400	11/27/18 11:29	
EPA 6010	Sodium	104	mg/L	2.0	11/27/18 01:48	
EPA 6010	Vanadium	32.1	ug/L	10.0	11/27/18 01:48	
EPA 6020	Arsenic	0.77 I	ug/L	1.0	11/28/18 11:11	
SM 2540C	Total Dissolved Solids	1100	mg/L	10.0	11/16/18 13:45	
EPA 300.0	Chloride	552	mg/L	50.0	11/18/18 17:02	
EPA 350.1	Nitrogen, Ammonia	0.16	mg/L	0.050	11/13/18 12:02	
35430329004	**B33-2**					
	Field pH	6.51	Std. Units		11/12/18 11:55	
	Field Temperature	24.6	deg C		11/12/18 11:55	
	Appearance	Color: yellow, Sheen: none			11/12/18 11:55	
	Field Specific Conductance	811	umhos/cm		11/12/18 11:55	
	Oxygen, Dissolved	2.80	mg/L		11/12/18 11:55	
	REDOX	38.6	mV		11/12/18 11:55	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35430329004	**B33-2**					
	Turbidity	15.69	NTU		11/12/18 11:55	
	Water Level(NGVD)	28.62	feet		11/12/18 11:55	
EPA 6010	Barium	66.1	ug/L	10.0	11/27/18 01:50	
EPA 6010	Chromium	3.1 I	ug/L	5.0	11/27/18 01:50	
EPA 6010	Cobalt	1.2 I	ug/L	10.0	11/27/18 01:50	
EPA 6010	Iron	3060	ug/L	40.0	11/27/18 01:50	
EPA 6010	Nickel	2.8 I	ug/L	5.0	11/27/18 01:50	
EPA 6010	Sodium	56.0	mg/L	2.0	11/27/18 01:50	
EPA 6010	Vanadium	7.1 I	ug/L	10.0	11/27/18 01:50	
EPA 6020	Arsenic	5.8	ug/L	1.0	11/28/18 11:12	
SM 2540C	Total Dissolved Solids	539	mg/L	5.0	11/16/18 13:45	
EPA 300.0	Chloride	36.4	mg/L	10.0	11/18/18 17:24	
EPA 350.1	Nitrogen, Ammonia	0.41	mg/L	0.25	11/13/18 12:04	
35430329005	**B33-2 DUP**					
	Field pH	6.51	Std. Units		11/12/18 11:55	
	Field Temperature	24.6	deg C		11/12/18 11:55	
	Appearance	Color: yellow, Sheen: none			11/12/18 11:55	
	Field Specific Conductance	811	umhos/cm		11/12/18 11:55	
	Oxygen, Dissolved	2.80	mg/L		11/12/18 11:55	
	REDOX	38.6	mV		11/12/18 11:55	
	Turbidity	15.69	NTU		11/12/18 11:55	
	Water Level(NGVD)	28.62	feet		11/12/18 11:55	
EPA 6010	Barium	65.8	ug/L	10.0	11/27/18 01:53	
EPA 6010	Chromium	2.4 I	ug/L	5.0	11/27/18 01:53	
EPA 6010	Iron	2460	ug/L	40.0	11/27/18 01:53	
EPA 6010	Sodium	55.0	mg/L	2.0	11/27/18 01:53	
EPA 6010	Vanadium	7.0 I	ug/L	10.0	11/27/18 01:53	
EPA 6020	Antimony	0.60 I	ug/L	1.0	11/28/18 11:40	
EPA 6020	Arsenic	5.7	ug/L	1.0	11/28/18 11:40	
SM 2540C	Total Dissolved Solids	480	mg/L	5.0	11/16/18 13:45	
EPA 300.0	Chloride	38.2	mg/L	10.0	11/18/18 18:30	
EPA 350.1	Nitrogen, Ammonia	0.27	mg/L	0.050	11/13/18 12:05	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: EQ Blank 11/12/18 **Lab ID: 35430329001** Collected: 11/12/18 08:40 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/20/18 10:30	11/20/18 23:52	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/20/18 10:30	11/20/18 23:52	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**4.0 I**	ug/L	10.0	0.84	1	11/26/18 12:04	11/27/18 01:36	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/26/18 12:04	11/27/18 01:36	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/26/18 12:04	11/27/18 01:36	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/26/18 12:04	11/27/18 01:36	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/26/18 12:04	11/27/18 01:36	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/26/18 12:04	11/27/18 01:36	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	11/26/18 12:04	11/27/18 01:36	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/26/18 12:04	11/27/18 01:36	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/26/18 12:04	11/27/18 01:36	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/26/18 12:04	11/27/18 01:36	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/26/18 12:04	11/27/18 01:36	7440-22-4	
Sodium	**0.27 U**	mg/L	2.0	0.27	1	11/26/18 12:04	11/27/18 01:36	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/26/18 12:04	11/27/18 01:36	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/26/18 12:04	11/27/18 01:36	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:08	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:08	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 15:55	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/21/18 14:13	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:13	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/21/18 14:13	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/21/18 14:13	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/21/18 14:13	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:13	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:13	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/21/18 14:13	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/21/18 14:13	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/21/18 14:13	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/21/18 14:13	124-48-1	J(L1)
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/21/18 14:13	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: EQ Blank 11/12/18 **Lab ID: 35430329001** Collected: 11/12/18 08:40 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:13	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/21/18 14:13	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/21/18 14:13	10061-02-6	J(L1)
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:13	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/21/18 14:13	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/21/18 14:13	75-09-2	J(L1)
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:13	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/21/18 14:13	79-34-5	J(L1)
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/21/18 14:13	96-18-4	J(L1)
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/21/18 14:13	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:13	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/21/18 14:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/21/18 14:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		11/21/18 14:13	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/21/18 14:13	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		11/16/18 13:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5 U**	mg/L	5.0	2.5	1		11/18/18 06:22	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/13/18 11:58	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/13/18 07:43	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B64 **Lab ID: 35430329002** Collected: 11/12/18 09:02 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.07**	Std. Units			1		11/12/18 09:02		
Field Temperature	**23.9**	deg C			1		11/12/18 09:02		
Appearance	**Color:yellow, Sheen: none**				1		11/12/18 09:02		
Field Specific Conductance	**694**	umhos/cm			1		11/12/18 09:02		
Oxygen, Dissolved	**1.33**	mg/L			1		11/12/18 09:02	7782-44-7	
REDOX	**-49.6**	mV			1		11/12/18 09:02		
Turbidity	**13.12**	NTU			1		11/12/18 09:02		
Water Level(NGVD)	**26.82**	feet			1		11/12/18 09:02		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/20/18 10:30	11/21/18 00:21	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/20/18 10:30	11/21/18 00:21	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**98.1**	ug/L	10.0	0.84	1	11/26/18 12:04	11/27/18 01:45	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/26/18 12:04	11/27/18 01:45	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/26/18 12:04	11/27/18 01:45	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/26/18 12:04	11/27/18 01:45	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/26/18 12:04	11/27/18 01:45	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/26/18 12:04	11/27/18 01:45	7440-50-8	
Iron	**23900**	ug/L	40.0	9.2	1	11/26/18 12:04	11/27/18 01:45	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/26/18 12:04	11/27/18 01:45	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/26/18 12:04	11/27/18 01:45	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/26/18 12:04	11/27/18 01:45	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/26/18 12:04	11/27/18 01:45	7440-22-4	
Sodium	**28.8**	mg/L	2.0	0.27	1	11/26/18 12:04	11/27/18 01:45	7440-23-5	
Vanadium	**2.3 I**	ug/L	10.0	1.0	1	11/26/18 12:04	11/27/18 01:45	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/26/18 12:04	11/27/18 01:45	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:09	7440-36-0	
Arsenic	**3.6**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:09	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 15:57	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/21/18 14:37	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:37	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/21/18 14:37	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/21/18 14:37	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B64 **Lab ID: 35430329002** Collected: 11/12/18 09:02 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/21/18 14:37	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:37	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:37	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/21/18 14:37	56-23-5	
Chlorobenzene	**2.1**	ug/L	1.0	0.50	1		11/21/18 14:37	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/21/18 14:37	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/21/18 14:37	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/21/18 14:37	124-48-1	J(L1)
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/21/18 14:37	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:37	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/21/18 14:37	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/21/18 14:37	10061-02-6	J(L1)
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:37	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/21/18 14:37	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/21/18 14:37	75-09-2	J(L1)
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 14:37	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/21/18 14:37	79-34-5	J(L1)
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/21/18 14:37	96-18-4	J(L1)
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/21/18 14:37	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 14:37	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/21/18 14:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/21/18 14:37	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		11/21/18 14:37	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/21/18 14:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B64 **Lab ID: 35430329002** Collected: 11/12/18 09:02 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**442**	mg/L	5.0	5.0	1		11/16/18 13:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**20.9**	mg/L	5.0	2.5	1		11/18/18 16:40	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.6**	mg/L	0.050	0.035	1		11/13/18 12:00	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/13/18 07:44	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B8-2 **Lab ID: 35430329003** Collected: 11/12/18 10:13 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.02**	Std. Units			1		11/12/18 10:13		
Field Temperature	**26.0**	deg C			1		11/12/18 10:13		
Field Specific Conductance	**1802**	umhos/cm			1		11/12/18 10:13		
Oxygen, Dissolved	**1.66**	mg/L			1		11/12/18 10:13	7782-44-7	
REDOX	**22.9**	mV			1		11/12/18 10:13		
Turbidity	**116.74**	NTU			1		11/12/18 10:13		
Water Level(NGVD)	**27.69**	feet			1		11/12/18 10:13		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/20/18 10:30	11/21/18 00:36	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/20/18 10:30	11/21/18 00:36	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**406**	ug/L	10.0	0.84	1	11/26/18 12:04	11/27/18 01:48	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/26/18 12:04	11/27/18 01:48	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/26/18 12:04	11/27/18 01:48	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/26/18 12:04	11/27/18 01:48	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/26/18 12:04	11/27/18 01:48	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/26/18 12:04	11/27/18 01:48	7440-50-8	
Iron	**57600**	ug/L	400	92.0	10	11/26/18 12:04	11/27/18 11:29	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/26/18 12:04	11/27/18 01:48	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/26/18 12:04	11/27/18 01:48	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/26/18 12:04	11/27/18 01:48	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/26/18 12:04	11/27/18 01:48	7440-22-4	
Sodium	**104**	mg/L	2.0	0.27	1	11/26/18 12:04	11/27/18 01:48	7440-23-5	
Vanadium	**32.1**	ug/L	10.0	1.0	1	11/26/18 12:04	11/27/18 01:48	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/26/18 12:04	11/27/18 01:48	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:11	7440-36-0	
Arsenic	**0.77 I**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:11	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 15:59	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/21/18 15:01	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:01	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/21/18 15:01	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/21/18 15:01	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/21/18 15:01	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:01	78-93-3	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B8-2 **Lab ID: 35430329003** Collected: 11/12/18 10:13 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:01	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/21/18 15:01	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/21/18 15:01	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/21/18 15:01	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/21/18 15:01	124-48-1	J(L1)
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/21/18 15:01	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:01	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/21/18 15:01	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/21/18 15:01	10061-02-6	J(L1)
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:01	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/21/18 15:01	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/21/18 15:01	75-09-2	J(L1)
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:01	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/21/18 15:01	79-34-5	J(L1)
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/21/18 15:01	96-18-4	J(L1)
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/21/18 15:01	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:01	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/21/18 15:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/21/18 15:01	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		11/21/18 15:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/21/18 15:01	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1100**	mg/L	10.0	10.0	1		11/16/18 13:45		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B8-2 **Lab ID: 35430329003** Collected: 11/12/18 10:13 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**552**	mg/L	50.0	25.0	10		11/18/18 17:02	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.16**	mg/L	0.050	0.035	1		11/13/18 12:02	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/13/18 07:49	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B33-2 **Lab ID: 35430329004** Collected: 11/12/18 11:55 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.51**	Std. Units			1		11/12/18 11:55		
Field Temperature	**24.6**	deg C			1		11/12/18 11:55		
Appearance	**Color: yellow, Sheen: none**				1		11/12/18 11:55		
Field Specific Conductance	**811**	umhos/cm			1		11/12/18 11:55		
Oxygen, Dissolved	**2.80**	mg/L			1		11/12/18 11:55	7782-44-7	
REDOX	**38.6**	mV			1		11/12/18 11:55		
Turbidity	**15.69**	NTU			1		11/12/18 11:55		
Water Level(NGVD)	**28.62**	feet			1		11/12/18 11:55		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/20/18 10:30	11/21/18 00:51	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/20/18 10:30	11/21/18 00:51	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**66.1**	ug/L	10.0	0.84	1	11/26/18 12:04	11/27/18 01:50	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/26/18 12:04	11/27/18 01:50	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/26/18 12:04	11/27/18 01:50	7440-43-9	
Chromium	**3.1 I**	ug/L	5.0	1.7	1	11/26/18 12:04	11/27/18 01:50	7440-47-3	
Cobalt	**1.2 I**	ug/L	10.0	0.96	1	11/26/18 12:04	11/27/18 01:50	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/26/18 12:04	11/27/18 01:50	7440-50-8	
Iron	**3060**	ug/L	40.0	9.2	1	11/26/18 12:04	11/27/18 01:50	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/26/18 12:04	11/27/18 01:50	7439-92-1	
Nickel	**2.8 I**	ug/L	5.0	2.1	1	11/26/18 12:04	11/27/18 01:50	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/26/18 12:04	11/27/18 01:50	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/26/18 12:04	11/27/18 01:50	7440-22-4	
Sodium	**56.0**	mg/L	2.0	0.27	1	11/26/18 12:04	11/27/18 01:50	7440-23-5	
Vanadium	**7.1 I**	ug/L	10.0	1.0	1	11/26/18 12:04	11/27/18 01:50	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/26/18 12:04	11/27/18 01:50	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:12	7440-36-0	
Arsenic	**5.8**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:12	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 16:01	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/21/18 15:26	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:26	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/21/18 15:26	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/21/18 15:26	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B33-2 **Lab ID: 35430329004** Collected: 11/12/18 11:55 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/21/18 15:26	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:26	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:26	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/21/18 15:26	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/21/18 15:26	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/21/18 15:26	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/21/18 15:26	124-48-1	J(L1)
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/21/18 15:26	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:26	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/21/18 15:26	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/21/18 15:26	10061-02-6	J(L1)
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:26	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/21/18 15:26	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/21/18 15:26	75-09-2	J(L1)
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:26	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/21/18 15:26	79-34-5	J(L1)
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/21/18 15:26	96-18-4	J(L1)
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/21/18 15:26	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:26	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/21/18 15:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/21/18 15:26	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		11/21/18 15:26	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/21/18 15:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B33-2 **Lab ID: 35430329004** Collected: 11/12/18 11:55 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**539**	mg/L	5.0	5.0	1		11/16/18 13:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**36.4**	mg/L	10.0	5.0	2		11/18/18 17:24	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.41**	mg/L	0.25	0.17	5		11/13/18 12:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/13/18 07:58	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B33-2 DUP **Lab ID: 35430329005** Collected: 11/12/18 11:55 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.51**	Std. Units			1		11/12/18 11:55		
Field Temperature	**24.6**	deg C			1		11/12/18 11:55		
Appearance	**Color: yellow, Sheen: none**				1		11/12/18 11:55		
Field Specific Conductance	**811**	umhos/cm			1		11/12/18 11:55		
Oxygen, Dissolved	**2.80**	mg/L			1		11/12/18 11:55	7782-44-7	
REDOX	**38.6**	mV			1		11/12/18 11:55		
Turbidity	**15.69**	NTU			1		11/12/18 11:55		
Water Level(NGVD)	**28.62**	feet			1		11/12/18 11:55		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/20/18 10:30	11/21/18 01:05	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/20/18 10:30	11/21/18 01:05	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**65.8**	ug/L	10.0	0.84	1	11/26/18 12:04	11/27/18 01:53	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/26/18 12:04	11/27/18 01:53	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/26/18 12:04	11/27/18 01:53	7440-43-9	
Chromium	**2.4 I**	ug/L	5.0	1.7	1	11/26/18 12:04	11/27/18 01:53	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/26/18 12:04	11/27/18 01:53	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/26/18 12:04	11/27/18 01:53	7440-50-8	
Iron	**2460**	ug/L	40.0	9.2	1	11/26/18 12:04	11/27/18 01:53	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/26/18 12:04	11/27/18 01:53	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/26/18 12:04	11/27/18 01:53	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/26/18 12:04	11/27/18 01:53	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/26/18 12:04	11/27/18 01:53	7440-22-4	
Sodium	**55.0**	mg/L	2.0	0.27	1	11/26/18 12:04	11/27/18 01:53	7440-23-5	
Vanadium	**7.0 I**	ug/L	10.0	1.0	1	11/26/18 12:04	11/27/18 01:53	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/26/18 12:04	11/27/18 01:53	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.60 I**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:40	7440-36-0	
Arsenic	**5.7**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:40	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/26/18 12:04	11/28/18 11:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 16:03	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/21/18 15:50	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:50	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/21/18 15:50	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/21/18 15:50	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B33-2 DUP **Lab ID: 35430329005** Collected: 11/12/18 11:55 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/21/18 15:50	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:50	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:50	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/21/18 15:50	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/21/18 15:50	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/21/18 15:50	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/21/18 15:50	124-48-1	J(L1)
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/21/18 15:50	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:50	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/21/18 15:50	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/21/18 15:50	10061-02-6	J(L1)
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:50	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/21/18 15:50	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/21/18 15:50	75-09-2	J(L1)
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/21/18 15:50	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/21/18 15:50	79-34-5	J(L1)
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/21/18 15:50	96-18-4	J(L1)
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/21/18 15:50	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/21/18 15:50	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/21/18 15:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/21/18 15:50	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/21/18 15:50	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/21/18 15:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Sample: B33-2 DUP **Lab ID: 35430329005** Collected: 11/12/18 11:55 Received: 11/12/18 13:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**480**	mg/L	5.0	5.0	1		11/16/18 13:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**38.2**	mg/L	10.0	5.0	2		11/18/18 18:30	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.27**	mg/L	0.050	0.035	1		11/13/18 12:05	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/13/18 08:00	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

QC Batch: 495652 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

METHOD BLANK: 2680921 Matrix: Water
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/27/18 15:10	

LABORATORY CONTROL SAMPLE: 2680922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.2	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2680923 2680924

Parameter	Units	35429503003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.0	2.0	100	98	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

QC Batch: 496147 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

METHOD BLANK: 2683271 Matrix: Water
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/27/18 00:59	
Beryllium	ug/L	1.6 U	4.0	1.6	11/27/18 00:59	
Cadmium	ug/L	0.33 U	1.0	0.33	11/27/18 00:59	
Chromium	ug/L	1.7 U	5.0	1.7	11/27/18 00:59	
Cobalt	ug/L	0.96 U	10.0	0.96	11/27/18 00:59	
Copper	ug/L	2.6 U	5.0	2.6	11/27/18 00:59	
Iron	ug/L	9.2 U	40.0	9.2	11/27/18 00:59	
Lead	ug/L	4.6 U	10.0	4.6	11/27/18 00:59	
Nickel	ug/L	2.1 U	5.0	2.1	11/27/18 00:59	
Selenium	ug/L	8.5 U	15.0	8.5	11/27/18 00:59	
Silver	ug/L	1.0 U	5.0	1.0	11/27/18 00:59	
Sodium	mg/L	0.27 U	2.0	0.27	11/27/18 00:59	
Vanadium	ug/L	1.0 U	10.0	1.0	11/27/18 00:59	
Zinc	ug/L	11.0 U	20.0	11.0	11/27/18 00:59	

LABORATORY CONTROL SAMPLE: 2683272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	240	96	80-120	
Beryllium	ug/L	25	23.6	94	80-120	
Cadmium	ug/L	25	24.5	98	80-120	
Chromium	ug/L	250	246	98	80-120	
Cobalt	ug/L	250	244	97	80-120	
Copper	ug/L	250	231	92	80-120	
Iron	ug/L	2500	2450	98	80-120	
Lead	ug/L	250	249	99	80-120	
Nickel	ug/L	250	248	99	80-120	
Selenium	ug/L	250	237	95	80-120	
Silver	ug/L	25	23.6	94	80-120	
Sodium	mg/L	12.5	11.9	95	80-120	
Vanadium	ug/L	250	240	96	80-120	
Zinc	ug/L	1250	1230	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683273 2683274

Parameter	Units	35429043001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	62.0	250	250	309	309	99	99	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683273 2683274

Parameter	Units	35429043001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	ug/L	1.6 U	25	25	23.5	23.5	94	94	75-125	0	20	
Cadmium	ug/L	0.33 U	25	25	24.7	24.8	98	99	75-125	0	20	
Chromium	ug/L	1.7 U	250	250	253	253	101	101	75-125	0	20	
Cobalt	ug/L	1.5 I	250	250	251	252	100	100	75-125	0	20	
Copper	ug/L	2.6 U	250	250	245	245	98	98	75-125	0	20	
Iron	ug/L	13200	2500	2500	15800	15900	107	108	75-125	0	20	
Lead	ug/L	4.6 U	250	250	248	249	99	99	75-125	0	20	
Nickel	ug/L	2.1 U	250	250	255	256	101	102	75-125	0	20	
Selenium	ug/L	8.5 U	250	250	241	243	96	96	75-125	1	20	
Silver	ug/L	1.0 U	25	25	24.6	24.6	98	98	75-125	0	20	
Sodium	mg/L	65.7	12.5	12.5	79.4	79.1	109	107	75-125	0	20	
Vanadium	ug/L	10.1	250	250	260	259	100	100	75-125	0	20	
Zinc	ug/L	11.0 U	1250	1250	1220	1230	98	98	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

QC Batch: 496150 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

METHOD BLANK: 2683282 Matrix: Water
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/28/18 10:27	
Arsenic	ug/L	0.50 U	1.0	0.50	11/28/18 10:45	
Thallium	ug/L	0.50 U	1.0	0.50	11/28/18 10:45	

LABORATORY CONTROL SAMPLE: 2683284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	51.0	102	80-120	
Arsenic	ug/L	50	50.3	101	80-120	
Thallium	ug/L	50	51.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683285 2683286

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	49.8	50.0	99	100	75-125	1	20	
Arsenic	ug/L	0.58 I	50	50	51.1	49.5	101	98	75-125	3	20	
Thallium	ug/L	0.50 U	50	50	50.6	51.8	101	104	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

QC Batch: 495547 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

METHOD BLANK: 2680616 Matrix: Water
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/21/18 08:48	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/21/18 08:48	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
Acetone	ug/L	10.0 U	20.0	10.0	11/21/18 08:48	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
Benzene	ug/L	0.10 U	1.0	0.10	11/21/18 08:48	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/21/18 08:48	
Bromoform	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/21/18 08:48	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/21/18 08:48	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/21/18 08:48	
Chloroform	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/21/18 08:48	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/21/18 08:48	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/21/18 08:48	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/21/18 08:48	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/21/18 08:48	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/21/18 08:48	
Styrene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Toluene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/21/18 08:48	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

METHOD BLANK: 2680616 Matrix: Water
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/21/18 08:48	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	11/21/18 08:48	
1,2-Dichloroethane-d4 (S)	%	104	70-130		11/21/18 08:48	
4-Bromofluorobenzene (S)	%	96	70-130		11/21/18 08:48	
Toluene-d8 (S)	%	100	70-130		11/21/18 08:48	

LABORATORY CONTROL SAMPLE: 2680617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	24.5	123	70-130	
1,1,1-Trichloroethane	ug/L	20	22.6	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	25.2	126	68-125	J(L1)
1,1,2-Trichloroethane	ug/L	20	24.5	123	70-130	
1,1-Dichloroethane	ug/L	20	23.0	115	70-130	
1,1-Dichloroethene	ug/L	20	22.0	110	66-133	
1,2,3-Trichloropropane	ug/L	20	25.9	130	62-127	J(L1)
1,2-Dichlorobenzene	ug/L	20	24.0	120	70-130	
1,2-Dichloroethane	ug/L	20	22.0	110	70-130	
1,2-Dichloropropane	ug/L	20	23.2	116	70-130	
1,4-Dichlorobenzene	ug/L	20	23.3	117	70-130	
2-Butanone (MEK)	ug/L	40	38.9	97	47-143	
2-Hexanone	ug/L	40	42.8	107	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	42.0	105	57-132	
Acetone	ug/L	40	45.5	114	46-148	
Acrylonitrile	ug/L	200	188	94	60-143	
Benzene	ug/L	20	23.4	117	70-130	
Bromochloromethane	ug/L	20	22.3	111	70-130	
Bromodichloromethane	ug/L	20	22.0	110	70-130	
Bromoform	ug/L	20	23.1	116	49-126	
Bromomethane	ug/L	20	19.9	100	10-165	
Carbon disulfide	ug/L	20	18.6	93	60-141	
Carbon tetrachloride	ug/L	20	22.5	112	63-126	
Chlorobenzene	ug/L	20	23.2	116	70-130	
Chloroethane	ug/L	20	14.9	75	71-142	
Chloroform	ug/L	20	22.6	113	70-130	
Chloromethane	ug/L	20	14.4	72	40-140	
cis-1,2-Dichloroethene	ug/L	20	22.1	111	70-130	
cis-1,3-Dichloropropene	ug/L	20	23.9	120	70-130	
Dibromochloromethane	ug/L	20	24.0	120	62-118	J(L1)
Dibromomethane	ug/L	20	23.1	116	70-130	
Ethylbenzene	ug/L	20	24.1	121	70-130	
Iodomethane	ug/L	40	34.3	86	10-164	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

LABORATORY CONTROL SAMPLE: 2680617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	27.4	137	65-136	J(L1)
Styrene	ug/L	20	24.5	123	70-130	
Tetrachloroethene	ug/L	20	21.4	107	64-134	
Toluene	ug/L	20	24.3	122	70-130	
trans-1,2-Dichloroethene	ug/L	20	23.1	115	68-127	
trans-1,3-Dichloropropene	ug/L	20	25.3	126	65-121	J(L1)
trans-1,4-Dichloro-2-butene	ug/L	20	21.2	106	42-129	
Trichloroethene	ug/L	20	21.7	108	70-130	
Trichlorofluoromethane	ug/L	20	14.1	71	65-135	
Vinyl acetate	ug/L	20	23.5	117	60-144	
Vinyl chloride	ug/L	20	14.6	73	68-131	
Xylene (Total)	ug/L	60	73.8	123	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2682398

Parameter	Units	35430601002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	20	23.7	119	70-130	
1,1,1-Trichloroethane	ug/L	<0.50	20	23.4	117	70-130	
1,1,2,2-Tetrachloroethane	ug/L	<0.12	20	25.8	129	68-125	J(M0)
1,1,2-Trichloroethane	ug/L	<0.50	20	24.3	122	70-130	
1,1-Dichloroethane	ug/L	<0.50	20	23.3	117	70-130	
1,1-Dichloroethene	ug/L	<0.50	20	23.2	116	66-133	
1,2,3-Trichloropropane	ug/L	<0.59	20	23.1	115	62-127	
1,2-Dichlorobenzene	ug/L	<0.50	20	23.2	116	70-130	
1,2-Dichloroethane	ug/L	<0.50	20	22.0	110	70-130	
1,2-Dichloropropane	ug/L	<0.50	20	22.8	114	70-130	
1,4-Dichlorobenzene	ug/L	<0.50	20	22.3	111	70-130	
2-Butanone (MEK)	ug/L	<5.0	40	34.7	87	47-143	
2-Hexanone	ug/L	<5.0	40	39.9	100	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	40	38.0	95	57-132	
Acetone	ug/L	<10.0	40	40.6	101	46-148	
Acrylonitrile	ug/L	<5.0	200	185	93	60-143	
Benzene	ug/L	<0.10	20	23.3	116	70-130	
Bromochloromethane	ug/L	<0.50	20	21.9	109	70-130	
Bromodichloromethane	ug/L	<0.27	20	21.7	108	70-130	
Bromoform	ug/L	<0.50	20	20.7	104	49-126	
Bromomethane	ug/L	<0.50	20	7.7	38	10-165	
Carbon disulfide	ug/L	<5.0	20	17.0	85	60-141	
Carbon tetrachloride	ug/L	<0.50	20	22.7	113	63-126	
Chlorobenzene	ug/L	<0.50	20	22.4	112	70-130	
Chloroethane	ug/L	<0.50	20	21.4	107	71-142	
Chloroform	ug/L	<0.50	20	22.5	113	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

MATRIX SPIKE SAMPLE: 2682398

Parameter	Units	35430601002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	<0.62	20	16.8	84	40-140	
cis-1,2-Dichloroethene	ug/L	<0.50	20	22.1	111	70-130	
cis-1,3-Dichloropropene	ug/L	<0.25	20	21.3	106	70-130	
Dibromochloromethane	ug/L	<0.26	20	22.6	113	62-118	
Dibromomethane	ug/L	<0.50	20	21.6	108	70-130	
Ethylbenzene	ug/L	<0.50	20	23.6	118	70-130	
Iodomethane	ug/L	<0.50	40	7.5 I	19	10-164	
Methylene Chloride	ug/L	<2.5	20	25.3	126	65-136	
Styrene	ug/L	<0.50	20	23.6	118	70-130	
Tetrachloroethene	ug/L	<0.50	20	18.7	94	64-134	
Toluene	ug/L	<0.50	20	24.1	121	70-130	
trans-1,2-Dichloroethene	ug/L	<0.50	20	22.5	112	68-127	
trans-1,3-Dichloropropene	ug/L	<0.25	20	23.5	117	65-121	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	20	15.8	79	42-129	
Trichloroethene	ug/L	<0.50	20	20.9	104	70-130	
Trichlorofluoromethane	ug/L	<0.50	20	18.8	94	65-135	
Vinyl acetate	ug/L	<1.0	20	17.8	89	60-144	
Vinyl chloride	ug/L	<0.50	20	18.6	93	68-131	
Xylene (Total)	ug/L	<1.0	60	71.2	119	70-130	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2682397

Parameter	Units	35430601001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50 U		40	
1,1,1-Trichloroethane	ug/L	<0.50	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	<0.12	0.12 U		40	
1,1,2-Trichloroethane	ug/L	<0.50	0.50 U		40	
1,1-Dichloroethane	ug/L	<0.50	0.50 U		40	
1,1-Dichloroethene	ug/L	<0.50	0.50 U		40	
1,2,3-Trichloropropane	ug/L	<0.59	0.59 U		40	
1,2-Dichlorobenzene	ug/L	<0.50	0.50 U		40	
1,2-Dichloroethane	ug/L	<0.50	0.50 U		40	
1,2-Dichloropropane	ug/L	<0.50	0.50 U		40	
1,4-Dichlorobenzene	ug/L	<0.50	0.50 U		40	
2-Butanone (MEK)	ug/L	<5.0	5.0 U		40	
2-Hexanone	ug/L	<5.0	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0 U		40	
Acetone	ug/L	<10.0	10.0 U		40	
Acrylonitrile	ug/L	<5.0	5.0 U		40	
Benzene	ug/L	<0.10	0.10 U		40	
Bromochloromethane	ug/L	<0.50	0.50 U		40	
Bromodichloromethane	ug/L	<0.27	0.27 U		40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

SAMPLE DUPLICATE: 2682397

Parameter	Units	35430601001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	<0.50	0.50 U		40	
Bromomethane	ug/L	<0.50	0.50 U		40	
Carbon disulfide	ug/L	<5.0	5.0 U		40	
Carbon tetrachloride	ug/L	<0.50	0.50 U		40	
Chlorobenzene	ug/L	<0.50	0.50 U		40	
Chloroethane	ug/L	<0.50	0.50 U		40	
Chloroform	ug/L	<0.50	0.50 U		40	
Chloromethane	ug/L	<0.62	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	<0.25	0.25 U		40	
Dibromochloromethane	ug/L	<0.26	0.26 U		40	
Dibromomethane	ug/L	<0.50	0.50 U		40	
Ethylbenzene	ug/L	<0.50	0.50 U		40	
Iodomethane	ug/L	<0.50	0.50 U		40	
Methylene Chloride	ug/L	<2.5	2.5 U		40	
Styrene	ug/L	<0.50	0.50 U		40	
Tetrachloroethene	ug/L	<0.50	0.50 U		40	
Toluene	ug/L	<0.50	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	<0.25	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	5.0 U		40	
Trichloroethene	ug/L	<0.50	0.50 U		40	
Trichlorofluoromethane	ug/L	<0.50	0.50 U		40	
Vinyl acetate	ug/L	<1.0	1.0 U		40	
Vinyl chloride	ug/L	<0.50	0.50 U		40	
Xylene (Total)	ug/L	<1.0	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	105	106	1	40	
4-Bromofluorobenzene (S)	%	94	94	0	40	
Toluene-d8 (S)	%	99	100	2	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

QC Batch: 495068 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

METHOD BLANK: 2678119 Matrix: Water
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/20/18 23:23	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/20/18 23:23	

LABORATORY CONTROL SAMPLE: 2678120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.24	98	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	98	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2678515 2678516

Parameter	Units	35431833003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.53	0.53	121	122	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	.44	.44	0.54	0.54	123	123	60-140	0	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

QC Batch: 494331 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

METHOD BLANK: 2674111 Matrix: Water
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/16/18 13:44	

LABORATORY CONTROL SAMPLE: 2674112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	294	98	90-110	

SAMPLE DUPLICATE: 2674113

Parameter	Units	35429912001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0 U		5	

SAMPLE DUPLICATE: 2674114

Parameter	Units	35430226003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	441	440	0	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

QC Batch: 494708
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35430329001

METHOD BLANK: 2676319 Matrix: Water
Associated Lab Samples: 35430329001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/18/18 01:36	

LABORATORY CONTROL SAMPLE: 2676320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2676321 2676322

Parameter	Units	35428409001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	35.8	50	50	92.0	92.0	113	112	90-110	0	20	J(M1)

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

QC Batch: 494789 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35430329002, 35430329003, 35430329004, 35430329005

METHOD BLANK: 2676724 Matrix: Water
Associated Lab Samples: 35430329002, 35430329003, 35430329004, 35430329005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/18/18 12:38	

LABORATORY CONTROL SAMPLE: 2676725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2676726 2676727

Parameter	Units	35430377001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	51.4	250	250	300	302	100	100	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2676728 2676729

Parameter	Units	35431292003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28.8	50	50	81.9	80.7	106	104	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

QC Batch: 493109 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

METHOD BLANK: 2667367 Matrix: Water
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/13/18 11:36	

LABORATORY CONTROL SAMPLE: 2667368

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

MATRIX SPIKE SAMPLE: 2667370

Parameter	Units	35429909003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.3	1	3.3	101	90-110	

SAMPLE DUPLICATE: 2667369

Parameter	Units	35429909003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	2.3	2.3	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

QC Batch: 493113 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

METHOD BLANK: 2667375 Matrix: Water
Associated Lab Samples: 35430329001, 35430329002, 35430329003, 35430329004, 35430329005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/13/18 07:24	

SAMPLE DUPLICATE: 2667377

Parameter	Units	35430280005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.3	1.5	9	20	

SAMPLE DUPLICATE: 2667379

Parameter	Units	35430260001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.17	0.17	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

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.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

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.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M0)	Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35430329002	**B64**				
35430329003	**B8-2**				
35430329004	**B33-2**				
35430329005	**B33-2 DUP**				
35430329001	**EQ Blank 11/12/18**	EPA 8011	495068	EPA 8011	495324
35430329002	**B64**	EPA 8011	495068	EPA 8011	495324
35430329003	**B8-2**	EPA 8011	495068	EPA 8011	495324
35430329004	**B33-2**	EPA 8011	495068	EPA 8011	495324
35430329005	**B33-2 DUP**	EPA 8011	495068	EPA 8011	495324
35430329001	**EQ Blank 11/12/18**	EPA 3010	496147	EPA 6010	496236
35430329002	**B64**	EPA 3010	496147	EPA 6010	496236
35430329003	**B8-2**	EPA 3010	496147	EPA 6010	496236
35430329004	**B33-2**	EPA 3010	496147	EPA 6010	496236
35430329005	**B33-2 DUP**	EPA 3010	496147	EPA 6010	496236
35430329001	**EQ Blank 11/12/18**	EPA 3010	496150	EPA 6020	496237
35430329002	**B64**	EPA 3010	496150	EPA 6020	496237
35430329003	**B8-2**	EPA 3010	496150	EPA 6020	496237
35430329004	**B33-2**	EPA 3010	496150	EPA 6020	496237
35430329005	**B33-2 DUP**	EPA 3010	496150	EPA 6020	496237
35430329001	**EQ Blank 11/12/18**	EPA 7470	495652	EPA 7470	495770
35430329002	**B64**	EPA 7470	495652	EPA 7470	495770
35430329003	**B8-2**	EPA 7470	495652	EPA 7470	495770
35430329004	**B33-2**	EPA 7470	495652	EPA 7470	495770
35430329005	**B33-2 DUP**	EPA 7470	495652	EPA 7470	495770
35430329001	**EQ Blank 11/12/18**	EPA 8260	495547		
35430329002	**B64**	EPA 8260	495547		
35430329003	**B8-2**	EPA 8260	495547		
35430329004	**B33-2**	EPA 8260	495547		
35430329005	**B33-2 DUP**	EPA 8260	495547		
35430329001	**EQ Blank 11/12/18**	SM 2540C	494331		
35430329002	**B64**	SM 2540C	494331		
35430329003	**B8-2**	SM 2540C	494331		
35430329004	**B33-2**	SM 2540C	494331		
35430329005	**B33-2 DUP**	SM 2540C	494331		
35430329001	**EQ Blank 11/12/18**	EPA 300.0	494708		
35430329002	**B64**	EPA 300.0	494789		
35430329003	**B8-2**	EPA 300.0	494789		
35430329004	**B33-2**	EPA 300.0	494789		
35430329005	**B33-2 DUP**	EPA 300.0	494789		
35430329001	**EQ Blank 11/12/18**	EPA 350.1	493109		
35430329002	**B64**	EPA 350.1	493109		
35430329003	**B8-2**	EPA 350.1	493109		
35430329004	**B33-2**	EPA 350.1	493109		
35430329005	**B33-2 DUP**	EPA 350.1	493109		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MW's
Pace Project No.: 35430329

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35430329001	**EQ Blank 11/12/18**	EPA 353.2	493113		
35430329002	**B64**	EPA 353.2	493113		
35430329003	**B8-2**	EPA 353.2	493113		
35430329004	**B33-2**	EPA 353.2	493113		
35430329005	**B33-2 DUP**	EPA 353.2	493113		

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mu

WO# : 35430329

35430329

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Volusia County Solid Waste Management	Report To: Jennifer Stirk	Attention:	Regulatory Agency
Address: 1990 Tomoka Farms Road	Copy To:	Company Name:	
Port Orange, FL 32128		Address:	State / Location
Email: jstirk@volusia.org	Purchase Order #:	Pace Quote:	
Phone: (386)947-2952 Fax:	Project Name: Tomoka LF Semi-annual MWs	Pace Project Manager: jeff.baylor@pacelabs.com,	
Requested Due Date:	Project #:	Pace Profile #: 1590, Line 1	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS, NO3, CL	ammonia	Metals by 6010/6020/Hg	EDB 8011	8260 VOCs Full List	Trip Blank DO NOT OPEN -	Residual Chlorine (Y/N)
1	EQ					11-12-15	1410												X	X	X	X	X	X		
2	B64					11-12-15	902																			
3	B8-2					11-12-15	10:13																			
4	B33-2					11-12-15	11:55																			
5	IDUP					11-12-15	11:55																			
6	TRIP BLANK					11-12-15	0000																			
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)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
RAIN OUT		11-12-15	13:20		11-12-15	13:20	5.8	Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Bruce Foster

SIGNATURE of SAMPLER:

DATE Signed: 11-12-15

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

(CUR)

WO#: 35430329

Project #
Project Manager: PM: JSB **Due Date:** 11/28/18
Client: CLIENT: VOLDPW

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

Thermometer Used: T33B Date: 11/12/18 Time: 1320 Initials: JCM

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

Cooler #1 Temp.°C	5.8 (Visual)	0 (Correction Factor)	5.8 (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	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ 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	☑ Yes ☐ No ☐ N/A	
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☐ Yes ☑ No ☐ N/A	On COC but not in cooler

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

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi-Annual
WELL NO: EQ	SAMPLE ID: EQ	DATE: 11-12-13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 44 feet to 64 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: P

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (17.64 feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 8:40	SAMPLING ENDED AT: 8:50
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	HCl			TDS Cl SO4	APP	400
	1	PE	250	HNO3			METALS 6010/6020		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	TCL			8011		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: TOMOKA LF SEMI ANNUAL	
WELL NO: B-64	SAMPLE ID: B64	DATE: 11-12-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 64 feet	STATIC DEPTH TO WATER (feet): 1.54	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (17.64 feet – 1.54 feet) X 0.16 gallons/foot = 2.576 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4	PURGING INITIATED AT: 8:45	PURGING ENDED AT: 9:02	TOTAL VOLUME PURGED (gallons): 4.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:56	2.75	2.75	.25	3:27	6.04	23.9	694	1.57	17.88	Tan/Brown	Sulfur
8:59	.75	3.50	.25	3:27	6.06	23.90	694	1.54	15.23	"	"
9:02	.75	4.25	.25	3:27	6.07	23.9	694	1.33	13.12	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:02	SAMPLING ENDED AT: 9:08
PUMP OR TUBING DEPTH IN WELL (feet): 4	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	Ice		6.07	TDS Cl SO4	A/I	2400
	1	PE	250	H2O3			METALS 6010/6020	|	|
	1	PE	250	H2SO4			Ammonia	|	|
	3	CG	40	HCL			8260	|	|
	2	CG	40	ICE			8011	|	|

REMARKS:
ORP -40.4 -45.2 -49.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200.2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF SEMI ANNUAL	
WELL NO: BB-2	SAMPLE ID: BB-2	DATE: 11-12-14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 33 feet to 2 feet	STATIC DEPTH TO WATER (feet): 6.03	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (33.2 feet – 6.03 feet) X 0.16 gallons/foot = 4.3472 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 9:35	PURGING ENDED AT: 10:13	TOTAL VOLUME PURGED (gallons): 9.50

TIME (24)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:53	4.50	4.50	.25	7.34	5.24	26.4	1366	1.53	80.14		
9:58	1.25	5.75	.25	7.34	5.24	26.3	1366	1.31	68.24		
10:03	1.25	7.00	.25	7.38	5.08	26.0	1351	1.14	85.16		
10:08	1.25	8.25	.25	7.34	5.03	26.0	1704	1.12	53.15		
10:13	1.25	9.50	.25	7.39	5.02	26.0	1602	1.66	46.74		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:13	SAMPLING ENDED AT: 10:20
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		5.02	TDS & Cl 300	APP	200
	1	PE	250	HNO3			METALS 6010/6020	/	/
	1	PE	250	H2SO4			Ammonia	/	/
	3	CG	40	HCl			8260	/	/
	2	CG	40	ICE			8011	/	/

REMARKS:
ORP 381 29.6 ~~2.02~~ 20.2 2.13 22.9

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VOLUSIA COUNTY SOLID WASTE	SITE LOCATION: TOMOKA LF SEMIANNUAL
WELL NO: B-33-2/DUP	SAMPLE ID: B33-2/DUP
	DATE: 11-12-15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 52 feet	STATIC DEPTH TO WATER (feet): 4.48	PURGE PUMP TYPE OR BAILER: P

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (17.52 feet – 4.48 feet) X 0.16 gallons/foot = 2.0864 gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 11:40	PURGING ENDED AT: 11:55	TOTAL VOLUME PURGED (gallons): 3.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:49	2.25	2.25	.25	7.33	6.48	24.6	803	2.62	19.2	yellow	sulfer
11:52	.75	3.00	.25	7.33	6.50	24.6	804	2.77	15.77	1	1
11:55	.75	3.75	.25	7.33	6.51	24.6	811	2.80	15.69	1	1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BRUCE FOSTER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:55	SAMPLING ENDED AT: 12:03
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE, S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) N B-1	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.51	TDS Cl SO4	APP	2400
	1	PE	250	HNO3			METALS COLOR	/	/
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	ICE			8011		

REMARKS: 35.9 38.5 38.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 30, 2018

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Dear Ms. Stirk:
Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, Volusia County Solid Waste Man

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35430704001	**EQ Blank 11/13/18**	Water	11/13/18 08:30	11/13/18 16:40
35430704002	**B34-1**	Water	11/13/18 09:30	11/13/18 16:40
35430704003	**B34-2**	Water	11/13/18 09:58	11/13/18 16:40
35430704004	**B-11**	Water	11/13/18 10:40	11/13/18 16:40
35430704005	**B5**	Water	11/13/18 11:35	11/13/18 16:40
35430704006	**B-5 DUP**	Water	11/13/18 11:35	11/13/18 16:40
35430704009	**B33-1**	Water	11/13/18 13:57	11/13/18 16:40
35430704010	**B37-2**	Water	11/13/18 14:46	11/13/18 16:40
35430704011	**B37-1**	Water	11/13/18 15:31	11/13/18 16:40
35430704012	**Trip Blank 11/13/18**	Water	11/13/18 00:00	11/13/18 16:40

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35430704001	**EQ Blank 11/13/18**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430704002	**B34-1**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430704003	**B34-2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430704004	**B-11**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430704005	**B5**	EPA 8011	SMH	2	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430704006	**B-5 DUP**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430704009	**B33-1**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430704010	**B37-2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430704011	**B37-1**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP, LEC	14	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	SA1	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35430704012	**Trip Blank 11/13/18**	EPA 8260	SK1	50	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35430704001	**EQ Blank 11/13/18**					
EPA 6010	Barium	6.1 I	ug/L	10.0	11/29/18 18:44	
35430704002	**B34-1**					
	Field pH	6.65	Std. Units		11/13/18 09:30	
	Field Temperature	22.8	deg C		11/13/18 09:30	
	Appearance	Color: yellow, Sheen: none			11/13/18 09:30	
	Field Specific Conductance	1542	umhos/cm		11/13/18 09:30	
	Oxygen, Dissolved	0.59	mg/L		11/13/18 09:30	
	REDOX	-71.9	mV		11/13/18 09:30	
	Turbidity	10.27	NTU		11/13/18 09:30	
	Water Level(NGVD)	28.59	feet		11/13/18 09:30	
EPA 6010	Barium	179	ug/L	10.0	11/29/18 18:47	
EPA 6010	Iron	36800	ug/L	40.0	11/29/18 18:47	
EPA 6010	Nickel	2.7 I	ug/L	5.0	11/29/18 18:47	
EPA 6010	Sodium	40.9	mg/L	2.0	11/29/18 18:47	
EPA 6010	Vanadium	1.1 I	ug/L	10.0	11/29/18 18:47	
EPA 6020	Arsenic	1.7	ug/L	1.0	11/28/18 20:17	
SM 2540C	Total Dissolved Solids	974	mg/L	10.0	11/20/18 17:20	
EPA 300.0	Chloride	60.1	mg/L	25.0	11/20/18 21:45	
EPA 350.1	Nitrogen, Ammonia	0.17	mg/L	0.050	11/14/18 11:48	
35430704003	**B34-2**					
	Field pH	6.92	Std. Units		11/13/18 09:58	
	Field Temperature	24.0	deg C		11/13/18 09:58	
	Appearance	Color: yellow, Sheen: none			11/13/18 09:58	
	Field Specific Conductance	1448	umhos/cm		11/13/18 09:58	
	Oxygen, Dissolved	0.17	mg/L		11/13/18 09:58	
	REDOX	-110.7	mV		11/13/18 09:58	
	Turbidity	15.27	NTU		11/13/18 09:58	
	Water Level(NGVD)	29.75	feet		11/13/18 09:58	
EPA 6010	Barium	74.9	ug/L	10.0	11/29/18 18:50	
EPA 6010	Iron	35900	ug/L	40.0	11/29/18 18:50	
EPA 6010	Nickel	10.2	ug/L	5.0	11/29/18 18:50	
EPA 6010	Sodium	27.3	mg/L	2.0	11/29/18 18:50	
EPA 6010	Vanadium	3.4 I	ug/L	10.0	11/29/18 18:50	
EPA 6020	Arsenic	5.9	ug/L	1.0	11/28/18 20:19	
SM 2540C	Total Dissolved Solids	878	mg/L	10.0	11/20/18 17:20	
EPA 300.0	Chloride	59.0	mg/L	25.0	11/20/18 22:07	
EPA 350.1	Nitrogen, Ammonia	1.6	mg/L	0.050	11/14/18 11:50	
EPA 353.2	Nitrogen, Nitrate	1.4	mg/L	0.050	11/14/18 11:08	
35430704004	**B-11**					
	Field pH	5.08	Std. Units		11/13/18 10:40	
	Field Temperature	26.9	deg C		11/13/18 10:40	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35430704004	**B-11**					
	Appearance	Color: yellow, Sheen: none			11/13/18 10:40	
	Field Specific Conductance	126	umhos/cm		11/13/18 10:40	
	Oxygen, Dissolved	0.33	mg/L		11/13/18 10:40	
	REDOX	26.6	mV		11/13/18 10:40	
	Turbidity	6.87	NTU		11/13/18 10:40	
	Water Level(NGVD)	29.31	feet		11/13/18 10:40	
EPA 6010	Barium	44.7	ug/L	10.0	11/29/18 18:53	
EPA 6010	Chromium	5.3	ug/L	5.0	11/29/18 18:53	
EPA 6010	Iron	2740	ug/L	40.0	11/29/18 18:53	
EPA 6010	Sodium	7.4	mg/L	2.0	11/29/18 18:53	
EPA 6010	Vanadium	22.1	ug/L	10.0	11/29/18 18:53	
SM 2540C	Total Dissolved Solids	76.0	mg/L	5.0	11/20/18 17:21	
EPA 300.0	Chloride	12.7	mg/L	5.0	11/20/18 22:30	
EPA 350.1	Nitrogen, Ammonia	0.60	mg/L	0.050	11/14/18 11:52	
EPA 353.2	Nitrogen, Nitrate	0.038 I	mg/L	0.050	11/14/18 11:10	
35430704005	**B5**					
	Field pH	6.88	Std. Units		11/13/18 11:35	
	Field Temperature	25.0	deg C		11/13/18 11:35	
	Appearance	Color: yellow, Sheen: none			11/13/18 11:35	
	Field Specific Conductance	631	umhos/cm		11/13/18 11:35	
	Oxygen, Dissolved	0.15	mg/L		11/13/18 11:35	
	REDOX	68.4	mV		11/13/18 11:35	
	Turbidity	138	NTU		11/13/18 11:35	
	Water Level(NGVD)	28.78	feet		11/13/18 11:35	
EPA 6010	Barium	69.3	ug/L	10.0	11/29/18 19:08	
EPA 6010	Iron	16000	ug/L	40.0	11/29/18 19:08	
EPA 6010	Sodium	24.4	mg/L	2.0	11/29/18 19:08	
EPA 6020	Arsenic	1.8	ug/L	1.0	11/28/18 20:22	
SM 2540C	Total Dissolved Solids	354	mg/L	5.0	11/20/18 17:21	
EPA 300.0	Chloride	9.7	mg/L	5.0	11/20/18 23:37	
EPA 350.1	Nitrogen, Ammonia	1.1	mg/L	0.050	11/14/18 11:54	
EPA 353.2	Nitrogen, Nitrate	0.83	mg/L	0.050	11/14/18 11:13	
35430704006	**B-5 DUP**					
	Field pH	6.88	Std. Units		11/13/18 11:35	
	Field Temperature	25.0	deg C		11/13/18 11:35	
	Appearance	Color: yellow, Sheen: none			11/13/18 11:35	
	Field Specific Conductance	631	umhos/cm		11/13/18 11:35	
	Oxygen, Dissolved	0.15	mg/L		11/13/18 11:35	
	REDOX	68.4	mV		11/13/18 11:35	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35430704006	**B-5 DUP**					
	Turbidity	138	NTU		11/13/18 11:35	
	Water Level(NGVD)	28.78	feet		11/13/18 11:35	
EPA 6010	Barium	69.8	ug/L	10.0	11/29/18 19:11	
EPA 6010	Iron	18000	ug/L	40.0	11/29/18 19:11	
EPA 6010	Sodium	23.6	mg/L	2.0	11/29/18 19:11	
EPA 6010	Vanadium	1.1 I	ug/L	10.0	11/29/18 19:11	
EPA 6020	Arsenic	2.4	ug/L	1.0	11/28/18 20:24	
SM 2540C	Total Dissolved Solids	373	mg/L	5.0	11/20/18 17:21	
EPA 300.0	Chloride	10.4	mg/L	5.0	11/20/18 23:59	
EPA 350.1	Nitrogen, Ammonia	1.0	mg/L	0.050	11/14/18 11:56	
35430704009	**B33-1**					
	Field pH	6.49	Std. Units		11/13/18 13:57	
	Field Temperature	24.9	deg C		11/13/18 13:57	
	Appearance	Color: yellow, Sheen: none			11/13/18 13:57	
	Field Specific Conductance	589	umhos/cm		11/13/18 13:57	
	Oxygen, Dissolved	0.11	mg/L		11/13/18 13:57	
	REDOX	-43.2	mV		11/13/18 13:57	
	Turbidity	4.82	NTU		11/13/18 13:57	
	Water Level(NGVD)	28.06	feet		11/13/18 13:57	
EPA 6010	Barium	37.3	ug/L	10.0	11/29/18 19:14	
EPA 6010	Chromium	2.1 I	ug/L	5.0	11/29/18 19:14	
EPA 6010	Iron	10100	ug/L	40.0	11/29/18 19:14	
EPA 6010	Sodium	53.8	mg/L	2.0	11/29/18 19:14	
EPA 6010	Vanadium	3.8 I	ug/L	10.0	11/29/18 19:14	
SM 2540C	Total Dissolved Solids	360	mg/L	5.0	11/20/18 17:21	
EPA 300.0	Chloride	55.9	mg/L	5.0	11/21/18 00:22	
EPA 350.1	Nitrogen, Ammonia	0.26	mg/L	0.050	11/14/18 12:05	
EPA 353.2	Nitrogen, Nitrate	0.029 I	mg/L	0.050	11/14/18 11:24	
35430704010	**B37-2**					
	Field pH	6.49	Std. Units		11/13/18 14:46	
	Field Temperature	24.5	deg C		11/13/18 14:46	
	Appearance	Color: yellow, Sheen: none			11/13/18 14:46	
	Field Specific Conductance	467.1	umhos/cm		11/13/18 14:46	
	Oxygen, Dissolved	0.29	mg/L		11/13/18 14:46	
	REDOX	34.2	mV		11/13/18 14:46	
	Turbidity	16.79	NTU		11/13/18 14:46	
	Water Level(NGVD)	28.01	feet		11/13/18 14:46	
EPA 6010	Barium	26.8	ug/L	10.0	11/29/18 19:17	
EPA 6010	Iron	8510	ug/L	40.0	11/29/18 19:17	
EPA 6010	Sodium	10	mg/L	2.0	11/29/18 19:17	
EPA 6010	Vanadium	2.5 I	ug/L	10.0	11/29/18 19:17	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35430704010	**B37-2**					
EPA 6020	Arsenic	3.5	ug/L	1.0	11/28/18 20:27	
SM 2540C	Total Dissolved Solids	285	mg/L	5.0	11/20/18 17:21	
EPA 300.0	Chloride	17.4	mg/L	5.0	11/21/18 01:29	
EPA 350.1	Nitrogen, Ammonia	0.49	mg/L	0.050	11/14/18 12:07	
EPA 353.2	Nitrogen, Nitrate	0.035 I	mg/L	0.050	11/14/18 11:25	
35430704011	**B37-1**					
	Field pH	6.69	Std. Units		11/13/18 15:31	
	Field Temperature	24.6	deg C		11/13/18 15:31	
	Appearance	Color: yellow, Sheen: none			11/13/18 15:31	
	Field Specific Conductance	1540	umhos/cm		11/13/18 15:31	
	Oxygen, Dissolved	0.14	mg/L		11/13/18 15:31	
	REDOX	-37.2	mV		11/13/18 15:31	
	Turbidity	184.7	NTU		11/13/18 15:31	
	Water Level(NGVD)	27.53	feet		11/13/18 15:31	
EPA 6010	Barium	235	ug/L	10.0	11/29/18 19:19	
EPA 6010	Cadmium	0.42 I	ug/L	1.0	11/29/18 19:19	
EPA 6010	Cobalt	2.0 I	ug/L	10.0	11/29/18 19:19	
EPA 6010	Iron	48600	ug/L	800	11/30/18 11:13	
EPA 6010	Nickel	2.4 I	ug/L	5.0	11/29/18 19:19	
EPA 6010	Sodium	191	mg/L	2.0	11/29/18 19:19	
EPA 6010	Vanadium	1.8 I	ug/L	10.0	11/29/18 19:19	
EPA 6020	Arsenic	0.50 I	ug/L	1.0	11/28/18 20:28	
EPA 8260	Benzene	5.9	ug/L	1.0	11/22/18 17:20	
EPA 8260	Chlorobenzene	4.9	ug/L	1.0	11/22/18 17:20	
EPA 8260	Toluene	1.1	ug/L	1.0	11/22/18 17:20	
EPA 8260	Xylene (Total)	4.3	ug/L	3.0	11/22/18 17:20	
SM 2540C	Total Dissolved Solids	1230	mg/L	10.0	11/20/18 17:21	
EPA 300.0	Chloride	213	mg/L	25.0	11/21/18 01:51	
EPA 350.1	Nitrogen, Ammonia	0.37	mg/L	0.050	11/14/18 12:09	
35430704012	**Trip Blank 11/13/18**					
EPA 8260	2-Butanone (MEK)	16.2	ug/L	10.0	11/22/18 17:44	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: EQ Blank 11/13/18 **Lab ID: 35430704001** Collected: 11/13/18 08:30 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/24/18 09:05	11/25/18 03:35	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/24/18 09:05	11/25/18 03:35	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**6.1 I**	ug/L	10.0	0.84	1	11/28/18 08:43	11/29/18 18:44	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/28/18 08:43	11/29/18 18:44	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/28/18 08:43	11/29/18 18:44	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/28/18 08:43	11/29/18 18:44	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/28/18 08:43	11/29/18 18:44	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/28/18 08:43	11/29/18 18:44	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	11/28/18 08:43	11/29/18 18:44	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/28/18 08:43	11/29/18 18:44	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/28/18 08:43	11/29/18 18:44	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/28/18 08:43	11/29/18 18:44	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/28/18 08:43	11/29/18 18:44	7440-22-4	
Sodium	**0.27 U**	mg/L	2.0	0.27	1	11/28/18 08:43	11/29/18 18:44	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/28/18 08:43	11/29/18 18:44	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/28/18 08:43	11/29/18 18:44	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:15	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:15	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/26/18 16:00	11/27/18 18:53	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/22/18 14:10	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:10	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/22/18 14:10	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/22/18 14:10	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/22/18 14:10	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:10	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:10	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/22/18 14:10	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 14:10	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/22/18 14:10	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/22/18 14:10	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/22/18 14:10	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: EQ Blank 11/13/18 **Lab ID: 35430704001** Collected: 11/13/18 08:30 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:10	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 14:10	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 14:10	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:10	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 14:10	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/22/18 14:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:10	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/22/18 14:10	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/22/18 14:10	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/22/18 14:10	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:10	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/22/18 14:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/22/18 14:10	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/22/18 14:10	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/22/18 14:10	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		11/20/18 17:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5 U**	mg/L	5.0	2.5	1		11/20/18 21:22	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/14/18 11:46	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/14/18 11:06	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B34-1 **Lab ID: 35430704002** Collected: 11/13/18 09:30 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.65**	Std. Units			1		11/13/18 09:30		
Field Temperature	**22.8**	deg C			1		11/13/18 09:30		
Appearance	**Color: yellow, Sheen: none**				1		11/13/18 09:30		
Field Specific Conductance	**1542**	umhos/cm			1		11/13/18 09:30		
Oxygen, Dissolved	**0.59**	mg/L			1		11/13/18 09:30	7782-44-7	
REDOX	**-71.9**	mV			1		11/13/18 09:30		
Turbidity	**10.27**	NTU			1		11/13/18 09:30		
Water Level(NGVD)	**28.59**	feet			1		11/13/18 09:30		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 04:05	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/24/18 09:05	11/25/18 04:05	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**179**	ug/L	10.0	0.84	1	11/28/18 08:43	11/29/18 18:47	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/28/18 08:43	11/29/18 18:47	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/28/18 08:43	11/29/18 18:47	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/28/18 08:43	11/29/18 18:47	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/28/18 08:43	11/29/18 18:47	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/28/18 08:43	11/29/18 18:47	7440-50-8	
Iron	**36800**	ug/L	40.0	9.2	1	11/28/18 08:43	11/29/18 18:47	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/28/18 08:43	11/29/18 18:47	7439-92-1	
Nickel	**2.7 I**	ug/L	5.0	2.1	1	11/28/18 08:43	11/29/18 18:47	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/28/18 08:43	11/29/18 18:47	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/28/18 08:43	11/29/18 18:47	7440-22-4	
Sodium	**40.9**	mg/L	2.0	0.27	1	11/28/18 08:43	11/29/18 18:47	7440-23-5	
Vanadium	**1.1 I**	ug/L	10.0	1.0	1	11/28/18 08:43	11/29/18 18:47	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/28/18 08:43	11/29/18 18:47	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:17	7440-36-0	
Arsenic	**1.7**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:17	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/26/18 16:00	11/27/18 18:56	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/22/18 14:34	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:34	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/22/18 14:34	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/22/18 14:34	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B34-1 **Lab ID: 35430704002** Collected: 11/13/18 09:30 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/22/18 14:34	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:34	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:34	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/22/18 14:34	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 14:34	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/22/18 14:34	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/22/18 14:34	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/22/18 14:34	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:34	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 14:34	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 14:34	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:34	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 14:34	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/22/18 14:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:34	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/22/18 14:34	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/22/18 14:34	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/22/18 14:34	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:34	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/22/18 14:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/22/18 14:34	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		11/22/18 14:34	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/22/18 14:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B34-1 **Lab ID: 35430704002** Collected: 11/13/18 09:30 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**974**	mg/L	10.0	10.0	1		11/20/18 17:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**60.1**	mg/L	25.0	12.5	5		11/20/18 21:45	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.17**	mg/L	0.050	0.035	1		11/14/18 11:48	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/14/18 11:07	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B34-2 **Lab ID: 35430704003** Collected: 11/13/18 09:58 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.92**	Std. Units			1		11/13/18 09:58		
Field Temperature	**24.0**	deg C			1		11/13/18 09:58		
Appearance	**Color: yellow, Sheen: none**				1		11/13/18 09:58		
Field Specific Conductance	**1448**	umhos/cm			1		11/13/18 09:58		
Oxygen, Dissolved	**0.17**	mg/L			1		11/13/18 09:58	7782-44-7	
REDOX	**-110.7**	mV			1		11/13/18 09:58		
Turbidity	**15.27**	NTU			1		11/13/18 09:58		
Water Level(NGVD)	**29.75**	feet			1		11/13/18 09:58		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.020	0.0062	1	11/24/18 09:05	11/25/18 04:19	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/24/18 09:05	11/25/18 04:19	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**74.9**	ug/L	10.0	0.84	1	11/28/18 08:43	11/29/18 18:50	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/28/18 08:43	11/29/18 18:50	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/28/18 08:43	11/29/18 18:50	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/28/18 08:43	11/29/18 18:50	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/28/18 08:43	11/29/18 18:50	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/28/18 08:43	11/29/18 18:50	7440-50-8	
Iron	**35900**	ug/L	40.0	9.2	1	11/28/18 08:43	11/29/18 18:50	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/28/18 08:43	11/29/18 18:50	7439-92-1	
Nickel	**10.2**	ug/L	5.0	2.1	1	11/28/18 08:43	11/29/18 18:50	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/28/18 08:43	11/29/18 18:50	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/28/18 08:43	11/29/18 18:50	7440-22-4	
Sodium	**27.3**	mg/L	2.0	0.27	1	11/28/18 08:43	11/29/18 18:50	7440-23-5	
Vanadium	**3.4 I**	ug/L	10.0	1.0	1	11/28/18 08:43	11/29/18 18:50	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/28/18 08:43	11/29/18 18:50	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:19	7440-36-0	
Arsenic	**5.9**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:19	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 11:01	11/29/18 15:02	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/22/18 14:57	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:57	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/22/18 14:57	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/22/18 14:57	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B34-2 **Lab ID: 35430704003** Collected: 11/13/18 09:58 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/22/18 14:57	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:57	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:57	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/22/18 14:57	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 14:57	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/22/18 14:57	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/22/18 14:57	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/22/18 14:57	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:57	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 14:57	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 14:57	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:57	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 14:57	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/22/18 14:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 14:57	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/22/18 14:57	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/22/18 14:57	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/22/18 14:57	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 14:57	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/22/18 14:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/22/18 14:57	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/22/18 14:57	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/22/18 14:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B34-2 **Lab ID: 35430704003** Collected: 11/13/18 09:58 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**878**	mg/L	10.0	10.0	1		11/20/18 17:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**59.0**	mg/L	25.0	12.5	5		11/20/18 22:07	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.6**	mg/L	0.050	0.035	1		11/14/18 11:50	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.4**	mg/L	0.050	0.025	1		11/14/18 11:08	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B-11 **Lab ID: 35430704004** Collected: 11/13/18 10:40 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.08**	Std. Units			1		11/13/18 10:40		
Field Temperature	**26.9**	deg C			1		11/13/18 10:40		
Appearance	**Color: yellow, Sheen: none**				1		11/13/18 10:40		
Field Specific Conductance	**126**	umhos/cm			1		11/13/18 10:40		
Oxygen, Dissolved	**0.33**	mg/L			1		11/13/18 10:40	7782-44-7	
REDOX	**26.6**	mV			1		11/13/18 10:40		
Turbidity	**6.87**	NTU			1		11/13/18 10:40		
Water Level(NGVD)	**29.31**	feet			1		11/13/18 10:40		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 04:34	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/24/18 09:05	11/25/18 04:34	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**44.7**	ug/L	10.0	0.84	1	11/28/18 08:43	11/29/18 18:53	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/28/18 08:43	11/29/18 18:53	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/28/18 08:43	11/29/18 18:53	7440-43-9	
Chromium	**5.3**	ug/L	5.0	1.7	1	11/28/18 08:43	11/29/18 18:53	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/28/18 08:43	11/29/18 18:53	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/28/18 08:43	11/29/18 18:53	7440-50-8	
Iron	**2740**	ug/L	40.0	9.2	1	11/28/18 08:43	11/29/18 18:53	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/28/18 08:43	11/29/18 18:53	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/28/18 08:43	11/29/18 18:53	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/28/18 08:43	11/29/18 18:53	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/28/18 08:43	11/29/18 18:53	7440-22-4	
Sodium	**7.4**	mg/L	2.0	0.27	1	11/28/18 08:43	11/29/18 18:53	7440-23-5	
Vanadium	**22.1**	ug/L	10.0	1.0	1	11/28/18 08:43	11/29/18 18:53	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/28/18 08:43	11/29/18 18:53	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:20	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:20	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/26/18 16:00	11/27/18 18:58	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/22/18 15:21	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:21	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/22/18 15:21	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/22/18 15:21	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B-11 **Lab ID: 35430704004** Collected: 11/13/18 10:40 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/22/18 15:21	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:21	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:21	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/22/18 15:21	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 15:21	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/22/18 15:21	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/22/18 15:21	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/22/18 15:21	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:21	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 15:21	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 15:21	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:21	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 15:21	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/22/18 15:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:21	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/22/18 15:21	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/22/18 15:21	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/22/18 15:21	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:21	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/22/18 15:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/22/18 15:21	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/22/18 15:21	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/22/18 15:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B-11 **Lab ID: 35430704004** Collected: 11/13/18 10:40 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**76.0**	mg/L	5.0	5.0	1		11/20/18 17:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.7**	mg/L	5.0	2.5	1		11/20/18 22:30	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.60**	mg/L	0.050	0.035	1		11/14/18 11:52	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.038 I**	mg/L	0.050	0.025	1		11/14/18 11:10	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B5 **Lab ID: 35430704005** Collected: 11/13/18 11:35 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.88**	Std. Units			1		11/13/18 11:35		
Field Temperature	**25.0**	deg C			1		11/13/18 11:35		
Appearance	**Color: yellow, Sheen: none**				1		11/13/18 11:35		
Field Specific Conductance	**631**	umhos/cm			1		11/13/18 11:35		
Oxygen, Dissolved	**0.15**	mg/L			1		11/13/18 11:35	7782-44-7	
REDOX	**68.4**	mV			1		11/13/18 11:35		
Turbidity	**138**	NTU			1		11/13/18 11:35		
Water Level(NGVD)	**28.78**	feet			1		11/13/18 11:35		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/24/18 09:05	11/25/18 04:49	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/24/18 09:05	11/25/18 04:49	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**69.3**	ug/L	10.0	0.84	1	11/28/18 08:43	11/29/18 19:08	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/28/18 08:43	11/29/18 19:08	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/28/18 08:43	11/29/18 19:08	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/28/18 08:43	11/29/18 19:08	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/28/18 08:43	11/29/18 19:08	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/28/18 08:43	11/29/18 19:08	7440-50-8	
Iron	**16000**	ug/L	40.0	9.2	1	11/28/18 08:43	11/29/18 19:08	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/28/18 08:43	11/29/18 19:08	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/28/18 08:43	11/29/18 19:08	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/28/18 08:43	11/29/18 19:08	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/28/18 08:43	11/29/18 19:08	7440-22-4	
Sodium	**24.4**	mg/L	2.0	0.27	1	11/28/18 08:43	11/29/18 19:08	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/28/18 08:43	11/29/18 19:08	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/28/18 08:43	11/29/18 19:08	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:22	7440-36-0	
Arsenic	**1.8**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:22	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/26/18 16:00	11/27/18 19:00	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/22/18 15:45	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:45	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/22/18 15:45	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/22/18 15:45	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B5 **Lab ID: 35430704005** Collected: 11/13/18 11:35 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/22/18 15:45	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:45	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:45	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/22/18 15:45	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 15:45	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/22/18 15:45	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/22/18 15:45	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/22/18 15:45	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:45	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 15:45	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 15:45	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:45	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 15:45	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/22/18 15:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 15:45	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/22/18 15:45	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/22/18 15:45	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/22/18 15:45	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 15:45	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/22/18 15:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/22/18 15:45	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/22/18 15:45	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/22/18 15:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B5 **Lab ID: 35430704005** Collected: 11/13/18 11:35 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**354**	mg/L	5.0	5.0	1		11/20/18 17:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.7**	mg/L	5.0	2.5	1		11/20/18 23:37	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.1**	mg/L	0.050	0.035	1		11/14/18 11:54	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.83**	mg/L	0.050	0.025	1		11/14/18 11:13	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B-5 DUP **Lab ID: 35430704006** Collected: 11/13/18 11:35 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.88**	Std. Units			1		11/13/18 11:35		
Field Temperature	**25.0**	deg C			1		11/13/18 11:35		
Appearance	**Color: yellow, Sheen: none**				1		11/13/18 11:35		
Field Specific Conductance	**631**	umhos/cm			1		11/13/18 11:35		
Oxygen, Dissolved	**0.15**	mg/L			1		11/13/18 11:35	7782-44-7	
REDOX	**68.4**	mV			1		11/13/18 11:35		
Turbidity	**138**	NTU			1		11/13/18 11:35		
Water Level(NGVD)	**28.78**	feet			1		11/13/18 11:35		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/24/18 09:05	11/25/18 05:03	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/24/18 09:05	11/25/18 05:03	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**69.8**	ug/L	10.0	0.84	1	11/28/18 08:43	11/29/18 19:11	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/28/18 08:43	11/29/18 19:11	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/28/18 08:43	11/29/18 19:11	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/28/18 08:43	11/29/18 19:11	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/28/18 08:43	11/29/18 19:11	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/28/18 08:43	11/29/18 19:11	7440-50-8	
Iron	**18000**	ug/L	40.0	9.2	1	11/28/18 08:43	11/29/18 19:11	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/28/18 08:43	11/29/18 19:11	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/28/18 08:43	11/29/18 19:11	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/28/18 08:43	11/29/18 19:11	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/28/18 08:43	11/29/18 19:11	7440-22-4	
Sodium	**23.6**	mg/L	2.0	0.27	1	11/28/18 08:43	11/29/18 19:11	7440-23-5	
Vanadium	**1.1 I**	ug/L	10.0	1.0	1	11/28/18 08:43	11/29/18 19:11	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/28/18 08:43	11/29/18 19:11	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:24	7440-36-0	
Arsenic	**2.4**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:24	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/26/18 16:00	11/28/18 09:01	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/22/18 16:09	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:09	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/22/18 16:09	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/22/18 16:09	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B-5 DUP **Lab ID: 35430704006** Collected: 11/13/18 11:35 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/22/18 16:09	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:09	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:09	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/22/18 16:09	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 16:09	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/22/18 16:09	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/22/18 16:09	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/22/18 16:09	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:09	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 16:09	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 16:09	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:09	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 16:09	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/22/18 16:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:09	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/22/18 16:09	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/22/18 16:09	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/22/18 16:09	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:09	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/22/18 16:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/22/18 16:09	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/22/18 16:09	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/22/18 16:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B-5 DUP **Lab ID: 35430704006** Collected: 11/13/18 11:35 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**373**	mg/L	5.0	5.0	1		11/20/18 17:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.4**	mg/L	5.0	2.5	1		11/20/18 23:59	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.0**	mg/L	0.050	0.035	1		11/14/18 11:56	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/14/18 11:20	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B33-1 **Lab ID: 35430704009** Collected: 11/13/18 13:57 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.49**	Std. Units			1		11/13/18 13:57		
Field Temperature	**24.9**	deg C			1		11/13/18 13:57		
Appearance	**Color: yellow, Sheen: none**				1		11/13/18 13:57		
Field Specific Conductance	**589**	umhos/cm			1		11/13/18 13:57		
Oxygen, Dissolved	**0.11**	mg/L			1		11/13/18 13:57	7782-44-7	
REDOX	**-43.2**	mV			1		11/13/18 13:57		
Turbidity	**4.82**	NTU			1		11/13/18 13:57		
Water Level(NGVD)	**28.06**	feet			1		11/13/18 13:57		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 05:18	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/24/18 09:05	11/25/18 05:18	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**37.3**	ug/L	10.0	0.84	1	11/28/18 08:43	11/29/18 19:14	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/28/18 08:43	11/29/18 19:14	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/28/18 08:43	11/29/18 19:14	7440-43-9	
Chromium	**2.1 I**	ug/L	5.0	1.7	1	11/28/18 08:43	11/29/18 19:14	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/28/18 08:43	11/29/18 19:14	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/28/18 08:43	11/29/18 19:14	7440-50-8	
Iron	**10100**	ug/L	40.0	9.2	1	11/28/18 08:43	11/29/18 19:14	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/28/18 08:43	11/29/18 19:14	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/28/18 08:43	11/29/18 19:14	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/28/18 08:43	11/29/18 19:14	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/28/18 08:43	11/29/18 19:14	7440-22-4	
Sodium	**53.8**	mg/L	2.0	0.27	1	11/28/18 08:43	11/29/18 19:14	7440-23-5	
Vanadium	**3.8 I**	ug/L	10.0	1.0	1	11/28/18 08:43	11/29/18 19:14	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/28/18 08:43	11/29/18 19:14	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:25	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:25	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/26/18 16:00	11/27/18 19:04	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/22/18 16:33	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:33	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/22/18 16:33	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/22/18 16:33	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B33-1 **Lab ID: 35430704009** Collected: 11/13/18 13:57 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/22/18 16:33	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:33	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:33	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/22/18 16:33	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 16:33	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/22/18 16:33	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/22/18 16:33	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/22/18 16:33	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:33	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 16:33	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 16:33	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:33	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 16:33	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/22/18 16:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:33	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/22/18 16:33	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/22/18 16:33	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/22/18 16:33	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:33	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/22/18 16:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/22/18 16:33	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		11/22/18 16:33	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/22/18 16:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B33-1 **Lab ID: 35430704009** Collected: 11/13/18 13:57 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**360**	mg/L	5.0	5.0	1		11/20/18 17:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**55.9**	mg/L	5.0	2.5	1		11/21/18 00:22	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.26**	mg/L	0.050	0.035	1		11/14/18 12:05	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.029 I**	mg/L	0.050	0.025	1		11/14/18 11:24	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B37-2 **Lab ID: 35430704010** Collected: 11/13/18 14:46 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.49**	Std. Units			1		11/13/18 14:46		
Field Temperature	**24.5**	deg C			1		11/13/18 14:46		
Appearance	**Color: yellow, Sheen: none**				1		11/13/18 14:46		
Field Specific Conductance	**467.1**	umhos/cm			1		11/13/18 14:46		
Oxygen, Dissolved	**0.29**	mg/L			1		11/13/18 14:46	7782-44-7	
REDOX	**34.2**	mV			1		11/13/18 14:46		
Turbidity	**16.79**	NTU			1		11/13/18 14:46		
Water Level(NGVD)	**28.01**	feet			1		11/13/18 14:46		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 05:33	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/24/18 09:05	11/25/18 05:33	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**26.8**	ug/L	10.0	0.84	1	11/28/18 08:43	11/29/18 19:17	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/28/18 08:43	11/29/18 19:17	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/28/18 08:43	11/29/18 19:17	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/28/18 08:43	11/29/18 19:17	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/28/18 08:43	11/29/18 19:17	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/28/18 08:43	11/29/18 19:17	7440-50-8	
Iron	**8510**	ug/L	40.0	9.2	1	11/28/18 08:43	11/29/18 19:17	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/28/18 08:43	11/29/18 19:17	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/28/18 08:43	11/29/18 19:17	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/28/18 08:43	11/29/18 19:17	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/28/18 08:43	11/29/18 19:17	7440-22-4	
Sodium	**10**	mg/L	2.0	0.27	1	11/28/18 08:43	11/29/18 19:17	7440-23-5	
Vanadium	**2.5 I**	ug/L	10.0	1.0	1	11/28/18 08:43	11/29/18 19:17	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/28/18 08:43	11/29/18 19:17	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:27	7440-36-0	
Arsenic	**3.5**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:27	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/26/18 16:00	11/27/18 19:06	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/22/18 16:56	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:56	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/22/18 16:56	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/22/18 16:56	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B37-2 **Lab ID: 35430704010** Collected: 11/13/18 14:46 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/22/18 16:56	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:56	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:56	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/22/18 16:56	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 16:56	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/22/18 16:56	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/22/18 16:56	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/22/18 16:56	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:56	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 16:56	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 16:56	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:56	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 16:56	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/22/18 16:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 16:56	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/22/18 16:56	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/22/18 16:56	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/22/18 16:56	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 16:56	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/22/18 16:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/22/18 16:56	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/22/18 16:56	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/22/18 16:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B37-2 **Lab ID: 35430704010** Collected: 11/13/18 14:46 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**285**	mg/L	5.0	5.0	1		11/20/18 17:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**17.4**	mg/L	5.0	2.5	1		11/21/18 01:29	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.49**	mg/L	0.050	0.035	1		11/14/18 12:07	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.035 I**	mg/L	0.050	0.025	1		11/14/18 11:25	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B37-1 **Lab ID: 35430704011** Collected: 11/13/18 15:31 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.69**	Std. Units			1		11/13/18 15:31		
Field Temperature	**24.6**	deg C			1		11/13/18 15:31		
Appearance	**Color: yellow, Sheen: none**				1		11/13/18 15:31		
Field Specific Conductance	**1540**	umhos/cm			1		11/13/18 15:31		
Oxygen, Dissolved	**0.14**	mg/L			1		11/13/18 15:31	7782-44-7	
REDOX	**-37.2**	mV			1		11/13/18 15:31		
Turbidity	**184.7**	NTU			1		11/13/18 15:31		
Water Level(NGVD)	**27.53**	feet			1		11/13/18 15:31		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 05:47	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/24/18 09:05	11/25/18 05:47	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**235**	ug/L	10.0	0.84	1	11/28/18 08:43	11/29/18 19:19	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/28/18 08:43	11/29/18 19:19	7440-41-7	
Cadmium	**0.42 I**	ug/L	1.0	0.33	1	11/28/18 08:43	11/29/18 19:19	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/28/18 08:43	11/29/18 19:19	7440-47-3	
Cobalt	**2.0 I**	ug/L	10.0	0.96	1	11/28/18 08:43	11/29/18 19:19	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/28/18 08:43	11/29/18 19:19	7440-50-8	
Iron	**48600**	ug/L	800	184	20	11/28/18 08:43	11/30/18 11:13	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/28/18 08:43	11/29/18 19:19	7439-92-1	
Nickel	**2.4 I**	ug/L	5.0	2.1	1	11/28/18 08:43	11/29/18 19:19	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/28/18 08:43	11/29/18 19:19	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/28/18 08:43	11/29/18 19:19	7440-22-4	
Sodium	**191**	mg/L	2.0	0.27	1	11/28/18 08:43	11/29/18 19:19	7440-23-5	
Vanadium	**1.8 I**	ug/L	10.0	1.0	1	11/28/18 08:43	11/29/18 19:19	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/28/18 08:43	11/29/18 19:19	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:28	7440-36-0	
Arsenic	**0.50 I**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:28	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/28/18 08:45	11/28/18 20:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/26/18 16:00	11/27/18 19:08	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/22/18 17:20	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:20	107-13-1	
Benzene	**5.9**	ug/L	1.0	0.10	1		11/22/18 17:20	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/22/18 17:20	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B37-1 **Lab ID: 35430704011** Collected: 11/13/18 15:31 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/22/18 17:20	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:20	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:20	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/22/18 17:20	56-23-5	
Chlorobenzene	**4.9**	ug/L	1.0	0.50	1		11/22/18 17:20	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 17:20	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/22/18 17:20	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/22/18 17:20	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/22/18 17:20	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:20	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 17:20	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 17:20	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:20	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 17:20	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/22/18 17:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:20	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/22/18 17:20	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	127-18-4	
Toluene	**1.1**	ug/L	1.0	0.50	1		11/22/18 17:20	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/22/18 17:20	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/22/18 17:20	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:20	75-01-4	
Xylene (Total)	**4.3**	ug/L	3.0	1.5	1		11/22/18 17:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/22/18 17:20	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/22/18 17:20	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/22/18 17:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: B37-1 **Lab ID: 35430704011** Collected: 11/13/18 15:31 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1230**	mg/L	10.0	10.0	1		11/20/18 17:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**213**	mg/L	25.0	12.5	5		11/21/18 01:51	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.37**	mg/L	0.050	0.035	1		11/14/18 12:09	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/14/18 11:26	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: Trip Blank 11/13/18 **Lab ID: 35430704012** Collected: 11/13/18 00:00 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/22/18 17:44	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:44	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/22/18 17:44	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/22/18 17:44	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/22/18 17:44	74-83-9	
2-Butanone (MEK)	**16.2**	ug/L	10.0	5.0	1		11/22/18 17:44	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:44	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/22/18 17:44	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 17:44	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/22/18 17:44	74-87-3	
1,2-Dibromo-3-chloropropane	**1.0 U**	ug/L	5.0	1.0	1		11/22/18 17:44	96-12-8	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/22/18 17:44	124-48-1	
1,2-Dibromoethane (EDB)	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	106-93-4	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/22/18 17:44	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:44	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 17:44	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/22/18 17:44	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:44	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/22/18 17:44	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/22/18 17:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/22/18 17:44	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/22/18 17:44	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/22/18 17:44	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/22/18 17:44	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/22/18 17:44	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Sample: Trip Blank 11/13/18 **Lab ID: 35430704012** Collected: 11/13/18 00:00 Received: 11/13/18 16:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/22/18 17:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/22/18 17:44	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/22/18 17:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/22/18 17:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 496201 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35430704001, 35430704002, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

METHOD BLANK: 2683488 Matrix: Water
Associated Lab Samples: 35430704001, 35430704002, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/27/18 18:15	

LABORATORY CONTROL SAMPLE: 2683489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683490 2683491

Parameter	Units	35430545001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.0	1.9	98	97	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 497210 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35430704003

METHOD BLANK: 2688466 Matrix: Water
Associated Lab Samples: 35430704003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/29/18 14:57	

LABORATORY CONTROL SAMPLE: 2688467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.3	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2688468 2688469

Parameter	Units	35430704003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.1	2.1	103	106	75-125	3	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 496789 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

METHOD BLANK: 2686288 Matrix: Water
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/29/18 18:05	
Beryllium	ug/L	1.6 U	4.0	1.6	11/29/18 18:05	
Cadmium	ug/L	0.33 U	1.0	0.33	11/29/18 18:05	
Chromium	ug/L	1.7 U	5.0	1.7	11/29/18 18:05	
Cobalt	ug/L	0.96 U	10.0	0.96	11/29/18 18:05	
Copper	ug/L	2.6 U	5.0	2.6	11/29/18 18:05	
Iron	ug/L	9.2 U	40.0	9.2	11/29/18 18:05	
Lead	ug/L	4.6 U	10.0	4.6	11/29/18 18:05	
Nickel	ug/L	2.1 U	5.0	2.1	11/29/18 18:05	
Selenium	ug/L	8.5 U	15.0	8.5	11/29/18 18:05	
Silver	ug/L	1.0 U	5.0	1.0	11/29/18 18:05	
Sodium	mg/L	0.27 U	2.0	0.27	11/29/18 18:05	
Vanadium	ug/L	1.0 U	10.0	1.0	11/29/18 18:05	
Zinc	ug/L	11.0 U	20.0	11.0	11/29/18 18:05	

LABORATORY CONTROL SAMPLE: 2686289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	249	100	80-120	
Beryllium	ug/L	25	24.0	96	80-120	
Cadmium	ug/L	25	25.6	102	80-120	
Chromium	ug/L	250	249	100	80-120	
Cobalt	ug/L	250	252	101	80-120	
Copper	ug/L	250	243	97	80-120	
Iron	ug/L	2500	2510	100	80-120	
Lead	ug/L	250	254	102	80-120	
Nickel	ug/L	250	259	103	80-120	
Selenium	ug/L	250	241	97	80-120	
Silver	ug/L	25	24.6	98	80-120	
Sodium	mg/L	12.5	11.8	94	80-120	
Vanadium	ug/L	250	246	98	80-120	
Zinc	ug/L	1250	1220	98	80-120	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2686290 2686291

Parameter	Units	35430545002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	10.8	250	250	264	263	101	101	75-125	1	20	
Beryllium	ug/L	1.6 U	25	25	24.5	24.4	98	98	75-125	0	20	
Cadmium	ug/L	0.33 U	25	25	25.8	25.7	103	102	75-125	1	20	
Chromium	ug/L	1.7 U	250	250	254	253	101	101	75-125	0	20	
Cobalt	ug/L	0.96 U	250	250	260	258	104	103	75-125	1	20	
Copper	ug/L	2.6 U	250	250	252	251	101	101	75-125	0	20	
Iron	ug/L	288	2500	2500	2850	2840	103	102	75-125	0	20	
Lead	ug/L	4.6 U	250	250	260	259	104	104	75-125	0	20	
Nickel	ug/L	2.1 U	250	250	264	264	105	105	75-125	0	20	
Selenium	ug/L	8.5 U	250	250	247	243	99	97	75-125	2	20	
Silver	ug/L	1.0 U	25	25	24.8	25.0	99	100	75-125	1	20	
Sodium	mg/L	5.9	12.5	12.5	18.3	18.2	99	99	75-125	0	20	
Vanadium	ug/L	1.5 I	250	250	255	254	101	101	75-125	0	20	
Zinc	ug/L	11.0 U	1250	1250	1250	1240	100	99	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 496790 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

METHOD BLANK: 2686292 Matrix: Water
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/28/18 19:54	
Arsenic	ug/L	0.50 U	1.0	0.50	11/28/18 19:54	
Thallium	ug/L	0.50 U	1.0	0.50	11/28/18 19:54	

LABORATORY CONTROL SAMPLE: 2686293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	51.1	102	80-120	
Arsenic	ug/L	50	50.8	102	80-120	
Thallium	ug/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2686294 2686295

Parameter	Units	35430545003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	50.3	50.5	101	101	75-125	0	20	
Arsenic	ug/L	0.50 U	50	50	51.0	50.9	102	101	75-125	0	20	
Thallium	ug/L	0.50 U	50	50	53.0	53.3	106	107	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 495824 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011, 35430704012

METHOD BLANK: 2682385 Matrix: Water
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011, 35430704012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/22/18 10:12	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/22/18 10:12	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	5.0	1.0	11/22/18 10:12	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/22/18 10:12	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/22/18 10:12	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/22/18 10:12	
Acetone	ug/L	10.0 U	20.0	10.0	11/22/18 10:12	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/22/18 10:12	
Benzene	ug/L	0.10 U	1.0	0.10	11/22/18 10:12	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/22/18 10:12	
Bromoform	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/22/18 10:12	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/22/18 10:12	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/22/18 10:12	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/22/18 10:12	
Chloroform	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/22/18 10:12	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/22/18 10:12	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/22/18 10:12	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/22/18 10:12	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/22/18 10:12	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/22/18 10:12	
Styrene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
Toluene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

METHOD BLANK: 2682385 Matrix: Water

Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011, 35430704012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/22/18 10:12	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/22/18 10:12	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/22/18 10:12	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/22/18 10:12	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/22/18 10:12	
1,2-Dichloroethane-d4 (S)	%	94	70-130		11/22/18 10:12	
4-Bromofluorobenzene (S)	%	112	70-130		11/22/18 10:12	
Toluene-d8 (S)	%	105	70-130		11/22/18 10:12	

LABORATORY CONTROL SAMPLE: 2682386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.6	108	70-130	
1,1,1-Trichloroethane	ug/L	20	19.2	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	90	68-125	
1,1,2-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethene	ug/L	20	16.9	85	66-133	
1,2,3-Trichloropropane	ug/L	20	17.6	88	62-127	
1,2-Dibromo-3-chloropropane	ug/L	20	15.8	79	45-137	
1,2-Dibromoethane (EDB)	ug/L	20	21.4	107	70-130	
1,2-Dichlorobenzene	ug/L	20	19.6	98	70-130	
1,2-Dichloroethane	ug/L	20	17.7	88	70-130	
1,2-Dichloropropane	ug/L	20	18.0	90	70-130	
1,4-Dichlorobenzene	ug/L	20	17.8	89	70-130	
2-Butanone (MEK)	ug/L	40	34.6	86	47-143	
2-Hexanone	ug/L	40	32.0	80	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	31.9	80	57-132	
Acetone	ug/L	40	34.7	87	46-148	
Acrylonitrile	ug/L	200	245	122	60-143	
Benzene	ug/L	20	18.5	92	70-130	
Bromochloromethane	ug/L	20	21.2	106	70-130	
Bromodichloromethane	ug/L	20	18.9	94	70-130	
Bromoform	ug/L	20	18.1	91	49-126	
Bromomethane	ug/L	20	20.9	105	10-165	
Carbon disulfide	ug/L	20	12.5	63	60-141	
Carbon tetrachloride	ug/L	20	19.1	95	63-126	
Chlorobenzene	ug/L	20	18.5	92	70-130	
Chloroethane	ug/L	20	15.2	76	71-142	
Chloroform	ug/L	20	18.7	94	70-130	
Chloromethane	ug/L	20	12.4	62	40-140	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

LABORATORY CONTROL SAMPLE: 2682386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	18.2	91	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.6	88	70-130	
Dibromochloromethane	ug/L	20	17.7	89	62-118	
Dibromomethane	ug/L	20	23.2	116	70-130	
Ethylbenzene	ug/L	20	18.7	94	70-130	
Iodomethane	ug/L	40	16.9	42	10-164	
Methylene Chloride	ug/L	20	18.0	90	65-136	
Styrene	ug/L	20	18.9	95	70-130	
Tetrachloroethene	ug/L	20	21.3	107	64-134	
Toluene	ug/L	20	18.5	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	94	68-127	
trans-1,3-Dichloropropene	ug/L	20	16.9	85	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	14.2	71	42-129	
Trichloroethene	ug/L	20	19.2	96	70-130	
Trichlorofluoromethane	ug/L	20	14.8	74	65-135	
Vinyl acetate	ug/L	20	17.2	86	60-144	
Vinyl chloride	ug/L	20	16.0	80	68-131	
Xylene (Total)	ug/L	60	59.4	99	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			117	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE SAMPLE: 2682499

Parameter	Units	35430679002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	19.6	98	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.8	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	16.4	82	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	17.6	88	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.7	89	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.3	86	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	15.1	75	62-127	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	20	11.2	56	45-137	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	20	17.9	90	70-130	
1,2-Dichlorobenzene	ug/L	0.50 U	20	17.2	86	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.8	84	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.0	80	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	16.3	82	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	21.3	53	47-143	
2-Hexanone	ug/L	5.0 U	40	19.8	50	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	19.5	49	57-132	J(M1)
Acetone	ug/L	10.0 U	40	23.0	58	46-148	
Acrylonitrile	ug/L	5.0 U	200	183	92	60-143	
Benzene	ug/L	0.10 U	20	17.3	86	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.9	100	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

MATRIX SPIKE SAMPLE: 2682499

Parameter	Units	35430679002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	0.27 U	20	16.8	84	70-130	
Bromoform	ug/L	0.50 U	20	15.7	78	49-126	
Bromomethane	ug/L	0.50 U	20	21.9	110	10-165	
Carbon disulfide	ug/L	5.0 U	20	10.3	52	60-141	J(M1)
Carbon tetrachloride	ug/L	0.50 U	20	18.7	94	63-126	
Chlorobenzene	ug/L	0.50 U	20	17.6	88	70-130	
Chloroethane	ug/L	0.50 U	20	22.5	113	71-142	
Chloroform	ug/L	0.50 U	20	17.3	86	70-130	
Chloromethane	ug/L	0.62 U	20	15.7	78	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	16.1	80	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	12.8	64	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	15.3	76	62-118	
Dibromomethane	ug/L	0.50 U	20	19.9	100	70-130	
Ethylbenzene	ug/L	0.50 U	20	17.2	86	70-130	
Iodomethane	ug/L	0.50 U	40	4.5 I	11	10-164	
Methylene Chloride	ug/L	2.5 U	20	17.4	87	65-136	
Styrene	ug/L	0.50 U	20	16.3	82	70-130	
Tetrachloroethene	ug/L	0.50 U	20	18.0	90	64-134	
Toluene	ug/L	0.50 U	20	17.4	87	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.3	87	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	13.9	70	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	8.3 I	42	42-129	
Trichloroethene	ug/L	0.50 U	20	18.5	93	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	18.9	95	65-135	
Vinyl acetate	ug/L	1.0 U	20	11.1	55	60-144	J(M1)
Vinyl chloride	ug/L	0.50 U	20	19.9	99	68-131	
Xylene (Total)	ug/L	1.5 U	60	52.8	88	70-130	
1,2-Dichloroethane-d4 (S)	%				94	70-130	
4-Bromofluorobenzene (S)	%				113	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2682498

Parameter	Units	35430679001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	1.0 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

SAMPLE DUPLICATE: 2682498

Parameter	Units	35430679001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	97	94	2	40	
4-Bromofluorobenzene (S)	%	108	107	1	40	
Toluene-d8 (S)	%	104	102	1	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 495792 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

METHOD BLANK: 2682099 Matrix: Water
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/25/18 01:23	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/25/18 01:23	

LABORATORY CONTROL SAMPLE: 2682100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.24	97	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	99	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682691 2682692

Parameter	Units	35431026004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.48	0.48	109	110	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.48	0.47	109	107	60-140	2	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 495086 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

METHOD BLANK: 2678202 Matrix: Water
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/20/18 17:19	

LABORATORY CONTROL SAMPLE: 2678203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	303	101	90-110	

SAMPLE DUPLICATE: 2678204

Parameter	Units	35430679001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1360	1380	1	5	

SAMPLE DUPLICATE: 2678205

Parameter	Units	35430704003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	878	900	2	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 495305 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

METHOD BLANK: 2679019 Matrix: Water
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/20/18 19:30	

LABORATORY CONTROL SAMPLE: 2679020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2679448 2679449

Parameter	Units	35430704004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.7	50	50	63.4	63.5	101	102	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2679450 2679451

Parameter	Units	35431307001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	45.5	50	50	98.3	99.6	106	108	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 493502 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

METHOD BLANK: 2669413 Matrix: Water
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004, 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/14/18 11:30	

LABORATORY CONTROL SAMPLE: 2669414

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

MATRIX SPIKE SAMPLE: 2669416

Parameter	Units	35430545005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	13.9	1	14.6	73	90-110	J(M1)

SAMPLE DUPLICATE: 2669415

Parameter	Units	35430545005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	13.9	13.8	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 493518 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004

METHOD BLANK: 2669464 Matrix: Water
Associated Lab Samples: 35430704001, 35430704002, 35430704003, 35430704004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/14/18 10:31	

SAMPLE DUPLICATE: 2669466

Parameter	Units	35430656002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.2	1.2	2	20	

SAMPLE DUPLICATE: 2669468

Parameter	Units	35430679003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.4	1.4	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

QC Batch: 493519 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

METHOD BLANK: 2669470 Matrix: Water
Associated Lab Samples: 35430704005, 35430704006, 35430704009, 35430704010, 35430704011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/14/18 11:11	

SAMPLE DUPLICATE: 2669472

Parameter	Units	35430704005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.83	0.83	0	20	

SAMPLE DUPLICATE: 2669474

Parameter	Units	35430739003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.93	0.94	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

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.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

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

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35430704002	**B34-1**				
35430704003	**B34-2**				
35430704004	**B-11**				
35430704005	**B5**				
35430704006	**B-5 DUP**				
35430704009	**B33-1**				
35430704010	**B37-2**				
35430704011	**B37-1**				
35430704001	**EQ Blank 11/13/18**	EPA 8011	495792	EPA 8011	495961
35430704002	**B34-1**	EPA 8011	495792	EPA 8011	495961
35430704003	**B34-2**	EPA 8011	495792	EPA 8011	495961
35430704004	**B-11**	EPA 8011	495792	EPA 8011	495961
35430704005	**B5**	EPA 8011	495792	EPA 8011	495961
35430704006	**B-5 DUP**	EPA 8011	495792	EPA 8011	495961
35430704009	**B33-1**	EPA 8011	495792	EPA 8011	495961
35430704010	**B37-2**	EPA 8011	495792	EPA 8011	495961
35430704011	**B37-1**	EPA 8011	495792	EPA 8011	495961
35430704001	**EQ Blank 11/13/18**	EPA 3010	496789	EPA 6010	496893
35430704002	**B34-1**	EPA 3010	496789	EPA 6010	496893
35430704003	**B34-2**	EPA 3010	496789	EPA 6010	496893
35430704004	**B-11**	EPA 3010	496789	EPA 6010	496893
35430704005	**B5**	EPA 3010	496789	EPA 6010	496893
35430704006	**B-5 DUP**	EPA 3010	496789	EPA 6010	496893
35430704009	**B33-1**	EPA 3010	496789	EPA 6010	496893
35430704010	**B37-2**	EPA 3010	496789	EPA 6010	496893
35430704011	**B37-1**	EPA 3010	496789	EPA 6010	496893
35430704001	**EQ Blank 11/13/18**	EPA 3010	496790	EPA 6020	496894
35430704002	**B34-1**	EPA 3010	496790	EPA 6020	496894
35430704003	**B34-2**	EPA 3010	496790	EPA 6020	496894
35430704004	**B-11**	EPA 3010	496790	EPA 6020	496894
35430704005	**B5**	EPA 3010	496790	EPA 6020	496894
35430704006	**B-5 DUP**	EPA 3010	496790	EPA 6020	496894
35430704009	**B33-1**	EPA 3010	496790	EPA 6020	496894
35430704010	**B37-2**	EPA 3010	496790	EPA 6020	496894
35430704011	**B37-1**	EPA 3010	496790	EPA 6020	496894
35430704001	**EQ Blank 11/13/18**	EPA 7470	496201	EPA 7470	496283
35430704002	**B34-1**	EPA 7470	496201	EPA 7470	496283
35430704003	**B34-2**	EPA 7470	497210	EPA 7470	497298
35430704004	**B-11**	EPA 7470	496201	EPA 7470	496283
35430704005	**B5**	EPA 7470	496201	EPA 7470	496283
35430704006	**B-5 DUP**	EPA 7470	496201	EPA 7470	496283
35430704009	**B33-1**	EPA 7470	496201	EPA 7470	496283
35430704010	**B37-2**	EPA 7470	496201	EPA 7470	496283
35430704011	**B37-1**	EPA 7470	496201	EPA 7470	496283
35430704001	**EQ Blank 11/13/18**	EPA 8260	495824		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-annual MWs
Pace Project No.: 35430704

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35430704002	**B34-1**	EPA 8260	495824		
35430704003	**B34-2**	EPA 8260	495824		
35430704004	**B-11**	EPA 8260	495824		
35430704005	**B5**	EPA 8260	495824		
35430704006	**B-5 DUP**	EPA 8260	495824		
35430704009	**B33-1**	EPA 8260	495824		
35430704010	**B37-2**	EPA 8260	495824		
35430704011	**B37-1**	EPA 8260	495824		
35430704012	**Trip Blank 11/13/18**	EPA 8260	495824		
35430704001	**EQ Blank 11/13/18**	SM 2540C	495086		
35430704002	**B34-1**	SM 2540C	495086		
35430704003	**B34-2**	SM 2540C	495086		
35430704004	**B-11**	SM 2540C	495086		
35430704005	**B5**	SM 2540C	495086		
35430704006	**B-5 DUP**	SM 2540C	495086		
35430704009	**B33-1**	SM 2540C	495086		
35430704010	**B37-2**	SM 2540C	495086		
35430704011	**B37-1**	SM 2540C	495086		
35430704001	**EQ Blank 11/13/18**	EPA 300.0	495305		
35430704002	**B34-1**	EPA 300.0	495305		
35430704003	**B34-2**	EPA 300.0	495305		
35430704004	**B-11**	EPA 300.0	495305		
35430704005	**B5**	EPA 300.0	495305		
35430704006	**B-5 DUP**	EPA 300.0	495305		
35430704009	**B33-1**	EPA 300.0	495305		
35430704010	**B37-2**	EPA 300.0	495305		
35430704011	**B37-1**	EPA 300.0	495305		
35430704001	**EQ Blank 11/13/18**	EPA 350.1	493502		
35430704002	**B34-1**	EPA 350.1	493502		
35430704003	**B34-2**	EPA 350.1	493502		
35430704004	**B-11**	EPA 350.1	493502		
35430704005	**B5**	EPA 350.1	493502		
35430704006	**B-5 DUP**	EPA 350.1	493502		
35430704009	**B33-1**	EPA 350.1	493502		
35430704010	**B37-2**	EPA 350.1	493502		
35430704011	**B37-1**	EPA 350.1	493502		
35430704001	**EQ Blank 11/13/18**	EPA 353.2	493518		
35430704002	**B34-1**	EPA 353.2	493518		
35430704003	**B34-2**	EPA 353.2	493518		
35430704004	**B-11**	EPA 353.2	493518		
35430704005	**B5**	EPA 353.2	493519		
35430704006	**B-5 DUP**	EPA 353.2	493519		
35430704009	**B33-1**	EPA 353.2	493519		
35430704010	**B37-2**	EPA 353.2	493519		
35430704011	**B37-1**	EPA 353.2	493519		

REPORT OF LABORATORY ANALYSIS

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

WO# : 35430704

35430704

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	Volusia County Solid Waste Management
Address:	1990 Tomoka Farms Road
	Port Orange, FL 32128
Email:	jstirk@volusia.org
Phone:	(386)947-2952 Fax:
Requested Due Date:	

Required Project Information:

Report To:	Jennifer Stirk
Copy To:	
Purchase Order #:	
Project Name:	Tomoka LF Semi-annual MWs
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	jeff.baylor@pacelabs.com,
Pace Profile #:	1590, Line 1

Regulatory Agency

State / Location

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS, NO3, CL	ammonia	Metals by 6010/6020/Hg	EDB 8011	8260 VOCs Full List	Trip Blank DO NOT OPEN -	Residual Chlorine (Y/N)
1	EQ					11/3/18	5:30												X	X	X	X	X	X	
2	B34-1						9:30																		
3	B34-2						9:58																		
4	B-11						10:40																		
5	B-5						11:35																		
6	Dup						11:35																		
7	B35-1						12:36																		
8	B35-2						1307																		
9	B33-1						1357																		
10	B37-2						1446																		
11	B37-1						1531																		
12	Trip Blank						0000																		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] Pace	11/4/18	1600	[signature] Pace	11/13/18	1640	2-3 Y Y Y
	[signature]	11-13-18	1640				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: BRUCE Foster

SIGNATURE of SAMPLER: [signature] DATE Signed: 11-13-18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2-3	Y	Y	Y

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35430704

Project Manager: PM: JSB **Due Date:** 11/29/18

Client: CLIENT: VOLDPW

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

Thermometer Used: T334 Date: 11/13/18 Time: 1640 Initials: DAC

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

Cooler #1 Temp.°C	2.3 (Visual)	+0 (Correction Factor)	2.3 (Actual)	☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	2.1 (Visual)	+0 (Correction Factor)	2.1 (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 # 7736 7706 7080

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	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☑ Yes ☐ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	See comments
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	See comments. 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)	☐ Yes ☑ No ☐ N/A	
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☐ N/A	
Trip Blank Present:	☑ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:

Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments): Sample 3: Test - Metals has limited volume.
Sample 9: Metals pH = 4. pH is out of range.

Project Manager Review: Date:

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid Waste	SITE LOCATION:	TOMOKA LF SEMIANNUAL
WELL NO:	EQ	SAMPLE ID:	EQ
		DATE:	11-13-18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: P

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAVID FOLTZ	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 8:30	SAMPLING ENDED AT: 8:37
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE, S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	TCE			TDS / SO4	AP	200
	1	PE	250	HNO3			6010 6020		
	1	PE	250	H2SO4			AMMONIA		
	3	CG	40	HCL			8260		
	2	CG	40	CCE			8011		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical® Florida Laboratory	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B34-1	SAMPLE ID: B34-1	DATE: 11-13-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 34 feet to 01 feet	STATIC DEPTH TO WATER (feet): 2.78	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (34.01 feet − 2.78 feet) X 0.16 gallons/foot = 4.9968 gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 9:00	PURGING ENDED AT: 9:30	TOTAL VOLUME PURGED (gallons): 9.50

20 TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:10	5.00	5.00	.25	4.12	6.65	22.9	1536	1.18	17.63	tan/brown	none
9:25	1.25	8.25	.25	4.12	6.65	22.9	1541	0.73	11.75	/	/
9:30	1.25	9.50	.25	4.12	6.65	22.8	1542	0.59	10.27	/	/

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:30	SAMPLING ENDED AT: 9:37
PUMP OR TUBING DEPTH IN WELL (feet): 5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	Ice		6.65	TDS, Cl, SO4	APP	400
	1	PE	250	HNO3			6010 6020	/	/
	1	PE	250	H2SO4			Ammonia 9260	/	/
	3	CG	40	HCl				/	/
	2	CG	40	TCE			SOC	/	/

REMARKS:
ORP -70.2 -71.3 -71.9

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Florida Laboratory	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B34-2	SAMPLE ID: B34-2	DATE: 11-13-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 0 feet	STATIC DEPTH TO WATER (feet): 1.69	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (17.0 feet − 1.69 feet) X 0.16 gallons/foot = 2.4496 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3	PURGING INITIATED AT: 9:42	PURGING ENDED AT: 9:58	TOTAL VOLUME PURGED (gallons): 4.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:52	2.50	2.50	.25	2.14	6.92	24.0	1438	0.17	17.11	Yellow	none
9:55	.75	3.25	.25	2.14	6.92	24.0	1446	0.16	18.76	"	"
9:58	.75	4.00	.25	2.14	6.92	24.0	1449	0.17	15.27	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Forbes	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:58	SAMPLING ENDED AT: 10:05
PUMP OR TUBING DEPTH IN WELL (feet): 3	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.92	TDS Cl SO4	APP	2400
	1	PE	250	HNO3			Gold Gold	"	"
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			BL60		
	2	CG	40	ICE			Gvil		

REMARKS:
ORP −110.7 −110.9 −110.7

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid WASTE	SITE LOCATION: TOMOKA LF SEMI ANNUAL	
WELL NO: B-11	SAMPLE ID: B 11	DATE: 11-13-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 16 feet to 20 feet	STATIC DEPTH TO WATER (feet): 4.05	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (16.90 feet − 4.05 feet) X 0.16 gallons/foot = 2.056 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 10:25	PURGING ENDED AT: 10:40	TOTAL VOLUME PURGED (gallons): 3.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:34	2.25	2.25	.25	4.98	5.02	26.9	121	0.77	961	yellow	sulfur
10:37	0.75	3.00	.25	4.98	5.01	26.9	120	0.63	8.31	1	1
10:40	0.75	3.75	.25	4.98	5.05	24.9	126	0.39	6.57	1	1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:40	SAMPLING ENDED AT: 10:47
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		2.05	TDS Cl SO4	APP	2400
	1	PE	250	HNO3			6010 6020		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCL			8260		
	2	CG	40	ICE			4011		

REMARKS:
ORP 28.4 27.0 23.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200.2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater).

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual
WELL NO: B-5 / Dup	SAMPLE ID: B-5 / DUP	DATE: 11-13-14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 6 feet	STATIC DEPTH TO WATER (feet): 4.03	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (25.6 feet – 4.03 feet) X 0.16 gallons/foot = 3.4512 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 11:25	PURGING ENDED AT: 11:75	TOTAL VOLUME PURGED (gallons): 7.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH -TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:19	3.36	3.36	.24	5.34	6.87	25.4	630	0.30	19.37	Yellow	None
11:23	0.96	4.32	.24	5.34	6.88	25.4	629	0.26	17.85		
11:27	0.96	5.28	.24	5.34	6.87	25.2	631	0.20	12.88		
11:31	0.96	6.24	.24	5.34	6.86	25.1	630	0.11	92.49		
11:35	0.96	7.20	.24	5.34	6.86	25.0	631	0.15	138 two		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Fosnot	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:35	SAMPLING ENDED AT: 11:47
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDPE, S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.86	TDS Cl SO4	APP	200
	1	PE	250	HNO3			6010 6020		
		PE	250	H2SO4			Ammonia		
	3	CG	40	HCL			8260		
	2	CG	40	HCL			8011		

REMARKS:
ORP -65.2 -65.9 67.0 67.9 68.4

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF SEMIANNUAL	
WELL NO: B35-1	SAMPLE ID: B35-1	DATE: 11-13-15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 33 feet to 44 feet	STATIC DEPTH TO WATER (feet): 1.34	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (33.94 feet – 1.34 feet) X 0.16 gallons/foot = 5.216 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3	PURGING INITIATED AT: 12:01	PURGING ENDED AT: 12:36	TOTAL VOLUME PURGED (gallons): 8.25

TIME (21)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:22	5.25	5.25	.25	2.11	6.84	23.6	519	0.80	5.79	very low	none
12:29	1.50	6.75	.25	2.11	6.82	23.7	519	0.77	9.18	/	/
12:36	1.50	8.25	.25	2.11	6.82	23.7	518	0.76	6.24	/	/

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:36	SAMPLING ENDED AT: 1241
PUMP OR TUBING DEPTH IN WELL (feet): 3	TUBING MATERIAL CODE: HDPE, S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	Ice		6.82	TDS Cl NO3	APP	400
	1	PE	250	HNO3			6010 6020	/	/
	1	PE	250	H2SO4			Ammonia	/	/
	3	CG	40	HCl			8260	/	/
	2	CG	40	Ice			5011	/	/

REMARKS:
ORP ~42.5 -42.8 -43.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B35-2	SAMPLE ID: B35-2	DATE: 11-13-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 43 feet	STATIC DEPTH TO WATER (feet): 1.98	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (17.44 feet – 1.98 feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12:45	PURGING ENDED AT: 13:07	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:55	2.50	2.50	.25	2.34	6.86	24.5	614	0.19	41.48	yellow	none
12:58	0.75	3.25	.25	2.34	6.86	24.5	620	0.14	38.50		
13:01	0.75	4.00	.25	2.34	6.85	24.5	621	0.14	35.31		
13:04	0.75	4.75	.25	2.34	6.85	24.5	618	0.12	28.61		
13:07	0.75	5.50	.25	2.34	6.86	24.5	619	0.14	32.44		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:07	SAMPLING ENDED AT: 13:14
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE, S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.86	TDS / SO4	APP	400
	1	PE	250	HNO3			6010 6020		
	1	PE	250	H2SO4			AMMONIA		
	3	CG	40	HCl			8260		
	2	CG	40	ICE			8011		

REMARKS:
ORP -61.5 -64.2 -65.6 -66.1 -67.8

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: TOMOKA LF SEMI ANNUAL	
WELL NO: B33.1	SAMPLE ID: B33.1	DATE: 11-13-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 39 feet to 54 feet	STATIC DEPTH TO WATER (feet): 7.84	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (39.54 feet – 7.84 feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 13:20	PURGING ENDED AT: 13:57	TOTAL VOLUME PURGED (gallons): 8.25

TIME (25)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:45	6.25	6.25	.25	7.88	6.50	25.2	591	0.20	13.52	yellow	sulfur
13:51	1.50	7.75	.25	7.88	6.47	25.0	589	0.13	4.17	"	"
13:57	1.51	8.25	.26	7.88	6.49	24.9	589	0.11	4.82	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BRUCE FOSTER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:57	SAMPLING ENDED AT: 1405
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: HDPE, S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	Ice		6.49	TDS, Cl, NO3	APP	< 400
	1	PE	250	H_2NO_3			6010 6020		
	1	PE	250	H_2SO_4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	Ice			8011		

REMARKS:
ORP -42.7 -42.6 -43.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 220[illegible] optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi-Annual
WELL NO: B37-2	SAMPLE ID: B37-2	DATE: 11-13-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 0 feet	STATIC DEPTH TO WATER (feet): 0.8	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (17.0 feet – 0.8 feet) X 0.16 gallons/foot = 2.592 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3	PURGING INITIATED AT: 14:29	PURGING ENDED AT: 14:46	TOTAL VOLUME PURGED (gallons): 4.22

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:40	2.75	2.75	.25	2.13	6.61	24.4	470.2	0.35	19.64	yellow	Sulfur
14:43	.75	3.50	.25	2.13	6.50	24.5	468.5	0.31	17.61	1	1
14:46	.75	4.22	.25	2.13	6.49	24.5	467.1	0.29	16.79	1	1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:46	SAMPLING ENDED AT: 1451
PUMP OR TUBING DEPTH IN WELL (feet): 3	TUBING MATERIAL CODE: HDPE, S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	Ice		6.49	TDS, Cl, SO4	APP	2400
	1	PE	250	HNO3			Color, COD		
	1	PE	250	H2SO4			Ammonia		
	3	CG	CG	HCl			8260		
	2	CG	CG	Ice			4011		

REMARKS:
ORP −35.6 −35.5 34.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semiannual	
WELL NO: B37-1	SAMPLE ID: B37-1	DATE: 11-13-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 37 feet to 74 feet	STATIC DEPTH TO WATER (feet): 1.0	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (37.74 feet – 1.0 feet) X 0.16 gallons/foot = 5.8784 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 14:55	PURGING ENDED AT: 1543	TOTAL VOLUME PURGED (gallons): 12.00

24 TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1514	6.00	6.00	.25	2.94	6.61	24.5	1533	0.23	183.0	yellow	Sulfur
1525	1.50	7.50	.25	2.94	6.63	24.5	1533	0.16	210.4		
1531	1.50	9.0	.25	2.94	6.68	24.5	1537	0.11	200.8		
1537	1.50	10.5	.25	2.94	6.66	24.5	1538	0.14	194.1		
1543	1.50	12.00	.25	2.94	6.69	24.6	1540	0.19	164.7		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1531	SAMPLING ENDED AT: 1538
PUMP OR TUBING DEPTH IN WELL (feet): 5	TUBING MATERIAL CODE: HDPE, S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	Ice		6.69	TDS Cl SO4	APP	≤400
	1	PE	250	HNO3			6010 6020	|	|
	1	PE	250	4250			Ammonia	|	|
	3	CG	40	HCl			8260	|	|
	2	CG	40	Ice			8011	|	|

REMARKS:
ORP -29.6 -31.7 -33.4 -34.1 -37.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

December 04, 2018

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Dear Ms. Stirk:
Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jeff Baylor

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, Volusia County Solid Waste Man

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35431370001	**EQ Blank 11/15/18**	Water	11/15/18 10:00	11/15/18 16:30
35431370002	**B38-1**	Water	11/15/18 11:26	11/15/18 16:30
35431370003	**B38-2**	Water	11/15/18 11:58	11/15/18 16:30
35431370004	**B63-1**	Water	11/15/18 12:33	11/15/18 16:30
35431370005	**B63-2**	Water	11/15/18 13:01	11/15/18 16:30
35431370006	**B85**	Water	11/15/18 12:07	11/15/18 16:30
35431370007	**B85 Dup**	Water	11/15/18 12:07	11/15/18 16:30
35431370008	**B85-6**	Water	11/15/18 12:45	11/15/18 16:30
35431370009	**B82-1**	Water	11/15/18 13:44	11/15/18 16:30
35431370010	**B87-6**	Water	11/15/18 14:50	11/15/18 16:30
35431370011	**Trip Blank 11/15/18**	Water	11/15/18 00:01	11/15/18 16:30

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35431370001	**EQ Blank 11/15/18**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35431370002	**B38-1**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35431370003	**B38-2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35431370004	**B63-1**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35431370005	**B63-2**	EPA 8011	SMH	2	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35431370006	**B85**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35431370007	**B85 Dup**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35431370008	**B85-6**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35431370009	**B82-1**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35431370010	**B87-6**	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	14	PASI-O
		EPA 6020	KPP	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35431370011	**Trip Blank 11/15/18**	EPA 8260	SK1	50	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35431370001	**EQ Blank 11/15/18**					
EPA 6010	Barium	10.9	ug/L	10.0	12/01/18 21:18	
EPA 6010	Iron	14.5 I	ug/L	40.0	12/01/18 21:18	
35431370002	**B38-1**					
	Field pH	4.80	Std. Units		11/15/18 11:26	
	Field Temperature	23.0	deg C		11/15/18 11:26	
	Appearance	Color: none, Sheen: none			11/15/18 11:26	
	Field Specific Conductance	309	umhos/cm		11/15/18 11:26	
	Oxygen, Dissolved	4.78	mg/L		11/15/18 11:26	
	REDOX	115.8	mV		11/15/18 11:26	
	Turbidity	1.34	NTU		11/15/18 11:26	
	Water Level(NGVD)	25.26	feet		11/15/18 11:26	
EPA 6010	Barium	107	ug/L	10.0	12/01/18 21:21	
EPA 6010	Iron	22200	ug/L	40.0	12/01/18 21:21	
EPA 6010	Sodium	29.5	mg/L	2.0	12/01/18 21:21	
EPA 6010	Vanadium	1.2 I	ug/L	10.0	12/01/18 21:21	
SM 2540C	Total Dissolved Solids	206	mg/L	5.0	11/21/18 15:37	
EPA 300.0	Chloride	77.3	mg/L	5.0	11/26/18 15:21	
EPA 350.1	Nitrogen, Ammonia	0.090	mg/L	0.050	11/16/18 10:31	
EPA 353.2	Nitrogen, Nitrate	0.18	mg/L	0.050	11/16/18 08:40	
35431370003	**B38-2**					
	Field pH	5.90	Std. Units		11/15/18 11:58	
	Field Temperature	23.3	deg C		11/15/18 11:58	
	Appearance	Color: yellow, Sheen: none			11/15/18 11:58	
	Field Specific Conductance	587	umhos/cm		11/15/18 11:58	
	Oxygen, Dissolved	2.87	mg/L		11/15/18 11:58	
	REDOX	-62.1	mV		11/15/18 11:58	
	Turbidity	9.94	NTU		11/15/18 11:58	
	Water Level(NGVD)	26.80	feet		11/15/18 11:58	
EPA 6010	Barium	36.6	ug/L	10.0	12/01/18 21:24	
EPA 6010	Cobalt	1.2 I	ug/L	10.0	12/01/18 21:24	
EPA 6010	Iron	13500	ug/L	40.0	12/01/18 21:24	
EPA 6010	Nickel	2.3 I	ug/L	5.0	12/01/18 21:24	
EPA 6010	Sodium	28.2	mg/L	2.0	12/01/18 21:24	
EPA 6010	Vanadium	2.4 I	ug/L	10.0	12/01/18 21:24	
EPA 6020	Arsenic	2.5	ug/L	1.0	12/03/18 16:15	
SM 2540C	Total Dissolved Solids	363	mg/L	5.0	11/21/18 15:37	
EPA 300.0	Chloride	28.9	mg/L	5.0	11/26/18 15:43	
EPA 350.1	Nitrogen, Ammonia	1.7	mg/L	0.050	11/16/18 10:33	
EPA 353.2	Nitrogen, Nitrate	0.13	mg/L	0.050	11/16/18 08:46	
35431370004	**B63-1**					
	Field pH	6.83	Std. Units		11/15/18 12:33	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35431370004	**B63-1**					
	Field Temperature	24.0	deg C		11/15/18 12:33	
	Appearance	Color: yellow, Sheen: none			11/15/18 12:33	
	Field Specific Conductance	498	umhos/cm		11/15/18 12:33	
	Oxygen, Dissolved	0.59	mg/L		11/15/18 12:33	
	REDOX	-43.1	mV		11/15/18 12:33	
	Turbidity	5.81	NTU		11/15/18 12:33	
	Water Level(NGVD)	28.53	feet		11/15/18 12:33	
EPA 6010	Barium	38.1	ug/L	10.0	12/01/18 21:35	
EPA 6010	Iron	2540	ug/L	40.0	12/01/18 21:35	
EPA 6010	Sodium	46.0	mg/L	2.0	12/01/18 21:35	
EPA 6010	Vanadium	1.1 I	ug/L	10.0	12/01/18 21:35	
SM 2540C	Total Dissolved Solids	302	mg/L	5.0	11/21/18 15:37	
EPA 300.0	Chloride	38.3	mg/L	5.0	11/26/18 16:50	
EPA 350.1	Nitrogen, Ammonia	0.11	mg/L	0.050	11/16/18 10:35	
35431370005	**B63-2**					
	Field pH	6.74	Std. Units		11/15/18 13:01	
	Field Temperature	24.1	deg C		11/15/18 13:01	
	Appearance	Color: yellow, Sheen: none			11/15/18 13:01	
	Field Specific Conductance	713	umhos/cm		11/15/18 13:01	
	Oxygen, Dissolved	3.00	mg/L		11/15/18 13:01	
	REDOX	-102.6	mV		11/15/18 13:01	
	Turbidity	17.57	NTU		11/15/18 13:01	
	Water Level(NGVD)	28.57	feet		11/15/18 13:01	
EPA 6010	Barium	49.5	ug/L	10.0	12/01/18 21:38	
EPA 6010	Iron	11300	ug/L	40.0	12/01/18 21:38	
EPA 6010	Sodium	31.5	mg/L	2.0	12/01/18 21:38	
EPA 6010	Vanadium	2.4 I	ug/L	10.0	12/01/18 21:38	
EPA 6020	Arsenic	2.1	ug/L	1.0	12/03/18 16:18	
SM 2540C	Total Dissolved Solids	423	mg/L	5.0	11/21/18 15:37	
EPA 300.0	Chloride	29.3	mg/L	5.0	11/26/18 17:13	
EPA 350.1	Nitrogen, Ammonia	0.30	mg/L	0.050	11/16/18 10:37	
EPA 353.2	Nitrogen, Nitrate	0.056	mg/L	0.050	11/16/18 08:57	
35431370006	**B85**					
	Field pH	6.51	Std. Units		11/15/18 12:07	
	Field Temperature	22.4	deg C		11/15/18 12:07	
	Appearance	Color: yellow, Sheen: none			11/15/18 12:07	
	Field Specific Conductance	1785	umhos/cm		11/15/18 12:07	
	Oxygen, Dissolved	0.31	mg/L		11/15/18 12:07	
	Turbidity	4.16	NTU		11/15/18 12:07	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35431370006	**B85**					
	Water Level(NGVD)	21.07	feet		11/15/18 12:07	
EPA 6010	Barium	48.5	ug/L	10.0	12/01/18 21:47	
EPA 6010	Chromium	3.6 I	ug/L	5.0	12/01/18 21:47	
EPA 6010	Cobalt	2.3 I	ug/L	10.0	12/01/18 21:47	
EPA 6010	Iron	6220	ug/L	40.0	12/01/18 21:47	
EPA 6010	Sodium	111	mg/L	2.0	12/01/18 21:47	
EPA 6010	Vanadium	4.2 I	ug/L	10.0	12/01/18 21:47	
EPA 8260	Benzene	0.17 I	ug/L	1.0	11/28/18 05:06	
EPA 8260	Chlorobenzene	3.2	ug/L	1.0	11/28/18 05:06	
EPA 8260	1,4-Dichlorobenzene	0.89 I	ug/L	1.0	11/28/18 05:06	
SM 2540C	Total Dissolved Solids	958	mg/L	10.0	11/21/18 15:37	
EPA 300.0	Chloride	127	mg/L	25.0	11/26/18 17:35	
EPA 350.1	Nitrogen, Ammonia	19.1	mg/L	0.050	11/16/18 10:38	
EPA 353.2	Nitrogen, Nitrate	0.058	mg/L	0.050	11/16/18 08:47	
35431370007	**B85 Dup**					
	Field pH	6.51	Std. Units		11/15/18 12:07	
	Field Temperature	22.4	deg C		11/15/18 12:07	
	Appearance	Color: yellow, Sheen: none			11/15/18 12:07	
	Field Specific Conductance	1785	umhos/cm		11/15/18 12:07	
	Oxygen, Dissolved	0.31	mg/L		11/15/18 12:07	
	Turbidity	4.16	NTU		11/15/18 12:07	
	Water Level(NGVD)	21.07	feet		11/15/18 12:07	
EPA 6010	Barium	47.6	ug/L	10.0	12/01/18 21:50	
EPA 6010	Chromium	3.4 I	ug/L	5.0	12/01/18 21:50	
EPA 6010	Cobalt	1.6 I	ug/L	10.0	12/01/18 21:50	
EPA 6010	Iron	6090	ug/L	40.0	12/01/18 21:50	
EPA 6010	Sodium	109	mg/L	2.0	12/01/18 21:50	
EPA 6010	Vanadium	4.2 I	ug/L	10.0	12/01/18 21:50	
EPA 8260	Benzene	0.17 I	ug/L	1.0	11/28/18 05:30	
EPA 8260	Chlorobenzene	3.3	ug/L	1.0	11/28/18 05:30	
EPA 8260	1,4-Dichlorobenzene	0.90 I	ug/L	1.0	11/28/18 05:30	
SM 2540C	Total Dissolved Solids	976	mg/L	10.0	11/21/18 15:37	
EPA 300.0	Chloride	126	mg/L	25.0	11/26/18 17:58	
EPA 350.1	Nitrogen, Ammonia	19.0	mg/L	0.050	11/16/18 10:40	
EPA 353.2	Nitrogen, Nitrate	0.054	mg/L	0.050	11/16/18 08:51	
35431370008	**B85-6**					
	Field pH	6.44	Std. Units		11/15/18 12:45	
	Field Temperature	22.6	deg C		11/15/18 12:45	
	Appearance	Color: none, Sheen: none			11/15/18 12:45	
	Field Specific Conductance	2245	umhos/cm		11/15/18 12:45	
	Oxygen, Dissolved	0.14	mg/L		11/15/18 12:45	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35431370008	**B85-6**					
	REDOX	-46.8	mV		11/15/18 12:45	
	Turbidity	90.3	NTU		11/15/18 12:45	
	Water Level(NGVD)	20.97	feet		11/15/18 12:45	
EPA 6010	Barium	55.3	ug/L	10.0	12/01/18 21:53	
EPA 6010	Chromium	6.5	ug/L	5.0	12/01/18 21:53	
EPA 6010	Cobalt	3.2 I	ug/L	10.0	12/01/18 21:53	
EPA 6010	Iron	12700	ug/L	40.0	12/01/18 21:53	
EPA 6010	Nickel	2.4 I	ug/L	5.0	12/01/18 21:53	
EPA 6010	Sodium	166	mg/L	2.0	12/01/18 21:53	
EPA 6010	Vanadium	11.8	ug/L	10.0	12/01/18 21:53	
EPA 6020	Arsenic	2.6	ug/L	1.0	12/03/18 16:21	
EPA 8260	Benzene	1.3	ug/L	1.0	11/28/18 05:54	
EPA 8260	Chlorobenzene	4.1	ug/L	1.0	11/28/18 05:54	
EPA 8260	1,4-Dichlorobenzene	0.69 I	ug/L	1.0	11/28/18 05:54	
SM 2540C	Total Dissolved Solids	1280	mg/L	20.0	11/21/18 15:37	
EPA 300.0	Chloride	204	mg/L	50.0	11/26/18 18:20	
EPA 350.1	Nitrogen, Ammonia	19.9	mg/L	0.050	11/16/18 10:42	
EPA 353.2	Nitrogen, Nitrate	0.091	mg/L	0.050	11/16/18 08:55	
35431370009	**B82-1**					
	Field pH	6.28	Std. Units		11/15/18 13:44	
	Field Temperature	25.1	deg C		11/15/18 13:44	
	Appearance	Color: none, Sheen: none			11/15/18 13:44	
	Field Specific Conductance	460.3	umhos/cm		11/15/18 13:44	
	Oxygen, Dissolved	0.12	mg/L		11/15/18 13:44	
	REDOX	-29.1	mV		11/15/18 13:44	
	Turbidity	15.8	NTU		11/15/18 13:44	
	Water Level(NGVD)	23.78	feet		11/15/18 13:44	
EPA 6010	Barium	46.5	ug/L	10.0	12/01/18 21:55	
EPA 6010	Iron	11600	ug/L	40.0	12/01/18 21:55	
EPA 6010	Nickel	2.6 I	ug/L	5.0	12/01/18 21:55	
EPA 6010	Sodium	14.9	mg/L	2.0	12/01/18 21:55	
EPA 6010	Vanadium	5.8 I	ug/L	10.0	12/01/18 21:55	
SM 2540C	Total Dissolved Solids	286	mg/L	5.0	11/21/18 15:37	
EPA 300.0	Chloride	39.7	mg/L	5.0	11/26/18 18:43	
EPA 350.1	Nitrogen, Ammonia	0.12	mg/L	0.050	11/16/18 10:44	
EPA 353.2	Nitrogen, Nitrate	0.12	mg/L	0.050	11/16/18 09:06	
35431370010	**B87-6**					
	Field pH	6.86	Std. Units		11/15/18 14:50	
	Field Temperature	23.1	deg C		11/15/18 14:50	
	Appearance	Color: none, Sheen:none			11/15/18 14:50	
	Field Specific Conductance	685	umhos/cm		11/15/18 14:50	
	Oxygen, Dissolved	0.11	mg/L		11/15/18 14:50	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35431370010	**B87-6**					
	REDOX	-72.1	mV		11/15/18 14:50	
	Turbidity	11.8	NTU		11/15/18 14:50	
	Water Level(NGVD)	20.49	feet		11/15/18 14:50	
EPA 6010	Barium	28.0	ug/L	10.0	12/01/18 21:58	
EPA 6010	Iron	4320	ug/L	40.0	12/01/18 21:58	
EPA 6010	Sodium	25.3	mg/L	2.0	12/01/18 21:58	
EPA 6010	Vanadium	2.4 I	ug/L	10.0	12/01/18 21:58	
SM 2540C	Total Dissolved Solids	431	mg/L	5.0	11/21/18 15:38	
EPA 300.0	Chloride	28.2	mg/L	5.0	11/26/18 19:05	
EPA 350.1	Nitrogen, Ammonia	0.13	mg/L	0.050	11/16/18 10:46	
EPA 353.2	Nitrogen, Nitrate	0.032 I	mg/L	0.050	11/16/18 09:10	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: EQ Blank 11/15/18 **Lab ID: 35431370001** Collected: 11/15/18 10:00 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 20:44	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/24/18 09:05	11/25/18 20:44	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**10.9**	ug/L	10.0	0.84	1	11/29/18 15:47	12/01/18 21:18	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/29/18 15:47	12/01/18 21:18	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/29/18 15:47	12/01/18 21:18	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/29/18 15:47	12/01/18 21:18	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/29/18 15:47	12/01/18 21:18	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/29/18 15:47	12/01/18 21:18	7440-50-8	
Iron	**14.5 I**	ug/L	40.0	9.2	1	11/29/18 15:47	12/01/18 21:18	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/29/18 15:47	12/01/18 21:18	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/29/18 15:47	12/01/18 21:18	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/29/18 15:47	12/01/18 21:18	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/29/18 15:47	12/01/18 21:18	7440-22-4	
Sodium	**0.27 U**	mg/L	2.0	0.27	1	11/29/18 15:47	12/01/18 21:18	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/29/18 15:47	12/01/18 21:18	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/29/18 15:47	12/01/18 21:18	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:07	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:07	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 10:58	11/29/18 18:14	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 01:55	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 01:55	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 01:55	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 01:55	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 01:55	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 01:55	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 01:55	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 01:55	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 01:55	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 01:55	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 01:55	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 01:55	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: EQ Blank 11/15/18 **Lab ID: 35431370001** Collected: 11/15/18 10:00 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 01:55	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 01:55	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 01:55	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 01:55	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 01:55	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 01:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 01:55	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 01:55	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 01:55	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 01:55	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 01:55	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 01:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/28/18 01:55	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/28/18 01:55	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/28/18 01:55	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		11/21/18 15:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5 U**	mg/L	5.0	2.5	1		11/26/18 14:58	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/16/18 10:29	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/16/18 08:21	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B38-1 **Lab ID: 35431370002** Collected: 11/15/18 11:26 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**4.80**	Std. Units			1		11/15/18 11:26		
Field Temperature	**23.0**	deg C			1		11/15/18 11:26		
Appearance	**Color: none, Sheen: none**				1		11/15/18 11:26		
Field Specific Conductance	**309**	umhos/cm			1		11/15/18 11:26		
Oxygen, Dissolved	**4.78**	mg/L			1		11/15/18 11:26	7782-44-7	
REDOX	**115.8**	mV			1		11/15/18 11:26		
Turbidity	**1.34**	NTU			1		11/15/18 11:26		
Water Level(NGVD)	**25.26**	feet			1		11/15/18 11:26		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 21:28	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/24/18 09:05	11/25/18 21:28	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**107**	ug/L	10.0	0.84	1	11/29/18 15:47	12/01/18 21:21	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/29/18 15:47	12/01/18 21:21	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/29/18 15:47	12/01/18 21:21	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/29/18 15:47	12/01/18 21:21	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/29/18 15:47	12/01/18 21:21	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/29/18 15:47	12/01/18 21:21	7440-50-8	
Iron	**22200**	ug/L	40.0	9.2	1	11/29/18 15:47	12/01/18 21:21	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/29/18 15:47	12/01/18 21:21	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/29/18 15:47	12/01/18 21:21	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/29/18 15:47	12/01/18 21:21	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/29/18 15:47	12/01/18 21:21	7440-22-4	
Sodium	**29.5**	mg/L	2.0	0.27	1	11/29/18 15:47	12/01/18 21:21	7440-23-5	
Vanadium	**1.2 I**	ug/L	10.0	1.0	1	11/29/18 15:47	12/01/18 21:21	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/29/18 15:47	12/01/18 21:21	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:11	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:11	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 10:58	11/29/18 18:20	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 03:07	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:07	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 03:07	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 03:07	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B38-1 **Lab ID: 35431370002** Collected: 11/15/18 11:26 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 03:07	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:07	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:07	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 03:07	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 03:07	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 03:07	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 03:07	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 03:07	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:07	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 03:07	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 03:07	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:07	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 03:07	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 03:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:07	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 03:07	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 03:07	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 03:07	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:07	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 03:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/28/18 03:07	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/28/18 03:07	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/28/18 03:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B38-1 **Lab ID: 35431370002** Collected: 11/15/18 11:26 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**206**	mg/L	5.0	5.0	1		11/21/18 15:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**77.3**	mg/L	5.0	2.5	1		11/26/18 15:21	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.090**	mg/L	0.050	0.035	1		11/16/18 10:31	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.18**	mg/L	0.050	0.025	1		11/16/18 08:40	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B38-2 **Lab ID: 35431370003** Collected: 11/15/18 11:58 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.90**	Std. Units			1		11/15/18 11:58		
Field Temperature	**23.3**	deg C			1		11/15/18 11:58		
Appearance	**Color: yellow, Sheen: none**				1		11/15/18 11:58		
Field Specific Conductance	**587**	umhos/cm			1		11/15/18 11:58		
Oxygen, Dissolved	**2.87**	mg/L			1		11/15/18 11:58	7782-44-7	
REDOX	**-62.1**	mV			1		11/15/18 11:58		
Turbidity	**9.94**	NTU			1		11/15/18 11:58		
Water Level(NGVD)	**26.80**	feet			1		11/15/18 11:58		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 22:26	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/24/18 09:05	11/25/18 22:26	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**36.6**	ug/L	10.0	0.84	1	11/29/18 15:47	12/01/18 21:24	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/29/18 15:47	12/01/18 21:24	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/29/18 15:47	12/01/18 21:24	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/29/18 15:47	12/01/18 21:24	7440-47-3	
Cobalt	**1.2 I**	ug/L	10.0	0.96	1	11/29/18 15:47	12/01/18 21:24	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/29/18 15:47	12/01/18 21:24	7440-50-8	
Iron	**13500**	ug/L	40.0	9.2	1	11/29/18 15:47	12/01/18 21:24	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/29/18 15:47	12/01/18 21:24	7439-92-1	
Nickel	**2.3 I**	ug/L	5.0	2.1	1	11/29/18 15:47	12/01/18 21:24	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/29/18 15:47	12/01/18 21:24	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/29/18 15:47	12/01/18 21:24	7440-22-4	
Sodium	**28.2**	mg/L	2.0	0.27	1	11/29/18 15:47	12/01/18 21:24	7440-23-5	
Vanadium	**2.4 I**	ug/L	10.0	1.0	1	11/29/18 15:47	12/01/18 21:24	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/29/18 15:47	12/01/18 21:24	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:15	7440-36-0	
Arsenic	**2.5**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:15	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 10:58	11/29/18 18:24	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 03:54	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:54	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 03:54	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 03:54	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B38-2 **Lab ID: 35431370003** Collected: 11/15/18 11:58 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 03:54	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:54	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:54	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 03:54	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 03:54	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 03:54	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 03:54	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 03:54	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:54	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 03:54	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 03:54	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:54	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 03:54	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 03:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 03:54	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 03:54	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 03:54	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 03:54	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 03:54	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 03:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/28/18 03:54	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/28/18 03:54	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/28/18 03:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B38-2 **Lab ID: 35431370003** Collected: 11/15/18 11:58 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**363**	mg/L	5.0	5.0	1		11/21/18 15:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**28.9**	mg/L	5.0	2.5	1		11/26/18 15:43	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.7**	mg/L	0.050	0.035	1		11/16/18 10:33	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.13**	mg/L	0.050	0.025	1		11/16/18 08:46	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B63-1 **Lab ID: 35431370004** Collected: 11/15/18 12:33 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.83**	Std. Units			1		11/15/18 12:33		
Field Temperature	**24.0**	deg C			1		11/15/18 12:33		
Appearance	**Color: yellow, Sheen: none**				1		11/15/18 12:33		
Field Specific Conductance	**498**	umhos/cm			1		11/15/18 12:33		
Oxygen, Dissolved	**0.59**	mg/L			1		11/15/18 12:33	7782-44-7	
REDOX	**-43.1**	mV			1		11/15/18 12:33		
Turbidity	**5.81**	NTU			1		11/15/18 12:33		
Water Level(NGVD)	**28.53**	feet			1		11/15/18 12:33		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 22:41	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/24/18 09:05	11/25/18 22:41	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**38.1**	ug/L	10.0	0.84	1	11/29/18 15:47	12/01/18 21:35	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/29/18 15:47	12/01/18 21:35	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/29/18 15:47	12/01/18 21:35	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/29/18 15:47	12/01/18 21:35	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/29/18 15:47	12/01/18 21:35	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/29/18 15:47	12/01/18 21:35	7440-50-8	
Iron	**2540**	ug/L	40.0	9.2	1	11/29/18 15:47	12/01/18 21:35	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/29/18 15:47	12/01/18 21:35	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/29/18 15:47	12/01/18 21:35	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/29/18 15:47	12/01/18 21:35	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/29/18 15:47	12/01/18 21:35	7440-22-4	
Sodium	**46.0**	mg/L	2.0	0.27	1	11/29/18 15:47	12/01/18 21:35	7440-23-5	
Vanadium	**1.1 I**	ug/L	10.0	1.0	1	11/29/18 15:47	12/01/18 21:35	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/29/18 15:47	12/01/18 21:35	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:16	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:16	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 10:58	11/29/18 18:31	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 04:18	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:18	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 04:18	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 04:18	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B63-1 **Lab ID: 35431370004** Collected: 11/15/18 12:33 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 04:18	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:18	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:18	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 04:18	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 04:18	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 04:18	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 04:18	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 04:18	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:18	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 04:18	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 04:18	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:18	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 04:18	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 04:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:18	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 04:18	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 04:18	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 04:18	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:18	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 04:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/28/18 04:18	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/28/18 04:18	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/28/18 04:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B63-1 **Lab ID: 35431370004** Collected: 11/15/18 12:33 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**302**	mg/L	5.0	5.0	1		11/21/18 15:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**38.3**	mg/L	5.0	2.5	1		11/26/18 16:50	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.11**	mg/L	0.050	0.035	1		11/16/18 10:35	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/16/18 08:53	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B63-2 **Lab ID: 35431370005** Collected: 11/15/18 13:01 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.74**	Std. Units			1		11/15/18 13:01		
Field Temperature	**24.1**	deg C			1		11/15/18 13:01		
Appearance	**Color: yellow, Sheen: none**				1		11/15/18 13:01		
Field Specific Conductance	**713**	umhos/cm			1		11/15/18 13:01		
Oxygen, Dissolved	**3.00**	mg/L			1		11/15/18 13:01	7782-44-7	
REDOX	**-102.6**	mV			1		11/15/18 13:01		
Turbidity	**17.57**	NTU			1		11/15/18 13:01		
Water Level(NGVD)	**28.57**	feet			1		11/15/18 13:01		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0064 U**	ug/L	0.020	0.0064	1	11/24/18 09:05	11/25/18 22:55	96-12-8	
1,2-Dibromoethane (EDB)	**0.0075 U**	ug/L	0.010	0.0075	1	11/24/18 09:05	11/25/18 22:55	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**49.5**	ug/L	10.0	0.84	1	11/29/18 15:47	12/01/18 21:38	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/29/18 15:47	12/01/18 21:38	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/29/18 15:47	12/01/18 21:38	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/29/18 15:47	12/01/18 21:38	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/29/18 15:47	12/01/18 21:38	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/29/18 15:47	12/01/18 21:38	7440-50-8	
Iron	**11300**	ug/L	40.0	9.2	1	11/29/18 15:47	12/01/18 21:38	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/29/18 15:47	12/01/18 21:38	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/29/18 15:47	12/01/18 21:38	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/29/18 15:47	12/01/18 21:38	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/29/18 15:47	12/01/18 21:38	7440-22-4	
Sodium	**31.5**	mg/L	2.0	0.27	1	11/29/18 15:47	12/01/18 21:38	7440-23-5	
Vanadium	**2.4 I**	ug/L	10.0	1.0	1	11/29/18 15:47	12/01/18 21:38	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/29/18 15:47	12/01/18 21:38	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:18	7440-36-0	
Arsenic	**2.1**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:18	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 10:58	11/29/18 18:33	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 04:42	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:42	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 04:42	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 04:42	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B63-2 **Lab ID: 35431370005** Collected: 11/15/18 13:01 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 04:42	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:42	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:42	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 04:42	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 04:42	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 04:42	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 04:42	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 04:42	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:42	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 04:42	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 04:42	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:42	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 04:42	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 04:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 04:42	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 04:42	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 04:42	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 04:42	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 04:42	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 04:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/28/18 04:42	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/28/18 04:42	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/28/18 04:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B63-2 **Lab ID: 35431370005** Collected: 11/15/18 13:01 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**423**	mg/L	5.0	5.0	1		11/21/18 15:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**29.3**	mg/L	5.0	2.5	1		11/26/18 17:13	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.30**	mg/L	0.050	0.035	1		11/16/18 10:37	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.056**	mg/L	0.050	0.025	1		11/16/18 08:57	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B85 **Lab ID: 35431370006** Collected: 11/15/18 12:07 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.51**	Std. Units			1		11/15/18 12:07		
Field Temperature	**22.4**	deg C			1		11/15/18 12:07		
Appearance	**Color: yellow, Sheen: none**				1		11/15/18 12:07		
Field Specific Conductance	**1785**	umhos/cm			1		11/15/18 12:07		
Oxygen, Dissolved	**0.31**	mg/L			1		11/15/18 12:07	7782-44-7	
Turbidity	**4.16**	NTU			1		11/15/18 12:07		
Water Level(NGVD)	**21.07**	feet			1		11/15/18 12:07		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 23:10	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/24/18 09:05	11/25/18 23:10	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**48.5**	ug/L	10.0	0.84	1	11/29/18 15:47	12/01/18 21:47	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/29/18 15:47	12/01/18 21:47	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/29/18 15:47	12/01/18 21:47	7440-43-9	
Chromium	**3.6 I**	ug/L	5.0	1.7	1	11/29/18 15:47	12/01/18 21:47	7440-47-3	
Cobalt	**2.3 I**	ug/L	10.0	0.96	1	11/29/18 15:47	12/01/18 21:47	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/29/18 15:47	12/01/18 21:47	7440-50-8	
Iron	**6220**	ug/L	40.0	9.2	1	11/29/18 15:47	12/01/18 21:47	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/29/18 15:47	12/01/18 21:47	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/29/18 15:47	12/01/18 21:47	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/29/18 15:47	12/01/18 21:47	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/29/18 15:47	12/01/18 21:47	7440-22-4	
Sodium	**111**	mg/L	2.0	0.27	1	11/29/18 15:47	12/01/18 21:47	7440-23-5	
Vanadium	**4.2 I**	ug/L	10.0	1.0	1	11/29/18 15:47	12/01/18 21:47	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/29/18 15:47	12/01/18 21:47	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:19	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:19	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 10:58	11/29/18 18:48	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 05:06	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:06	107-13-1	
Benzene	**0.17 I**	ug/L	1.0	0.10	1		11/28/18 05:06	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 05:06	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	75-25-2	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B85 **Lab ID: 35431370006** Collected: 11/15/18 12:07 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 05:06	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:06	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:06	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 05:06	56-23-5	
Chlorobenzene	**3.2**	ug/L	1.0	0.50	1		11/28/18 05:06	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 05:06	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 05:06	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 05:06	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 05:06	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	95-50-1	
1,4-Dichlorobenzene	**0.89 I**	ug/L	1.0	0.50	1		11/28/18 05:06	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:06	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 05:06	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 05:06	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:06	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 05:06	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 05:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:06	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 05:06	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 05:06	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 05:06	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:06	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 05:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/28/18 05:06	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/28/18 05:06	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/28/18 05:06	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**958**	mg/L	10.0	10.0	1		11/21/18 15:37		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B85 **Lab ID: 35431370006** Collected: 11/15/18 12:07 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**127**	mg/L	25.0	12.5	5		11/26/18 17:35	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**19.1**	mg/L	0.050	0.035	1		11/16/18 10:38	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.058**	mg/L	0.050	0.025	1		11/16/18 08:47	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B85 Dup **Lab ID: 35431370007** Collected: 11/15/18 12:07 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.51**	Std. Units			1		11/15/18 12:07		
Field Temperature	**22.4**	deg C			1		11/15/18 12:07		
Appearance	**Color: yellow, Sheen: none**				1		11/15/18 12:07		
Field Specific Conductance	**1785**	umhos/cm			1		11/15/18 12:07		
Oxygen, Dissolved	**0.31**	mg/L			1		11/15/18 12:07	7782-44-7	
Turbidity	**4.16**	NTU			1		11/15/18 12:07		
Water Level(NGVD)	**21.07**	feet			1		11/15/18 12:07		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/24/18 09:05	11/25/18 23:25	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/24/18 09:05	11/25/18 23:25	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**47.6**	ug/L	10.0	0.84	1	11/29/18 15:47	12/01/18 21:50	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/29/18 15:47	12/01/18 21:50	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/29/18 15:47	12/01/18 21:50	7440-43-9	
Chromium	**3.4 I**	ug/L	5.0	1.7	1	11/29/18 15:47	12/01/18 21:50	7440-47-3	
Cobalt	**1.6 I**	ug/L	10.0	0.96	1	11/29/18 15:47	12/01/18 21:50	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/29/18 15:47	12/01/18 21:50	7440-50-8	
Iron	**6090**	ug/L	40.0	9.2	1	11/29/18 15:47	12/01/18 21:50	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/29/18 15:47	12/01/18 21:50	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/29/18 15:47	12/01/18 21:50	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/29/18 15:47	12/01/18 21:50	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/29/18 15:47	12/01/18 21:50	7440-22-4	
Sodium	**109**	mg/L	2.0	0.27	1	11/29/18 15:47	12/01/18 21:50	7440-23-5	
Vanadium	**4.2 I**	ug/L	10.0	1.0	1	11/29/18 15:47	12/01/18 21:50	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/29/18 15:47	12/01/18 21:50	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:20	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:20	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 10:58	11/29/18 18:37	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 05:30	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:30	107-13-1	
Benzene	**0.17 I**	ug/L	1.0	0.10	1		11/28/18 05:30	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 05:30	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	75-25-2	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B85 Dup **Lab ID: 35431370007** Collected: 11/15/18 12:07 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 05:30	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:30	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:30	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 05:30	56-23-5	
Chlorobenzene	**3.3**	ug/L	1.0	0.50	1		11/28/18 05:30	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 05:30	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 05:30	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 05:30	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 05:30	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	95-50-1	
1,4-Dichlorobenzene	**0.90 I**	ug/L	1.0	0.50	1		11/28/18 05:30	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:30	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 05:30	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 05:30	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:30	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 05:30	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 05:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:30	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 05:30	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 05:30	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 05:30	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:30	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 05:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/28/18 05:30	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/28/18 05:30	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/28/18 05:30	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**976**	mg/L	10.0	10.0	1		11/21/18 15:37		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B85 Dup **Lab ID: 35431370007** Collected: 11/15/18 12:07 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**126**	mg/L	25.0	12.5	5		11/26/18 17:58	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**19.0**	mg/L	0.050	0.035	1		11/16/18 10:40	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.054**	mg/L	0.050	0.025	1		11/16/18 08:51	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B85-6 **Lab ID: 35431370008** Collected: 11/15/18 12:45 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.44**	Std. Units			1		11/15/18 12:45		
Field Temperature	**22.6**	deg C			1		11/15/18 12:45		
Appearance	**Color: none, Sheen: none**				1		11/15/18 12:45		
Field Specific Conductance	**2245**	umhos/cm			1		11/15/18 12:45		
Oxygen, Dissolved	**0.14**	mg/L			1		11/15/18 12:45	7782-44-7	
REDOX	**-46.8**	mV			1		11/15/18 12:45		
Turbidity	**90.3**	NTU			1		11/15/18 12:45		
Water Level(NGVD)	**20.97**	feet			1		11/15/18 12:45		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 23:39	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/24/18 09:05	11/25/18 23:39	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**55.3**	ug/L	10.0	0.84	1	11/29/18 15:47	12/01/18 21:53	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/29/18 15:47	12/01/18 21:53	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/29/18 15:47	12/01/18 21:53	7440-43-9	
Chromium	**6.5**	ug/L	5.0	1.7	1	11/29/18 15:47	12/01/18 21:53	7440-47-3	
Cobalt	**3.2 I**	ug/L	10.0	0.96	1	11/29/18 15:47	12/01/18 21:53	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/29/18 15:47	12/01/18 21:53	7440-50-8	
Iron	**12700**	ug/L	40.0	9.2	1	11/29/18 15:47	12/01/18 21:53	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/29/18 15:47	12/01/18 21:53	7439-92-1	
Nickel	**2.4 I**	ug/L	5.0	2.1	1	11/29/18 15:47	12/01/18 21:53	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/29/18 15:47	12/01/18 21:53	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/29/18 15:47	12/01/18 21:53	7440-22-4	
Sodium	**166**	mg/L	2.0	0.27	1	11/29/18 15:47	12/01/18 21:53	7440-23-5	
Vanadium	**11.8**	ug/L	10.0	1.0	1	11/29/18 15:47	12/01/18 21:53	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/29/18 15:47	12/01/18 21:53	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:21	7440-36-0	
Arsenic	**2.6**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:21	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 10:58	11/29/18 18:39	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 05:54	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:54	107-13-1	
Benzene	**1.3**	ug/L	1.0	0.10	1		11/28/18 05:54	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 05:54	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B85-6 **Lab ID: 35431370008** Collected: 11/15/18 12:45 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 05:54	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:54	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:54	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 05:54	56-23-5	
Chlorobenzene	**4.1**	ug/L	1.0	0.50	1		11/28/18 05:54	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 05:54	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 05:54	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 05:54	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 05:54	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	95-50-1	
1,4-Dichlorobenzene	**0.69 I**	ug/L	1.0	0.50	1		11/28/18 05:54	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:54	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 05:54	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 05:54	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:54	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 05:54	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 05:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 05:54	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 05:54	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 05:54	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 05:54	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 05:54	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 05:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/28/18 05:54	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		11/28/18 05:54	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/28/18 05:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B85-6 **Lab ID: 35431370008** Collected: 11/15/18 12:45 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1280**	mg/L	20.0	20.0	1		11/21/18 15:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**204**	mg/L	50.0	25.0	10		11/26/18 18:20	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**19.9**	mg/L	0.050	0.035	1		11/16/18 10:42	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.091**	mg/L	0.050	0.025	1		11/16/18 08:55	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B82-1 **Lab ID: 35431370009** Collected: 11/15/18 13:44 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.28**	Std. Units			1		11/15/18 13:44		
Field Temperature	**25.1**	deg C			1		11/15/18 13:44		
Appearance	**Color: none, Sheen: none**				1		11/15/18 13:44		
Field Specific Conductance	**460.3**	umhos/cm			1		11/15/18 13:44		
Oxygen, Dissolved	**0.12**	mg/L			1		11/15/18 13:44	7782-44-7	
REDOX	**-29.1**	mV			1		11/15/18 13:44		
Turbidity	**15.8**	NTU			1		11/15/18 13:44		
Water Level(NGVD)	**23.78**	feet			1		11/15/18 13:44		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/25/18 23:54	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/24/18 09:05	11/25/18 23:54	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**46.5**	ug/L	10.0	0.84	1	11/29/18 15:47	12/01/18 21:55	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/29/18 15:47	12/01/18 21:55	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/29/18 15:47	12/01/18 21:55	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/29/18 15:47	12/01/18 21:55	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/29/18 15:47	12/01/18 21:55	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/29/18 15:47	12/01/18 21:55	7440-50-8	
Iron	**11600**	ug/L	40.0	9.2	1	11/29/18 15:47	12/01/18 21:55	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/29/18 15:47	12/01/18 21:55	7439-92-1	
Nickel	**2.6 I**	ug/L	5.0	2.1	1	11/29/18 15:47	12/01/18 21:55	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/29/18 15:47	12/01/18 21:55	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/29/18 15:47	12/01/18 21:55	7440-22-4	
Sodium	**14.9**	mg/L	2.0	0.27	1	11/29/18 15:47	12/01/18 21:55	7440-23-5	
Vanadium	**5.8 I**	ug/L	10.0	1.0	1	11/29/18 15:47	12/01/18 21:55	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/29/18 15:47	12/01/18 21:55	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:25	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:25	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 10:58	11/29/18 18:41	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 06:17	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:17	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 06:17	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 06:17	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B82-1 **Lab ID: 35431370009** Collected: 11/15/18 13:44 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 06:17	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:17	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:17	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 06:17	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 06:17	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 06:17	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 06:17	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 06:17	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:17	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 06:17	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 06:17	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:17	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 06:17	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 06:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:17	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 06:17	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 06:17	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 06:17	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:17	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 06:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/28/18 06:17	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/28/18 06:17	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/28/18 06:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B82-1 **Lab ID: 35431370009** Collected: 11/15/18 13:44 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**286**	mg/L	5.0	5.0	1		11/21/18 15:37		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**39.7**	mg/L	5.0	2.5	1		11/26/18 18:43	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.12**	mg/L	0.050	0.035	1		11/16/18 10:44	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.12**	mg/L	0.050	0.025	1		11/16/18 09:06	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B87-6 **Lab ID: 35431370010** Collected: 11/15/18 14:50 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.86**	Std. Units			1		11/15/18 14:50		
Field Temperature	**23.1**	deg C			1		11/15/18 14:50		
Appearance	**Color: none, Sheen:none**				1		11/15/18 14:50		
Field Specific Conductance	**685**	umhos/cm			1		11/15/18 14:50		
Oxygen, Dissolved	**0.11**	mg/L			1		11/15/18 14:50	7782-44-7	
REDOX	**-72.1**	mV			1		11/15/18 14:50		
Turbidity	**11.8**	NTU			1		11/15/18 14:50		
Water Level(NGVD)	**20.49**	feet			1		11/15/18 14:50		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/26/18 00:09	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/24/18 09:05	11/26/18 00:09	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**28.0**	ug/L	10.0	0.84	1	11/29/18 15:47	12/01/18 21:58	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/29/18 15:47	12/01/18 21:58	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/29/18 15:47	12/01/18 21:58	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/29/18 15:47	12/01/18 21:58	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/29/18 15:47	12/01/18 21:58	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/29/18 15:47	12/01/18 21:58	7440-50-8	
Iron	**4320**	ug/L	40.0	9.2	1	11/29/18 15:47	12/01/18 21:58	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/29/18 15:47	12/01/18 21:58	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/29/18 15:47	12/01/18 21:58	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/29/18 15:47	12/01/18 21:58	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/29/18 15:47	12/01/18 21:58	7440-22-4	
Sodium	**25.3**	mg/L	2.0	0.27	1	11/29/18 15:47	12/01/18 21:58	7440-23-5	
Vanadium	**2.4 I**	ug/L	10.0	1.0	1	11/29/18 15:47	12/01/18 21:58	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/29/18 15:47	12/01/18 21:58	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:26	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:26	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/29/18 15:47	12/03/18 16:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	11/29/18 10:58	11/29/18 18:43	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 06:41	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:41	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 06:41	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 06:41	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B87-6 **Lab ID: 35431370010** Collected: 11/15/18 14:50 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 06:41	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:41	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:41	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 06:41	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 06:41	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 06:41	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 06:41	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 06:41	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:41	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 06:41	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 06:41	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:41	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 06:41	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 06:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 06:41	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 06:41	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 06:41	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 06:41	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 06:41	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 06:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/28/18 06:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/28/18 06:41	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/28/18 06:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: B87-6 **Lab ID: 35431370010** Collected: 11/15/18 14:50 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**431**	mg/L	5.0	5.0	1		11/21/18 15:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**28.2**	mg/L	5.0	2.5	1		11/26/18 19:05	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.13**	mg/L	0.050	0.035	1		11/16/18 10:46	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.032 I**	mg/L	0.050	0.025	1		11/16/18 09:10	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: Trip Blank 11/15/18 **Lab ID: 35431370011** Collected: 11/15/18 00:01 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 00:44	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 00:44	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 00:44	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 00:44	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 00:44	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 00:44	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 00:44	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 00:44	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 00:44	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 00:44	74-87-3	
1,2-Dibromo-3-chloropropane	**1.0 U**	ug/L	5.0	1.0	1		11/28/18 00:44	96-12-8	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 00:44	124-48-1	
1,2-Dibromoethane (EDB)	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	106-93-4	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 00:44	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 00:44	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 00:44	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 00:44	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 00:44	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 00:44	74-88-4	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 00:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 00:44	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 00:44	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 00:44	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 00:44	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 00:44	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Sample: Trip Blank 11/15/18 **Lab ID: 35431370011** Collected: 11/15/18 00:01 Received: 11/15/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		11/28/18 00:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/28/18 00:44	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		11/28/18 00:44	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/28/18 00:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 497218 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

METHOD BLANK: 2688497 Matrix: Water
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/29/18 18:09	

LABORATORY CONTROL SAMPLE: 2688498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.3	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2688499 2688500

Parameter	Units	35431370001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.2	2.2	109	112	75-125	3	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 497344 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

METHOD BLANK: 2689142 Matrix: Water
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	12/01/18 21:13	
Beryllium	ug/L	1.6 U	4.0	1.6	12/01/18 21:13	
Cadmium	ug/L	0.33 U	1.0	0.33	12/01/18 21:13	
Chromium	ug/L	1.7 U	5.0	1.7	12/01/18 21:13	
Cobalt	ug/L	0.96 U	10.0	0.96	12/01/18 21:13	
Copper	ug/L	2.6 U	5.0	2.6	12/01/18 21:13	
Iron	ug/L	9.2 U	40.0	9.2	12/01/18 21:13	
Lead	ug/L	4.6 U	10.0	4.6	12/01/18 21:13	
Nickel	ug/L	2.1 U	5.0	2.1	12/01/18 21:13	
Selenium	ug/L	8.5 U	15.0	8.5	12/01/18 21:13	
Silver	ug/L	1.0 U	5.0	1.0	12/01/18 21:13	
Sodium	mg/L	0.27 U	2.0	0.27	12/01/18 21:13	
Vanadium	ug/L	1.0 U	10.0	1.0	12/01/18 21:13	
Zinc	ug/L	11.0 U	20.0	11.0	12/01/18 21:13	

LABORATORY CONTROL SAMPLE: 2689143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	247	99	80-120	
Beryllium	ug/L	25	24.4	98	80-120	
Cadmium	ug/L	25	25.2	101	80-120	
Chromium	ug/L	250	250	100	80-120	
Cobalt	ug/L	250	252	101	80-120	
Copper	ug/L	250	240	96	80-120	
Iron	ug/L	2500	2460	99	80-120	
Lead	ug/L	250	254	102	80-120	
Nickel	ug/L	250	255	102	80-120	
Selenium	ug/L	250	248	99	80-120	
Silver	ug/L	25	24.7	99	80-120	
Sodium	mg/L	12.5	12.5	100	80-120	
Vanadium	ug/L	250	246	98	80-120	
Zinc	ug/L	1250	1260	101	80-120	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2689522 2689523

Parameter	Units	35431370003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	36.6	250	250	284	283	99	99	75-125	0	20	
Beryllium	ug/L	1.6 U	25	25	23.6	23.4	94	93	75-125	1	20	
Cadmium	ug/L	0.33 U	25	25	25.2	25.1	100	100	75-125	1	20	
Chromium	ug/L	1.7 U	250	250	254	251	101	100	75-125	1	20	
Cobalt	ug/L	1.2 I	250	250	258	254	103	101	75-125	1	20	
Copper	ug/L	2.6 U	250	250	248	245	99	98	75-125	1	20	
Iron	ug/L	13500	2500	2500	16200	16100	105	101	75-125	1	20	
Lead	ug/L	4.6 U	250	250	254	250	100	99	75-125	1	20	
Nickel	ug/L	2.3 I	250	250	258	256	102	102	75-125	1	20	
Selenium	ug/L	8.5 U	250	250	248	247	99	99	75-125	0	20	
Silver	ug/L	1.0 U	25	25	24.9	24.5	99	98	75-125	2	20	
Sodium	mg/L	28.2	12.5	12.5	41.7	41.5	108	106	75-125	0	20	
Vanadium	ug/L	2.4 I	250	250	254	251	101	99	75-125	1	20	
Zinc	ug/L	11.0 U	1250	1250	1260	1230	100	98	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 497345 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

METHOD BLANK: 2689155 Matrix: Water
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	12/03/18 16:05	
Arsenic	ug/L	0.50 U	1.0	0.50	12/03/18 16:05	
Thallium	ug/L	0.50 U	1.0	0.50	12/03/18 16:05	

LABORATORY CONTROL SAMPLE: 2689156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.5	97	80-120	
Arsenic	ug/L	50	47.8	96	80-120	
Thallium	ug/L	50	49.2	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2689157 2689158

Parameter	Units	35431370002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	47.7	48.4	95	97	75-125	2	20	
Arsenic	ug/L	0.50 U	50	50	48.0	48.2	95	96	75-125	0	20	
Thallium	ug/L	0.50 U	50	50	48.9	49.2	98	98	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 496701 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010, 35431370011

METHOD BLANK: 2686026 Matrix: Water
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010, 35431370011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/28/18 00:20	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/28/18 00:20	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	5.0	1.0	11/28/18 00:20	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/28/18 00:20	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/28/18 00:20	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/28/18 00:20	
Acetone	ug/L	10.0 U	20.0	10.0	11/28/18 00:20	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/28/18 00:20	
Benzene	ug/L	0.10 U	1.0	0.10	11/28/18 00:20	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/28/18 00:20	
Bromoform	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/28/18 00:20	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/28/18 00:20	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/28/18 00:20	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/28/18 00:20	
Chloroform	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/28/18 00:20	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/28/18 00:20	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/28/18 00:20	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/28/18 00:20	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/28/18 00:20	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/28/18 00:20	
Styrene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
Toluene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

METHOD BLANK: 2686026 Matrix: Water

Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010, 35431370011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/28/18 00:20	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/28/18 00:20	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/28/18 00:20	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/28/18 00:20	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/28/18 00:20	
1,2-Dichloroethane-d4 (S)	%	96	70-130		11/28/18 00:20	
4-Bromofluorobenzene (S)	%	104	70-130		11/28/18 00:20	
Toluene-d8 (S)	%	101	70-130		11/28/18 00:20	

LABORATORY CONTROL SAMPLE: 2686027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.9	114	70-130	
1,1,1-Trichloroethane	ug/L	20	19.9	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	96	68-125	
1,1,2-Trichloroethane	ug/L	20	21.5	108	70-130	
1,1-Dichloroethane	ug/L	20	17.9	89	70-130	
1,1-Dichloroethene	ug/L	20	16.2	81	66-133	
1,2,3-Trichloropropane	ug/L	20	18.5	93	62-127	
1,2-Dibromo-3-chloropropane	ug/L	20	15.3	77	45-137	
1,2-Dibromoethane (EDB)	ug/L	20	21.9	109	70-130	
1,2-Dichlorobenzene	ug/L	20	20.2	101	70-130	
1,2-Dichloroethane	ug/L	20	17.8	89	70-130	
1,2-Dichloropropane	ug/L	20	18.4	92	70-130	
1,4-Dichlorobenzene	ug/L	20	19.3	96	70-130	
2-Butanone (MEK)	ug/L	40	37.3	93	47-143	
2-Hexanone	ug/L	40	33.5	84	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	35.8	90	57-132	
Acetone	ug/L	40	45.1	113	46-148	
Acrylonitrile	ug/L	200	198	99	60-143	
Benzene	ug/L	20	18.9	94	70-130	
Bromochloromethane	ug/L	20	21.0	105	70-130	
Bromodichloromethane	ug/L	20	18.5	92	70-130	
Bromoform	ug/L	20	18.4	92	49-126	
Bromomethane	ug/L	20	31.7	159	10-165	
Carbon disulfide	ug/L	20	12.3	62	60-141	
Carbon tetrachloride	ug/L	20	19.3	97	63-126	
Chlorobenzene	ug/L	20	19.7	98	70-130	
Chloroethane	ug/L	20	20.1	100	71-142	
Chloroform	ug/L	20	18.4	92	70-130	
Chloromethane	ug/L	20	16.0	80	40-140	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

LABORATORY CONTROL SAMPLE: 2686027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	17.8	89	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.3	86	70-130	
Dibromochloromethane	ug/L	20	17.9	89	62-118	
Dibromomethane	ug/L	20	22.8	114	70-130	
Ethylbenzene	ug/L	20	19.3	97	70-130	
Iodomethane	ug/L	40	38.9	97	10-164	
Methylene Chloride	ug/L	20	18.3	92	65-136	
Styrene	ug/L	20	19.1	96	70-130	
Tetrachloroethene	ug/L	20	22.7	114	64-134	
Toluene	ug/L	20	19.5	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.8	89	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	15.6	78	42-129	
Trichloroethene	ug/L	20	19.9	99	70-130	
Trichlorofluoromethane	ug/L	20	17.4	87	65-135	
Vinyl acetate	ug/L	20	18.2	91	60-144	
Vinyl chloride	ug/L	20	18.6	93	68-131	
Xylene (Total)	ug/L	60	61.5	103	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			116	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2686222

Parameter	Units	35431370003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	20.6	103	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	19.7	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.0	90	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	19.9	99	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.5	88	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	16.9	84	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	17.7	88	62-127	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	20	12.6	63	45-137	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	20	19.1	96	70-130	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.3	91	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.9	85	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.7	84	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	18.3	91	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	33.1	83	47-143	
2-Hexanone	ug/L	5.0 U	40	30.9	77	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	30.1	75	57-132	
Acetone	ug/L	10.0 U	40	30.1	75	46-148	
Acrylonitrile	ug/L	5.0 U	200	173	86	60-143	
Benzene	ug/L	0.10 U	20	18.2	91	70-130	
Bromochloromethane	ug/L	0.50 U	20	20.6	103	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

MATRIX SPIKE SAMPLE: 2686222

Parameter	Units	35431370003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	0.27 U	20	18.2	91	70-130	
Bromoform	ug/L	0.50 U	20	16.7	84	49-126	
Bromomethane	ug/L	0.50 U	20	16.5	83	10-165	
Carbon disulfide	ug/L	5.0 U	20	13.0	65	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	19.0	95	63-126	
Chlorobenzene	ug/L	0.50 U	20	18.2	91	70-130	
Chloroethane	ug/L	0.50 U	20	20.2	101	71-142	
Chloroform	ug/L	0.50 U	20	17.8	89	70-130	
Chloromethane	ug/L	0.62 U	20	15.1	76	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	16.2	81	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	14.1	70	70-130	
Dibromochloromethane	ug/L	0.26 U	20	16.6	83	62-118	
Dibromomethane	ug/L	0.50 U	20	20.3	102	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.5	92	70-130	
Iodomethane	ug/L	0.50 U	40	22.8	57	10-164	
Methylene Chloride	ug/L	2.5 U	20	17.6	88	65-136	
Styrene	ug/L	0.50 U	20	17.0	85	70-130	
Tetrachloroethene	ug/L	0.50 U	20	20.2	101	64-134	
Toluene	ug/L	0.50 U	20	18.7	94	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	16.6	83	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	15.7	78	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	12.5	62	42-129	
Trichloroethene	ug/L	0.50 U	20	19.5	98	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	17.6	88	65-135	
Vinyl acetate	ug/L	1.0 U	20	15.1	75	60-144	
Vinyl chloride	ug/L	0.50 U	20	17.9	90	68-131	
Xylene (Total)	ug/L	1.5 U	60	57.0	95	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2686221

Parameter	Units	35431370002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	1.0 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

SAMPLE DUPLICATE: 2686221

Parameter	Units	35431370002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	98	98	0	40	
4-Bromofluorobenzene (S)	%	100	102	2	40	
Toluene-d8 (S)	%	103	102	1	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 495796
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35431370001

METHOD BLANK: 2682116 Matrix: Water
Associated Lab Samples: 35431370001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/25/18 13:53	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/25/18 13:53	

LABORATORY CONTROL SAMPLE: 2682117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.23	92	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.24	95	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682118 2682119

Parameter	Units	35430679001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.46	0.47	105	108	60-140	3	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.46	0.49	105	112	60-140	6	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 495797 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

METHOD BLANK: 2682120 Matrix: Water
Associated Lab Samples: 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/25/18 20:58	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/25/18 20:58	

LABORATORY CONTROL SAMPLE: 2682121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.26	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.26	103	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682122 2682123

Parameter	Units	35431370002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.48	0.48	109	110	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	.44	.44	0.47	0.47	109	108	60-140	0	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 495463 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

METHOD BLANK: 2680226 Matrix: Water
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/21/18 15:37	

LABORATORY CONTROL SAMPLE: 2680227

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	90-110	

SAMPLE DUPLICATE: 2680228

Parameter	Units	35431421001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	148	149	1	5	

SAMPLE DUPLICATE: 2680229

Parameter	Units	35431370003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	363	376	4	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 496242 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

METHOD BLANK: 2683652 Matrix: Water
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/26/18 10:51	

LABORATORY CONTROL SAMPLE: 2683653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683654 2683655

Parameter	Units	35431373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.0	50	50	57.2	57.6	96	97	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683656 2683657

Parameter	Units	35432024011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	383	250	250	643	644	104	104	90-110	0	20	L

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 494284 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

METHOD BLANK: 2673887 Matrix: Water
Associated Lab Samples: 35431370001, 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/16/18 09:47	

LABORATORY CONTROL SAMPLE: 2673888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE: 2673890

Parameter	Units	35431366004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	1	1.0	100	90-110	

SAMPLE DUPLICATE: 2673889

Parameter	Units	35431366004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.035 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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 494292
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35431370001

METHOD BLANK: 2673927 Matrix: Water
Associated Lab Samples: 35431370001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/16/18 07:49	

SAMPLE DUPLICATE: 2673929

Parameter	Units	35431270001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	6.8	6.8	0	20	

SAMPLE DUPLICATE: 2673931

Parameter	Units	35431318001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.64	0.64	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

QC Batch: 494294 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

METHOD BLANK: 2673935 Matrix: Water
Associated Lab Samples: 35431370002, 35431370003, 35431370004, 35431370005, 35431370006, 35431370007, 35431370008, 35431370009, 35431370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/16/18 08:38	

SAMPLE DUPLICATE: 2673937

Parameter	Units	35431370002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.18	0.18	0	20	

SAMPLE DUPLICATE: 2673939

Parameter	Units	35431371002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	2.3	2.3	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

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.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

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.
L	Off-scale high. Actual value is known to be greater than value given.

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35431370002	**B38-1**				
35431370003	**B38-2**				
35431370004	**B63-1**				
35431370005	**B63-2**				
35431370006	**B85**				
35431370007	**B85 Dup**				
35431370008	**B85-6**				
35431370009	**B82-1**				
35431370010	**B87-6**				
35431370001	**EQ Blank 11/15/18**	EPA 8011	495796	EPA 8011	495963
35431370002	**B38-1**	EPA 8011	495797	EPA 8011	495964
35431370003	**B38-2**	EPA 8011	495797	EPA 8011	495964
35431370004	**B63-1**	EPA 8011	495797	EPA 8011	495964
35431370005	**B63-2**	EPA 8011	495797	EPA 8011	495964
35431370006	**B85**	EPA 8011	495797	EPA 8011	495964
35431370007	**B85 Dup**	EPA 8011	495797	EPA 8011	495964
35431370008	**B85-6**	EPA 8011	495797	EPA 8011	495964
35431370009	**B82-1**	EPA 8011	495797	EPA 8011	495964
35431370010	**B87-6**	EPA 8011	495797	EPA 8011	495964
35431370001	**EQ Blank 11/15/18**	EPA 3010	497344	EPA 6010	497440
35431370002	**B38-1**	EPA 3010	497344	EPA 6010	497440
35431370003	**B38-2**	EPA 3010	497344	EPA 6010	497440
35431370004	**B63-1**	EPA 3010	497344	EPA 6010	497440
35431370005	**B63-2**	EPA 3010	497344	EPA 6010	497440
35431370006	**B85**	EPA 3010	497344	EPA 6010	497440
35431370007	**B85 Dup**	EPA 3010	497344	EPA 6010	497440
35431370008	**B85-6**	EPA 3010	497344	EPA 6010	497440
35431370009	**B82-1**	EPA 3010	497344	EPA 6010	497440
35431370010	**B87-6**	EPA 3010	497344	EPA 6010	497440
35431370001	**EQ Blank 11/15/18**	EPA 3010	497345	EPA 6020	498063
35431370002	**B38-1**	EPA 3010	497345	EPA 6020	498063
35431370003	**B38-2**	EPA 3010	497345	EPA 6020	498063
35431370004	**B63-1**	EPA 3010	497345	EPA 6020	498063
35431370005	**B63-2**	EPA 3010	497345	EPA 6020	498063
35431370006	**B85**	EPA 3010	497345	EPA 6020	498063
35431370007	**B85 Dup**	EPA 3010	497345	EPA 6020	498063
35431370008	**B85-6**	EPA 3010	497345	EPA 6020	498063
35431370009	**B82-1**	EPA 3010	497345	EPA 6020	498063
35431370010	**B87-6**	EPA 3010	497345	EPA 6020	498063
35431370001	**EQ Blank 11/15/18**	EPA 7470	497218	EPA 7470	497301
35431370002	**B38-1**	EPA 7470	497218	EPA 7470	497301
35431370003	**B38-2**	EPA 7470	497218	EPA 7470	497301
35431370004	**B63-1**	EPA 7470	497218	EPA 7470	497301
35431370005	**B63-2**	EPA 7470	497218	EPA 7470	497301
35431370006	**B85**	EPA 7470	497218	EPA 7470	497301
35431370007	**B85 Dup**	EPA 7470	497218	EPA 7470	497301

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35431370008	**B85-6**	EPA 7470	497218	EPA 7470	497301
35431370009	**B82-1**	EPA 7470	497218	EPA 7470	497301
35431370010	**B87-6**	EPA 7470	497218	EPA 7470	497301
35431370001	**EQ Blank 11/15/18**	EPA 8260	496701		
35431370002	**B38-1**	EPA 8260	496701		
35431370003	**B38-2**	EPA 8260	496701		
35431370004	**B63-1**	EPA 8260	496701		
35431370005	**B63-2**	EPA 8260	496701		
35431370006	**B85**	EPA 8260	496701		
35431370007	**B85 Dup**	EPA 8260	496701		
35431370008	**B85-6**	EPA 8260	496701		
35431370009	**B82-1**	EPA 8260	496701		
35431370010	**B87-6**	EPA 8260	496701		
35431370011	**Trip Blank 11/15/18**	EPA 8260	496701		
35431370001	**EQ Blank 11/15/18**	SM 2540C	495463		
35431370002	**B38-1**	SM 2540C	495463		
35431370003	**B38-2**	SM 2540C	495463		
35431370004	**B63-1**	SM 2540C	495463		
35431370005	**B63-2**	SM 2540C	495463		
35431370006	**B85**	SM 2540C	495463		
35431370007	**B85 Dup**	SM 2540C	495463		
35431370008	**B85-6**	SM 2540C	495463		
35431370009	**B82-1**	SM 2540C	495463		
35431370010	**B87-6**	SM 2540C	495463		
35431370001	**EQ Blank 11/15/18**	EPA 300.0	496242		
35431370002	**B38-1**	EPA 300.0	496242		
35431370003	**B38-2**	EPA 300.0	496242		
35431370004	**B63-1**	EPA 300.0	496242		
35431370005	**B63-2**	EPA 300.0	496242		
35431370006	**B85**	EPA 300.0	496242		
35431370007	**B85 Dup**	EPA 300.0	496242		
35431370008	**B85-6**	EPA 300.0	496242		
35431370009	**B82-1**	EPA 300.0	496242		
35431370010	**B87-6**	EPA 300.0	496242		
35431370001	**EQ Blank 11/15/18**	EPA 350.1	494284		
35431370002	**B38-1**	EPA 350.1	494284		
35431370003	**B38-2**	EPA 350.1	494284		
35431370004	**B63-1**	EPA 350.1	494284		
35431370005	**B63-2**	EPA 350.1	494284		
35431370006	**B85**	EPA 350.1	494284		
35431370007	**B85 Dup**	EPA 350.1	494284		
35431370008	**B85-6**	EPA 350.1	494284		
35431370009	**B82-1**	EPA 350.1	494284		
35431370010	**B87-6**	EPA 350.1	494284		
35431370001	**EQ Blank 11/15/18**	EPA 353.2	494292		
35431370002	**B38-1**	EPA 353.2	494294		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431370

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35431370003	**B38-2**	EPA 353.2	494294		
35431370004	**B63-1**	EPA 353.2	494294		
35431370005	**B63-2**	EPA 353.2	494294		
35431370006	**B85**	EPA 353.2	494294		
35431370007	**B85 Dup**	EPA 353.2	494294		
35431370008	**B85-6**	EPA 353.2	494294		
35431370009	**B82-1**	EPA 353.2	494294		
35431370010	**B87-6**	EPA 353.2	494294		

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

WO# : 35431370

35431370

Pace Analytical

cal Request Document

All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company:	Volusia County Solid Waste Management
Address:	1990 Tomoka Farms Road
	Port Orange, FL 32128
Email:	jstirk@volusia.org
Phone: (386)947-2952	Fax:
Requested Due Date:	

Section B
Required Project Infor.

Report To:	Jennifer Stirk
Copy To:	
Purchase Order #:	
Project Name:	Tomoka LF Semi-annual MWs
Project #:	

Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	jeff.baylor@pacelabs.com,
Pace Profile #:	1590, Line 1

Regulatory Agency

State / Location

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS, NO3, CL	ammonia	Metals by 6010/6020/Hg	EDB 8011	8260 VOCs Full List	Trip Blank DO NOT OPEN -	Residual Chlorine (Y/N)
1	EQ					11-15-18	10:00												X	X	X	X	X	X	
2	B-38-1						11:26																		
3	B38-2						11:58																		
4	B63-1						12:37																		
5	B63-2						13:01																		
6	B85						12:07																		
7	DUP						12:07																		
8	85-6						12:45																		
9	B82						1344																		
10	87-6						1450																		
11																									
12																									

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[illegible]	11/4/18	1600				
	[illegible]	11-15-18	16 30	AS/PACE	11/15/18	1630	Y N N
					916		

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

WO# : 35431370

Project # PM: JSB Due Date: 12/03/18

Project Manager: CLIENT: VOLDPW

Client:

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

Thermometer Used: T338 Date: 11/15/18 Time: 1630 Initials: RAL

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

Cooler #1 Temp.°C 9.6	(Visual)	+0	(Correction Factor) 9.6	(Actual) ☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C 7.1	(Visual)	+1	(Correction Factor) 7.1	(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	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☐ No ☑N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☑Yes ☐ No ☐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	☑Yes ☐ No ☐N/A	
Headspace in VOA Vials? (>6mm):	☐Yes ☑ No ☐N/A	
Trip Blank Present:	☑Yes ☐ No ☐N/A	

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

Comments/ Resolution (use back for additional comments):_____

Project Manager Review:_____ Date:_____

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: TOMOKA LF SEMS ANNUAL
WELL NO: EG	SAMPLE ID: EG	DATE: 11-15-18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:00	SAMPLING ENDED AT: 10:07
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE,S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1600	ICE			TDS CL SO4	PP	2400
	1	PE	250	HNO3			6010 6020		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	TCC			8011		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste | SITE LOCATION: Tomoka LF Semi Annual

WELL NO: B38-1 | SAMPLE ID: B38-2 | DATE: 11-15-18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	39 feet to 50 feet	3.18	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
6	6	11:20	11:26	9.00

TIME (24)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:14	6.00	6.00	.25	4.46	4.70	23.1	305	4.91	1.47	Clear	None
11:20	1.50	7.50	.25	4.46	4.70	23.1	307	4.80	1.48	"	"
11:26	1.50	9.00	.25	4.46	4.80	23.0	309	4.78	1.34	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Bruce Foster		11:26	11:33

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
6	HDPE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	Ice		4.80	TDS Cl SO4	APP	<400
	1	PE	250	HNO3			6010 6020		
	1	PE	250	H2SO4			Ammonia		
	3	VG	40	HCl			8260		
	2	VG	40	Ice			SVOC		

REMARKS:
ORP 110.4 121.3 115.9

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Florida Laboratory	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B38-2	SAMPLE ID: B38-2	DATE: 11-15-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 17 feet to 35 feet	STATIC DEPTH TO WATER (feet): 2.36	PURGE PUMP TYPE OR BAILER: P

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (17.35 feet – 2.36 feet) X 0.16 gallons/foot = 2.3984 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 11:37	PURGING ENDED AT: 11:53	TOTAL VOLUME PURGED (gallons): 4.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:47	2.50	2.50	.25	3.72	5.86	23.3	586	3.04	4.77	Yellow	Sulfur
11:50	0.75	3.25	.25	3.72	5.88	23.3	586	2.96	15.37	"	"
11:53	0.75	4.00	.25	3.72	5.90	23.3	587	2.87	9.84	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:56	SAMPLING ENDED AT: 12:00
PUMP OR TUBING DEPTH IN WELL (feet): 5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		5.90	TDS & Cl 50's	A/N	< 400
	1	PE	250	H2SO4			COD 6020	|	|
	1	PE	250	H2SO4			AMMONIA	|	|
	3	CG	40	HCL			8260	|	|
	2	CG	40	ICE			SVOC	|	|

REMARKS:
ORP -46.0 -53.9 -62.1

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid Waste	SITE LOCATION:	TOMOKA LF SEMS Area 1
WELL NO:	B63-1	SAMPLE ID:	B63-1
		DATE:	11-15-18

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	30 feet to 43 feet	STATIC DEPTH TO WATER (feet):	1.77	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (30.43 feet – 1.77 feet) X 0.16 gallons/foot = 4,5856 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	3	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	3	PURGING INITIATED AT:	12:03	PURGING ENDED AT:	12:37	TOTAL VOLUME PURGED (gallons):	~~7.25~~ 4.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) (mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:27	4.75	4.75	.25	2.27	6.83	24.0	499	0.78	10.81	yellow	None
12:32	1.25	6.00	.25	2.27	6.83	24.0	498	0.62	5.66		
12:37	1.25	7.25	.25	2.27	6.83	24.0	498	0.59	5.81		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Bruce Foster	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	12:37	SAMPLING ENDED AT:	12:43
PUMP OR TUBING DEPTH IN WELL (feet):	3	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	Ice		6.83	TDS Cl SO4	APP	400
	1	PE	250	HNO3			6010 6020		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	Ice			8011		

REMARKS:
ORP -39.1 -42.4 -43.1

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200.2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical® Florida Laboratory	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: TOMOKA LF	
WELL NO: B63-2	SAMPLE ID: B63-2	DATE: 11-15-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 14 feet to 40 feet	STATIC DEPTH TO WATER (feet): 2.02	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (14.40 feet – 2.02 feet) X 0.16 gallons/foot = 1.9808 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12:45	PURGING ENDED AT: ~~12:57~~ 13:01	TOTAL VOLUME PURGED (gallons): 4.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:53	2.00	2.00	.25	2.84	6.74	24.0	685	3.22	29.94	yellow	sulfur
12:55	.50	2.50	.25	2.84	6.74	24.1	699	3.20	25.78		
12:57	.50	3.00	.25	2.84	6.74	24.1	763	3.18	23.39		
12:59	.50	3.50	.25	2.84	6.74	24.1	708	3.05	21.44		
13:01	.50	4.00	.25	2.84	6.74	24.1	713	3.06	17.57		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Bruce Foster	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: ~~13:07~~ 13:01	SAMPLING ENDED AT: 13:08
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.74	TDS & SO4	APP	4400
	1	PE	250	HNO3			6010 6020		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCl			8260		
	2	CG	40	ICE			8011		

REMARKS:
ORP -90.7 -94.2 -95.4 -99.6 -102.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid Waste	SITE LOCATION:	Tomoka 2 Sem Ave, Ormond B
WELL NO:	B-85	SAMPLE ID:	B-85 / Duplicate	DATE:	11-15-18

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.39	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (4.32 feet – 6.39 feet) X 0.16 gallons/foot = 5.9098 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	7	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	7	PURGING INITIATED AT: 1151	PURGING ENDED AT: 1207	TOTAL VOLUME PURGED (gallons): 10.08

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1201	6.3	6.3	0.63	6.53	6.51	22.4	1784	0.47	9.02	Yellow	SULFUR
1204	1.89	8.19	0.63	6.53	6.~~395~~	22.4	1782	0.33	6.39	1	1
1207	1.89	10.08	0.63	6.53	6.51	22.4	1785	0.31	4.16		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DAVID ICE / PACE	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 1207	SAMPLING ENDED AT: 1212
PUMP OR TUBING DEPTH IN WELL (feet):	7	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION:	PUMP (Y) N	TUBING Y (N) (replaced)		DUPLICATE: (Y) ~~N~~	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PL	1000	ICE		6.51	TDS, NO3, Cl	ESP	<400
	2	1	250	HNO3		<2	6010 6020		
	2		1	H2SO4		<2	Ammonia		
	4	CG	40	ICE		6.51	RAB 8011		
	6	1	.	HCl		<2	8260 VOC		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	DS B Volusia County Solid Waste	SITE LOCATION:	Tomoka LF Semi Annual
WELL NO:	85-6	SAMPLE ID:	85-6
DATE:	11-15-18		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	3/8		6.45	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (54.51 feet – 6.45 feet) X 0.16 gallons/foot = 7.6896 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
8	8	1236	1245	17.15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1237	8.05	8.05	1.15	6.80	6.44	22.5	2236	0.16	159.	Cloudy	SULFUR
1239	2.3	10.35	1.15	6.80	6.44	22.6	2230	0.15	127.		
1241	2.3	12.55	1.15	6.80	6.44	22.5	2228	0.14	125.		
1243	2.3	14.85	1.15	6.80	6.44	22.7	2244	0.14	97.4		
1245	2.3	17.15	1.15	6.80	6.44	22.6	2245	0.14	90.3		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
DAVID ICE / PACE		1245	1243

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
8	HDPE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.44	TDS, NO3, Cl	ESP	<400
	1	1	250	HNO3		<2	6010 6020	1	1
	1	1	1	H2SO4		<2	Ammonia	1	1
	2	CG	40	ICE		6.44	EDB 8011	1	1
	3	1	1	HCl		<2	8260 VOC's	1	1

REMARKS: ORP -48.2 ORP -47.5 ORP -47.2 ORP -46.8

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Florida Laboratory	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid Waste	SITE LOCATION:	Tomoka LF Semi Annual
WELL NO:	B82	SAMPLE ID:	B82
		DATE:	11-15-18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	3/8		7.38	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (38.05 feet – 7.38 feet) X 0.16 gallons/foot = 5.0032 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 65 gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
15	15	13.21	1344	9.825

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1332	5.225	5.225	.475	12.93	6.28	25.1	454.8	0.48	41.7	CLEAR	NONE
1335	1.425	5.650	.475	12.93	6.28	25.0	458.0	0.20	30.0	"	"
1338	1.425	7.075	.475	12.93	6.27	25.2	453.2	0.15	25.7	"	"
1341	1.425	8.500	.475	12.93	6.28	25.0	460.0	0.13	21.8	"	"
1344	1.425	9.925	.475	12.93	6.28	25.1	460.3	0.12	15.8	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
DAVID ICE / PACE		1344	1348

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm
15	HDPE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.28	TDS, NO3, Cl	ESP	400
	1	"	250	HNO_3		<2	6010 6020	"	"
	1	"	1	H_2SO_4		<2	Ammonia	"	"
	2	CG	40	ICE		6.28	EPA 8011	"	"
	3	"	1	HCl		<2	8260 VOCs	"	"

REMARKS: ORP -23.8 ORP -25.7 ORP -26.0 ORP -28.2 ORP -29.1

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: 87-6	SAMPLE ID: 87-6	DATE: 11-15-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.27	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (53.09 feet – 9.27 feet) X 0.16 gallons/foot = 7.0112 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11	PURGING INITIATED AT: 1414	PURGING ENDED AT: 1450	TOTAL VOLUME PURGED (gallons): 13.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1422	8.00	8.00	1.00	10.05	6.82	23.1	675	0.13	151.	CLEAR	SULFUR
1429	~~2.00~~	~~10.00~~	~~1.25~~ .25	9.55	6.84	23.1	685	0.11	34.2	"	"
1436	1.75	9.75	.25	9.55	6.85	23.1	688	0.11	23.1	"	"
1443	1.75	11.50	.25	9.55	6.85	23.1	688	0.11	17.3	"	"
1450	1.75	13.25	.25	9.55	6.86	23.1	685	0.11	11.8	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAVID ICE / PACE	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1450	SAMPLING ENDED AT: 1454
PUMP OR TUBING DEPTH IN WELL (feet): 11	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		6.86	TDS, NO3, Cl	ESP	400
	1	1	250	HNO_3		<2	6010 6020	"	"
	1	1	250	H_2SO_4		<2	Ammonia	"	"
	2	CG	40	ICE		6.86	EPA 8011	"	"
	3	1	40	HCl		<2	8260 VOCs		

REMARKS: ORP -69.0 ORP -71.5 ORP -72.8 ORP -72.1 Pumping to Fast for Turb Turn down immediately

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify) T

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

December 04, 2018

Ms. Jennifer Stirk
Volusia County Solid Waste Management
1990 Tomoka Farms Road
Port Orange, FL 32128

RE: Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Dear Ms. Stirk:
Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: John Catches, HDR Engineering, Inc.
Handi Wang, Volusia County Solid Waste Man

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35431620001	**EQ Blank 11/15/18**	Water	11/16/18 10:30	11/16/18 16:30
35431620002	**B35-1**	Water	11/16/18 11:28	11/16/18 16:30
35431620003	**B35-2**	Water	11/16/18 11:52	11/16/18 16:30
35431620004	**B36**	Water	11/16/18 12:57	11/16/18 16:30
35431620005	**FA-2C**	Water	11/16/18 11:40	11/16/18 16:30
35431620006	**FA-2C Dup**	Water	11/16/18 11:40	11/16/18 16:30
35431620007	**FA-1B**	Water	11/16/18 13:18	11/16/18 16:30
35431620008	**F-MB**	Water	11/16/18 14:20	11/16/18 16:30
35431620009	**B-39**	Water	11/16/18 14:58	11/16/18 16:30
35431620010	**TRIP BLANK 11/15/18**	Water	11/16/18 00:00	11/16/18 16:30

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35431620001	**EQ Blank 11/15/18**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35431620002	**B35-1**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	JDM	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35431620003	**B35-2**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	JDM	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35431620004	**B36**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	JDM	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35431620005	**FA-2C**	EPA 8011	SMH	2	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	JDM	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35431620006	**FA-2C Dup**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	JDM	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35431620007	**FA-1B**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	JDM	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35431620008	**F-MB**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	JDM	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35431620009	**B-39**	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	14	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	CRT	3	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	KLT	1	PASI-O
		EPA 300.0	JDM	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35431620010	**TRIP BLANK 11/15/18**	EPA 8260	BTN	50	PASI-O

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35431620001	**EQ Blank 11/15/18**					
EPA 6010	Barium	2.1 I	ug/L	10.0	12/03/18 21:05	
EPA 8260	Iodomethane	1.9 I	ug/L	10.0	11/28/18 11:48	V
35431620002	**B35-1**					
	Field pH	5.20	Std. Units		11/16/18 11:28	
	Field Temperature	22.1	deg C		11/16/18 11:28	
	Appearance	Color: yellow, Sheen: none			11/16/18 11:28	
	Field Specific Conductance	296	umhos/cm		11/16/18 11:28	
	Oxygen, Dissolved	1.44	mg/L		11/16/18 11:28	
	Turbidity	10.98	NTU		11/16/18 11:28	
	Water Level(NGVD)	28.46	feet		11/16/18 11:28	
EPA 6010	Barium	79.0	ug/L	10.0	12/03/18 21:08	
EPA 6010	Cobalt	1.1 I	ug/L	10.0	12/03/18 21:08	
EPA 6010	Iron	8980	ug/L	40.0	12/03/18 21:08	
EPA 6010	Sodium	26.9	mg/L	2.0	12/03/18 21:08	
EPA 6010	Vanadium	1.8 I	ug/L	10.0	12/03/18 21:08	
EPA 6020	Arsenic	0.54 I	ug/L	1.0	12/01/18 20:03	
EPA 8260	Iodomethane	2.0 I	ug/L	10.0	11/28/18 12:12	V
SM 2540C	Total Dissolved Solids	186	mg/L	5.0	11/21/18 17:23	
EPA 300.0	Chloride	46.9	mg/L	5.0	11/28/18 15:55	
EPA 350.1	Nitrogen, Ammonia	0.14	mg/L	0.050	11/21/18 09:49	
35431620003	**B35-2**					
	Field pH	5.07	Std. Units		11/16/18 11:52	
	Field Temperature	23.1	deg C		11/16/18 11:52	
	Appearance	Color: yellow, Sheen: none			11/16/18 11:52	
	Field Specific Conductance	490	umhos/cm		11/16/18 11:52	
	Oxygen, Dissolved	1.82	mg/L		11/16/18 11:52	
	REDOX	-81.6	mV		11/16/18 11:52	
	Turbidity	18.63	NTU		11/16/18 11:52	
	Water Level(NGVD)	28.59	feet		11/16/18 11:52	
EPA 6010	Barium	82.4	ug/L	10.0	12/03/18 21:11	
EPA 6010	Chromium	4.8 I	ug/L	5.0	12/03/18 21:11	
EPA 6010	Iron	12700	ug/L	40.0	12/03/18 21:11	
EPA 6010	Sodium	64.5	mg/L	2.0	12/03/18 21:11	
EPA 6010	Vanadium	8.9 I	ug/L	10.0	12/03/18 21:11	
EPA 6020	Arsenic	0.76 I	ug/L	1.0	12/01/18 20:04	
EPA 8260	Iodomethane	1.3 I	ug/L	10.0	11/28/18 12:37	V
SM 2540C	Total Dissolved Solids	261	mg/L	5.0	11/21/18 17:23	
EPA 300.0	Chloride	111	mg/L	10.0	11/29/18 06:10	
EPA 350.1	Nitrogen, Ammonia	0.86	mg/L	0.050	11/21/18 09:51	
EPA 353.2	Nitrogen, Nitrate	0.026 I	mg/L	0.050	11/17/18 08:16	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35431620004	**B36**					
	Field pH	6.18	Std. Units		11/16/18 12:57	
	Field Temperature	22.6	deg C		11/16/18 12:57	
	Appearance	Color: yellow, Sheen: none			11/16/18 12:57	
	Field Specific Conductance	1960	umhos/cm		11/16/18 12:57	
	Oxygen, Dissolved	1.80	mg/L		11/16/18 12:57	
	REDOX	-105.4	mV		11/16/18 12:57	
	Turbidity	4.46	NTU		11/16/18 12:57	
	Water Level(NGVD)	28.13	feet		11/16/18 12:57	
EPA 6010	Barium	151	ug/L	10.0	12/03/18 21:20	
EPA 6010	Cobalt	3.2 I	ug/L	10.0	12/03/18 21:20	
EPA 6010	Iron	6410	ug/L	40.0	12/03/18 21:20	
EPA 6010	Nickel	2.2 I	ug/L	5.0	12/03/18 21:20	
EPA 6010	Sodium	133	mg/L	2.0	12/03/18 21:20	
EPA 6010	Vanadium	1.8 I	ug/L	10.0	12/03/18 21:20	
EPA 8260	Benzene	1.8	ug/L	1.0	11/28/18 13:01	
EPA 8260	Chlorobenzene	3.5	ug/L	1.0	11/28/18 13:01	
EPA 8260	1,4-Dichlorobenzene	0.53 I	ug/L	1.0	11/28/18 13:01	
EPA 8260	1,1-Dichloroethane	1.0	ug/L	1.0	11/28/18 13:01	
EPA 8260	Iodomethane	2.0 I	ug/L	10.0	11/28/18 13:01	V
SM 2540C	Total Dissolved Solids	1220	mg/L	10.0	11/21/18 17:23	
EPA 300.0	Chloride	254	mg/L	25.0	11/28/18 16:40	
EPA 350.1	Nitrogen, Ammonia	0.34	mg/L	0.050	11/21/18 09:53	
35431620005	**FA-2C**					
	Field pH	7.52	Std. Units		11/16/18 11:40	
	Field Temperature	21.8	deg C		11/16/18 11:40	
	Appearance	Color: Yellow, Sheen: none			11/16/18 11:40	
	Field Specific Conductance	712	umhos/cm		11/16/18 11:40	
	Oxygen, Dissolved	0.09	mg/L		11/16/18 11:40	
	REDOX	-107.7	mV		11/16/18 11:40	
	Turbidity	0.21	NTU		11/16/18 11:40	
	Water Level(NGVD)	17.31	feet		11/16/18 11:40	
EPA 6010	Barium	21.3	ug/L	10.0	12/03/18 21:22	
EPA 6010	Iron	719	ug/L	40.0	12/03/18 21:22	
EPA 6010	Sodium	46.0	mg/L	2.0	12/03/18 21:22	
EPA 6010	Vanadium	1.0 I	ug/L	10.0	12/03/18 21:22	
EPA 8260	Iodomethane	1.5 I	ug/L	10.0	11/28/18 13:25	V
SM 2540C	Total Dissolved Solids	403	mg/L	5.0	11/21/18 17:23	
EPA 300.0	Chloride	61.5	mg/L	10.0	11/28/18 17:02	
EPA 350.1	Nitrogen, Ammonia	0.47	mg/L	0.050	11/21/18 09:55	
35431620006	**FA-2C Dup**					
	Field pH	7.52	Std. Units		11/16/18 11:40	

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35431620006	**FA-2C Dup**					
	Field Temperature	21.8	deg C		11/16/18 11:40	
	Appearance	Color: yellow, Sheen: none			11/16/18 11:40	
	Field Specific Conductance	712	umhos/cm		11/16/18 11:40	
	Oxygen, Dissolved	0.09	mg/L		11/16/18 11:40	
	REDOX	-107.7	mV		11/16/18 11:40	
	Turbidity	0.21	NTU		11/16/18 11:40	
	Water Level(NGVD)	17.31	feet		11/16/18 11:40	
EPA 6010	Barium	21.3	ug/L	10.0	12/03/18 21:25	
EPA 6010	Iron	728	ug/L	40.0	12/03/18 21:25	
EPA 6010	Sodium	46.1	mg/L	2.0	12/03/18 21:25	
EPA 6010	Vanadium	1.0 I	ug/L	10.0	12/03/18 21:25	
EPA 8260	Iodomethane	1.8 I	ug/L	10.0	11/28/18 13:50	V
SM 2540C	Total Dissolved Solids	400	mg/L	5.0	11/21/18 17:23	
EPA 300.0	Chloride	64.7	mg/L	5.0	11/28/18 17:25	
EPA 350.1	Nitrogen, Ammonia	0.47	mg/L	0.050	11/21/18 10:00	
35431620007	**FA-1B**					
	Field pH	7.13	Std. Units		11/16/18 13:18	
	Field Temperature	22.2	deg C		11/16/18 13:18	
	Appearance	Color: yellow, Sheen: none			11/16/18 13:18	
	Field Specific Conductance	575	umhos/cm		11/16/18 13:18	
	Oxygen, Dissolved	0.19	mg/L		11/16/18 13:18	
	REDOX	-60.6	mV		11/16/18 13:18	
	Turbidity	0.72	NTU		11/16/18 13:18	
	Water Level(NGVD)	21.11	feet		11/16/18 13:18	
EPA 6010	Barium	21.0	ug/L	10.0	12/03/18 21:28	
EPA 6010	Iron	403	ug/L	40.0	12/03/18 21:28	
EPA 6010	Sodium	10.4	mg/L	2.0	12/03/18 21:28	
EPA 6010	Vanadium	1.1 I	ug/L	10.0	12/03/18 21:28	
EPA 8260	Iodomethane	1.5 I	ug/L	10.0	11/28/18 14:38	V
EPA 8260	Toluene	0.66 I	ug/L	1.0	11/28/18 14:38	
SM 2540C	Total Dissolved Solids	311	mg/L	5.0	11/21/18 17:23	
EPA 300.0	Chloride	13.5	mg/L	5.0	11/28/18 18:32	
EPA 350.1	Nitrogen, Ammonia	0.54	mg/L	0.050	11/21/18 10:02	
35431620008	**F-MB**					
	Field pH	7.11	Std. Units		11/16/18 14:20	
	Field Temperature	23.4	deg C		11/16/18 14:20	
	Appearance	Color: yellow, Sheen: none			11/16/18 14:20	
	Field Specific Conductance	622	umhos/cm		11/16/18 14:20	
	Oxygen, Dissolved	0.09	mg/L		11/16/18 14:20	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35431620008	**F-MB**					
	REDOX	-29.2	mV		11/16/18 14:20	
	Turbidity	8.47	NTU		11/16/18 14:20	
	Water Level(NGVD)	20.38	feet		11/16/18 14:20	
EPA 6010	Barium	18.8	ug/L	10.0	12/03/18 21:31	
EPA 6010	Iron	99.9	ug/L	40.0	12/03/18 21:31	
EPA 6010	Sodium	17.0	mg/L	2.0	12/03/18 21:31	
EPA 8260	Iodomethane	1.3 I	ug/L	10.0	11/28/18 15:03	V
SM 2540C	Total Dissolved Solids	340	mg/L	5.0	11/21/18 17:23	
EPA 300.0	Chloride	21.1	mg/L	5.0	11/28/18 19:39	
EPA 350.1	Nitrogen, Ammonia	0.36	mg/L	0.050	11/21/18 10:04	
35431620009	**B-39**					
	Field pH	5.04	Std. Units		11/16/18 14:58	
	Field Temperature	24.1	deg C		11/16/18 14:58	
	Appearance	Color: yellow, Sheen: none			11/16/18 14:58	
	Field Specific Conductance	173.2	umhos/cm		11/16/18 14:58	
	Oxygen, Dissolved	0.33	mg/L		11/16/18 14:58	
	REDOX	50.1	mV		11/16/18 14:58	
	Turbidity	8.14	NTU		11/16/18 14:58	
	Water Level(NGVD)	24.74	feet		11/16/18 14:58	
EPA 6010	Barium	38.4	ug/L	10.0	12/03/18 21:34	
EPA 6010	Chromium	18.0	ug/L	5.0	12/03/18 21:34	
EPA 6010	Iron	10700	ug/L	40.0	12/03/18 21:34	
EPA 6010	Nickel	6.1	ug/L	5.0	12/03/18 21:34	
EPA 6010	Sodium	13.9	mg/L	2.0	12/03/18 21:34	
EPA 6010	Vanadium	59.4	ug/L	10.0	12/03/18 21:34	
EPA 6020	Arsenic	11.3	ug/L	1.0	12/01/18 20:13	
EPA 8260	Iodomethane	1.2 I	ug/L	10.0	11/28/18 15:27	V
SM 2540C	Total Dissolved Solids	113	mg/L	5.0	11/21/18 17:23	
EPA 300.0	Chloride	18.4	mg/L	5.0	11/28/18 20:02	
EPA 350.1	Nitrogen, Ammonia	1.6	mg/L	0.050	11/21/18 10:06	
EPA 353.2	Nitrogen, Nitrate	0.037 I	mg/L	0.050	11/17/18 08:27	
35431620010	**TRIP BLANK 11/15/18**					
EPA 8260	Iodomethane	1.3 I	ug/L	10.0	11/28/18 15:52	V

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: EQ Blank 11/15/18 **Lab ID: 35431620001** Collected: 11/16/18 10:30 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0061 U**	ug/L	0.019	0.0061	1	11/24/18 09:05	11/26/18 02:36	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0096	0.0072	1	11/24/18 09:05	11/26/18 02:36	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**2.1 I**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:05	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:05	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:05	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:05	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:05	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:05	7440-50-8	
Iron	**9.2 U**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:05	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:05	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:05	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:05	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:05	7440-22-4	
Sodium	**0.27 U**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:05	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:05	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:05	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:01	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:01	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 13:44	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 11:48	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 11:48	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 11:48	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 11:48	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 11:48	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 11:48	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 11:48	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 11:48	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 11:48	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 11:48	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 11:48	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 11:48	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	95-50-1	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: EQ Blank 11/15/18 **Lab ID: 35431620001** Collected: 11/16/18 10:30 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 11:48	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 11:48	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 11:48	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 11:48	591-78-6	
Iodomethane	**1.9 I**	ug/L	10.0	0.50	1		11/28/18 11:48	74-88-4	V
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 11:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 11:48	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 11:48	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 11:48	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 11:48	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 11:48	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/28/18 11:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/28/18 11:48	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		11/28/18 11:48	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/28/18 11:48	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**5.0 U**	mg/L	5.0	5.0	1		11/21/18 17:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5 U**	mg/L	5.0	2.5	1		11/27/18 21:32	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.035 U**	mg/L	0.050	0.035	1		11/21/18 09:47	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/17/18 08:08	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B35-1 **Lab ID: 35431620002** Collected: 11/16/18 11:28 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.20**	Std. Units			1		11/16/18 11:28		
Field Temperature	**22.1**	deg C			1		11/16/18 11:28		
Appearance	**Color: yellow, Sheen: none**				1		11/16/18 11:28		
Field Specific Conductance	**296**	umhos/cm			1		11/16/18 11:28		
Oxygen, Dissolved	**1.44**	mg/L			1		11/16/18 11:28	7782-44-7	
Turbidity	**10.98**	NTU			1		11/16/18 11:28		
Water Level(NGVD)	**28.46**	feet			1		11/16/18 11:28		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/26/18 02:50	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0098	0.0073	1	11/24/18 09:05	11/26/18 02:50	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**79.0**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:08	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:08	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:08	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:08	7440-47-3	
Cobalt	**1.1 I**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:08	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:08	7440-50-8	
Iron	**8980**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:08	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:08	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:08	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:08	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:08	7440-22-4	
Sodium	**26.9**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:08	7440-23-5	
Vanadium	**1.8 I**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:08	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:08	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:03	7440-36-0	
Arsenic	**0.54 I**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:03	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 13:46	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 12:12	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:12	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 12:12	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 12:12	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	75-25-2	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B35-1 **Lab ID: 35431620002** Collected: 11/16/18 11:28 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 12:12	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:12	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:12	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 12:12	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 12:12	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 12:12	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 12:12	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 12:12	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:12	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 12:12	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 12:12	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:12	591-78-6	
Iodomethane	**2.0 I**	ug/L	10.0	0.50	1		11/28/18 12:12	74-88-4	V
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 12:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:12	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 12:12	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 12:12	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 12:12	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:12	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/28/18 12:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/28/18 12:12	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/28/18 12:12	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/28/18 12:12	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**186**	mg/L	5.0	5.0	1		11/21/18 17:23		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B35-1 **Lab ID: 35431620002** Collected: 11/16/18 11:28 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**46.9**	mg/L	5.0	2.5	1		11/28/18 15:55	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.14**	mg/L	0.050	0.035	1		11/21/18 09:49	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/17/18 08:12	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B35-2 **Lab ID: 35431620003** Collected: 11/16/18 11:52 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.07**	Std. Units			1		11/16/18 11:52		
Field Temperature	**23.1**	deg C			1		11/16/18 11:52		
Appearance	**Color: yellow, Sheen: none**				1		11/16/18 11:52		
Field Specific Conductance	**490**	umhos/cm			1		11/16/18 11:52		
Oxygen, Dissolved	**1.82**	mg/L			1		11/16/18 11:52	7782-44-7	
REDOX	**-81.6**	mV			1		11/16/18 11:52		
Turbidity	**18.63**	NTU			1		11/16/18 11:52		
Water Level(NGVD)	**28.59**	feet			1		11/16/18 11:52		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 09:05	11/26/18 03:05	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0098	0.0074	1	11/24/18 09:05	11/26/18 03:05	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**82.4**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:11	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:11	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:11	7440-43-9	
Chromium	**4.8 I**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:11	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:11	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:11	7440-50-8	
Iron	**12700**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:11	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:11	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:11	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:11	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:11	7440-22-4	
Sodium	**64.5**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:11	7440-23-5	
Vanadium	**8.9 I**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:11	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:11	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:04	7440-36-0	
Arsenic	**0.76 I**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:04	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 13:48	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 12:37	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:37	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 12:37	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 12:37	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B35-2 **Lab ID: 35431620003** Collected: 11/16/18 11:52 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 12:37	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:37	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:37	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 12:37	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 12:37	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 12:37	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 12:37	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 12:37	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:37	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 12:37	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 12:37	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:37	591-78-6	
Iodomethane	**1.3 I**	ug/L	10.0	0.50	1		11/28/18 12:37	74-88-4	V
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 12:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 12:37	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 12:37	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 12:37	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 12:37	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 12:37	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/28/18 12:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/28/18 12:37	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/28/18 12:37	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/28/18 12:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B35-2 **Lab ID: 35431620003** Collected: 11/16/18 11:52 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**261**	mg/L	5.0	5.0	1		11/21/18 17:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**111**	mg/L	10.0	5.0	2		11/29/18 06:10	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.86**	mg/L	0.050	0.035	1		11/21/18 09:51	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.026 I**	mg/L	0.050	0.025	1		11/17/18 08:16	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B36 **Lab ID: 35431620004** Collected: 11/16/18 12:57 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**6.18**	Std. Units			1		11/16/18 12:57		
Field Temperature	**22.6**	deg C			1		11/16/18 12:57		
Appearance	**Color: yellow, Sheen: none**				1		11/16/18 12:57		
Field Specific Conductance	**1960**	umhos/cm			1		11/16/18 12:57		
Oxygen, Dissolved	**1.80**	mg/L			1		11/16/18 12:57	7782-44-7	
REDOX	**-105.4**	mV			1		11/16/18 12:57		
Turbidity	**4.46**	NTU			1		11/16/18 12:57		
Water Level(NGVD)	**28.13**	feet			1		11/16/18 12:57		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/24/18 12:22	11/26/18 07:29	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0097	0.0072	1	11/24/18 12:22	11/26/18 07:29	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**151**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:20	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:20	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:20	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:20	7440-47-3	
Cobalt	**3.2 I**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:20	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:20	7440-50-8	
Iron	**6410**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:20	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:20	7439-92-1	
Nickel	**2.2 I**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:20	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:20	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:20	7440-22-4	
Sodium	**133**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:20	7440-23-5	
Vanadium	**1.8 I**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:20	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:20	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:06	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:06	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 13:50	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 13:01	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:01	107-13-1	
Benzene	**1.8**	ug/L	1.0	0.10	1		11/28/18 13:01	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 13:01	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B36 **Lab ID: 35431620004** Collected: 11/16/18 12:57 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 13:01	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:01	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:01	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 13:01	56-23-5	
Chlorobenzene	**3.5**	ug/L	1.0	0.50	1		11/28/18 13:01	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 13:01	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 13:01	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 13:01	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 13:01	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	95-50-1	
1,4-Dichlorobenzene	**0.53 I**	ug/L	1.0	0.50	1		11/28/18 13:01	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:01	110-57-6	
1,1-Dichloroethane	**1.0**	ug/L	1.0	0.50	1		11/28/18 13:01	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 13:01	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 13:01	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:01	591-78-6	
Iodomethane	**2.0 I**	ug/L	10.0	0.50	1		11/28/18 13:01	74-88-4	V
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 13:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:01	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 13:01	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 13:01	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 13:01	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:01	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/28/18 13:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/28/18 13:01	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		11/28/18 13:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/28/18 13:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B36 **Lab ID: 35431620004** Collected: 11/16/18 12:57 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1220**	mg/L	10.0	10.0	1		11/21/18 17:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**254**	mg/L	25.0	12.5	5		11/28/18 16:40	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.34**	mg/L	0.050	0.035	1		11/21/18 09:53	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/17/18 08:17	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: FA-2C **Lab ID: 35431620005** Collected: 11/16/18 11:40 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**7.52**	Std. Units			1		11/16/18 11:40		
Field Temperature	**21.8**	deg C			1		11/16/18 11:40		
Appearance	**Color: Yellow, Sheen: none**				1		11/16/18 11:40		
Field Specific Conductance	**712**	umhos/cm			1		11/16/18 11:40		
Oxygen, Dissolved	**0.09**	mg/L			1		11/16/18 11:40	7782-44-7	
REDOX	**-107.7**	mV			1		11/16/18 11:40		
Turbidity	**0.21**	NTU			1		11/16/18 11:40		
Water Level(NGVD)	**17.31**	feet			1		11/16/18 11:40		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0063 U**	ug/L	0.020	0.0063	1	11/24/18 12:22	11/26/18 07:44	96-12-8	
1,2-Dibromoethane (EDB)	**0.0074 U**	ug/L	0.0099	0.0074	1	11/24/18 12:22	11/26/18 07:44	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**21.3**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:22	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:22	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:22	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:22	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:22	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:22	7440-50-8	
Iron	**719**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:22	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:22	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:22	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:22	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:22	7440-22-4	
Sodium	**46.0**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:22	7440-23-5	
Vanadium	**1.0 I**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:22	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:22	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:07	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:07	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 13:52	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 13:25	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:25	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 13:25	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 13:25	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: FA-2C **Lab ID: 35431620005** Collected: 11/16/18 11:40 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 13:25	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:25	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:25	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 13:25	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 13:25	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 13:25	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 13:25	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 13:25	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:25	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 13:25	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 13:25	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:25	591-78-6	
Iodomethane	**1.5 I**	ug/L	10.0	0.50	1		11/28/18 13:25	74-88-4	V
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 13:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:25	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 13:25	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 13:25	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 13:25	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:25	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/28/18 13:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/28/18 13:25	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		11/28/18 13:25	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/28/18 13:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: FA-2C **Lab ID: 35431620005** Collected: 11/16/18 11:40 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**403**	mg/L	5.0	5.0	1		11/21/18 17:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**61.5**	mg/L	10.0	5.0	2		11/28/18 17:02	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.47**	mg/L	0.050	0.035	1		11/21/18 09:55	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/17/18 08:18	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: FA-2C Dup **Lab ID: 35431620006** Collected: 11/16/18 11:40 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**7.52**	Std. Units			1		11/16/18 11:40		
Field Temperature	**21.8**	deg C			1		11/16/18 11:40		
Appearance	**Color: yellow, Sheen: none**				1		11/16/18 11:40		
Field Specific Conductance	**712**	umhos/cm			1		11/16/18 11:40		
Oxygen, Dissolved	**0.09**	mg/L			1		11/16/18 11:40	7782-44-7	
REDOX	**-107.7**	mV			1		11/16/18 11:40		
Turbidity	**0.21**	NTU			1		11/16/18 11:40		
Water Level(NGVD)	**17.31**	feet			1		11/16/18 11:40		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/24/18 12:22	11/26/18 07:59	96-12-8	
1,2-Dibromoethane (EDB)	**0.0072 U**	ug/L	0.0097	0.0072	1	11/24/18 12:22	11/26/18 07:59	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**21.3**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:25	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:25	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:25	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:25	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:25	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:25	7440-50-8	
Iron	**728**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:25	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:25	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:25	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:25	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:25	7440-22-4	
Sodium	**46.1**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:25	7440-23-5	
Vanadium	**1.0 I**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:25	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:25	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:09	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:09	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 13:59	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 13:50	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:50	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 13:50	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 13:50	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: FA-2C Dup **Lab ID: 35431620006** Collected: 11/16/18 11:40 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 13:50	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:50	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:50	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 13:50	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 13:50	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 13:50	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 13:50	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 13:50	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:50	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 13:50	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 13:50	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:50	591-78-6	
Iodomethane	**1.8 I**	ug/L	10.0	0.50	1		11/28/18 13:50	74-88-4	V
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 13:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 13:50	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 13:50	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 13:50	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 13:50	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 13:50	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/28/18 13:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/28/18 13:50	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/28/18 13:50	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/28/18 13:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: FA-2C Dup **Lab ID: 35431620006** Collected: 11/16/18 11:40 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**400**	mg/L	5.0	5.0	1		11/21/18 17:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**64.7**	mg/L	5.0	2.5	1		11/28/18 17:25	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.47**	mg/L	0.050	0.035	1		11/21/18 10:00	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/17/18 08:24	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: FA-1B **Lab ID: 35431620007** Collected: 11/16/18 13:18 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**7.13**	Std. Units			1		11/16/18 13:18		
Field Temperature	**22.2**	deg C			1		11/16/18 13:18		
Appearance	**Color: yellow, Sheen: none**				1		11/16/18 13:18		
Field Specific Conductance	**575**	umhos/cm			1		11/16/18 13:18		
Oxygen, Dissolved	**0.19**	mg/L			1		11/16/18 13:18	7782-44-7	
REDOX	**-60.6**	mV			1		11/16/18 13:18		
Turbidity	**0.72**	NTU			1		11/16/18 13:18		
Water Level(NGVD)	**21.11**	feet			1		11/16/18 13:18		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/24/18 12:22	11/26/18 08:13	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/24/18 12:22	11/26/18 08:13	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**21.0**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:28	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:28	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:28	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:28	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:28	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:28	7440-50-8	
Iron	**403**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:28	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:28	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:28	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:28	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:28	7440-22-4	
Sodium	**10.4**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:28	7440-23-5	
Vanadium	**1.1 I**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:28	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:28	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:10	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:10	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 14:01	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 14:38	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 14:38	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 14:38	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 14:38	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: FA-1B **Lab ID: 35431620007** Collected: 11/16/18 13:18 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 14:38	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 14:38	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 14:38	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 14:38	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 14:38	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 14:38	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 14:38	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 14:38	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 14:38	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 14:38	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 14:38	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 14:38	591-78-6	
Iodomethane	**1.5 I**	ug/L	10.0	0.50	1		11/28/18 14:38	74-88-4	V
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 14:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 14:38	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 14:38	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	127-18-4	
Toluene	**0.66 I**	ug/L	1.0	0.50	1		11/28/18 14:38	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 14:38	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 14:38	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 14:38	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/28/18 14:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/28/18 14:38	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/28/18 14:38	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/28/18 14:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: FA-1B **Lab ID: 35431620007** Collected: 11/16/18 13:18 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**311**	mg/L	5.0	5.0	1		11/21/18 17:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**13.5**	mg/L	5.0	2.5	1		11/28/18 18:32	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.54**	mg/L	0.050	0.035	1		11/21/18 10:02	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/17/18 08:25	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: F-MB **Lab ID: 35431620008** Collected: 11/16/18 14:20 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**7.11**	Std. Units			1		11/16/18 14:20		
Field Temperature	**23.4**	deg C			1		11/16/18 14:20		
Appearance	**Color: yellow, Sheen: none**				1		11/16/18 14:20		
Field Specific Conductance	**622**	umhos/cm			1		11/16/18 14:20		
Oxygen, Dissolved	**0.09**	mg/L			1		11/16/18 14:20	7782-44-7	
REDOX	**-29.2**	mV			1		11/16/18 14:20		
Turbidity	**8.47**	NTU			1		11/16/18 14:20		
Water Level(NGVD)	**20.38**	feet			1		11/16/18 14:20		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/24/18 12:22	11/26/18 08:28	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/24/18 12:22	11/26/18 08:28	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**18.8**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:31	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:31	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:31	7440-43-9	
Chromium	**1.7 U**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:31	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:31	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:31	7440-50-8	
Iron	**99.9**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:31	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:31	7439-92-1	
Nickel	**2.1 U**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:31	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:31	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:31	7440-22-4	
Sodium	**17.0**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:31	7440-23-5	
Vanadium	**1.0 U**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:31	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:31	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:12	7440-36-0	
Arsenic	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:12	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 14:03	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 15:03	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:03	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 15:03	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 15:03	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: F-MB **Lab ID: 35431620008** Collected: 11/16/18 14:20 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 15:03	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:03	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:03	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 15:03	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 15:03	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 15:03	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 15:03	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 15:03	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:03	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 15:03	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 15:03	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:03	591-78-6	
Iodomethane	**1.3 I**	ug/L	10.0	0.50	1		11/28/18 15:03	74-88-4	V
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 15:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:03	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 15:03	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 15:03	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 15:03	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:03	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/28/18 15:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/28/18 15:03	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		11/28/18 15:03	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/28/18 15:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: F-MB **Lab ID: 35431620008** Collected: 11/16/18 14:20 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**340**	mg/L	5.0	5.0	1		11/21/18 17:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**21.1**	mg/L	5.0	2.5	1		11/28/18 19:39	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.36**	mg/L	0.050	0.035	1		11/21/18 10:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.025 U**	mg/L	0.050	0.025	1		11/17/18 08:26	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B-39 **Lab ID: 35431620009** Collected: 11/16/18 14:58 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	**5.04**	Std. Units			1		11/16/18 14:58		
Field Temperature	**24.1**	deg C			1		11/16/18 14:58		
Appearance	**Color: yellow, Sheen: none**				1		11/16/18 14:58		
Field Specific Conductance	**173.2**	umhos/cm			1		11/16/18 14:58		
Oxygen, Dissolved	**0.33**	mg/L			1		11/16/18 14:58	7782-44-7	
REDOX	**50.1**	mV			1		11/16/18 14:58		
Turbidity	**8.14**	NTU			1		11/16/18 14:58		
Water Level(NGVD)	**24.74**	feet			1		11/16/18 14:58		
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromo-3-chloropropane	**0.0062 U**	ug/L	0.019	0.0062	1	11/24/18 12:22	11/26/18 08:42	96-12-8	
1,2-Dibromoethane (EDB)	**0.0073 U**	ug/L	0.0097	0.0073	1	11/24/18 12:22	11/26/18 08:42	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	**38.4**	ug/L	10.0	0.84	1	11/30/18 11:32	12/03/18 21:34	7440-39-3	
Beryllium	**1.6 U**	ug/L	4.0	1.6	1	11/30/18 11:32	12/03/18 21:34	7440-41-7	
Cadmium	**0.33 U**	ug/L	1.0	0.33	1	11/30/18 11:32	12/03/18 21:34	7440-43-9	
Chromium	**18.0**	ug/L	5.0	1.7	1	11/30/18 11:32	12/03/18 21:34	7440-47-3	
Cobalt	**0.96 U**	ug/L	10.0	0.96	1	11/30/18 11:32	12/03/18 21:34	7440-48-4	
Copper	**2.6 U**	ug/L	5.0	2.6	1	11/30/18 11:32	12/03/18 21:34	7440-50-8	
Iron	**10700**	ug/L	40.0	9.2	1	11/30/18 11:32	12/03/18 21:34	7439-89-6	
Lead	**4.6 U**	ug/L	10.0	4.6	1	11/30/18 11:32	12/03/18 21:34	7439-92-1	
Nickel	**6.1**	ug/L	5.0	2.1	1	11/30/18 11:32	12/03/18 21:34	7440-02-0	
Selenium	**8.5 U**	ug/L	15.0	8.5	1	11/30/18 11:32	12/03/18 21:34	7782-49-2	
Silver	**1.0 U**	ug/L	5.0	1.0	1	11/30/18 11:32	12/03/18 21:34	7440-22-4	
Sodium	**13.9**	mg/L	2.0	0.27	1	11/30/18 11:32	12/03/18 21:34	7440-23-5	
Vanadium	**59.4**	ug/L	10.0	1.0	1	11/30/18 11:32	12/03/18 21:34	7440-62-2	
Zinc	**11.0 U**	ug/L	20.0	11.0	1	11/30/18 11:32	12/03/18 21:34	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:13	7440-36-0	
Arsenic	**11.3**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:13	7440-38-2	
Thallium	**0.50 U**	ug/L	1.0	0.50	1	11/30/18 11:30	12/01/18 20:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10 U**	ug/L	0.20	0.10	1	12/03/18 13:46	12/04/18 14:05	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 15:27	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:27	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 15:27	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 15:27	75-27-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B-39 **Lab ID: 35431620009** Collected: 11/16/18 14:58 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 15:27	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:27	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:27	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 15:27	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 15:27	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 15:27	74-87-3	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 15:27	124-48-1	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 15:27	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:27	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 15:27	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 15:27	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:27	591-78-6	
Iodomethane	**1.2 I**	ug/L	10.0	0.50	1		11/28/18 15:27	74-88-4	V
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 15:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:27	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 15:27	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 15:27	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 15:27	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:27	75-01-4	
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/28/18 15:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/28/18 15:27	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		11/28/18 15:27	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/28/18 15:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: B-39 **Lab ID: 35431620009** Collected: 11/16/18 14:58 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**113**	mg/L	5.0	5.0	1		11/21/18 17:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**18.4**	mg/L	5.0	2.5	1		11/28/18 20:02	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.6**	mg/L	0.050	0.035	1		11/21/18 10:06	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.037 I**	mg/L	0.050	0.025	1		11/17/18 08:27	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: TRIP BLANK 11/15/18 **Lab ID: 35431620010** Collected: 11/16/18 00:00 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		11/28/18 15:52	67-64-1	
Acrylonitrile	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:52	107-13-1	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		11/28/18 15:52	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		11/28/18 15:52	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		11/28/18 15:52	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:52	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:52	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		11/28/18 15:52	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		11/28/18 15:52	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		11/28/18 15:52	74-87-3	
1,2-Dibromo-3-chloropropane	**1.0 U**	ug/L	5.0	1.0	1		11/28/18 15:52	96-12-8	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		11/28/18 15:52	124-48-1	
1,2-Dibromoethane (EDB)	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	106-93-4	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		11/28/18 15:52	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:52	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	107-06-2	
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 15:52	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		11/28/18 15:52	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:52	591-78-6	
Iodomethane	**1.3 I**	ug/L	10.0	0.50	1		11/28/18 15:52	74-88-4	V
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		11/28/18 15:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		11/28/18 15:52	108-10-1	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		11/28/18 15:52	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		11/28/18 15:52	96-18-4	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		11/28/18 15:52	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		11/28/18 15:52	75-01-4	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Sample: TRIP BLANK 11/15/18 **Lab ID: 35431620010** Collected: 11/16/18 00:00 Received: 11/16/18 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Xylene (Total)	**1.0 U**	ug/L	3.0	1.0	1		11/28/18 15:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/28/18 15:52	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/28/18 15:52	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/28/18 15:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 497983 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

METHOD BLANK: 2692403 Matrix: Water
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	12/04/18 13:08	

LABORATORY CONTROL SAMPLE: 2692404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2692405 2692406

Parameter	Units	35431318003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.0	2.1	97	104	75-125	7	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 497573 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

METHOD BLANK: 2690365 Matrix: Water
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	12/03/18 20:14	
Beryllium	ug/L	1.6 U	4.0	1.6	12/03/18 20:14	
Cadmium	ug/L	0.33 U	1.0	0.33	12/03/18 20:14	
Chromium	ug/L	1.7 U	5.0	1.7	12/03/18 20:14	
Cobalt	ug/L	0.96 U	10.0	0.96	12/03/18 20:14	
Copper	ug/L	2.6 U	5.0	2.6	12/03/18 20:14	
Iron	ug/L	9.2 U	40.0	9.2	12/03/18 20:14	
Lead	ug/L	4.6 U	10.0	4.6	12/03/18 20:14	
Nickel	ug/L	2.1 U	5.0	2.1	12/03/18 20:14	
Selenium	ug/L	8.5 U	15.0	8.5	12/03/18 20:14	
Silver	ug/L	1.0 U	5.0	1.0	12/03/18 20:14	
Sodium	mg/L	0.27 U	2.0	0.27	12/03/18 20:14	
Vanadium	ug/L	1.0 U	10.0	1.0	12/03/18 20:14	
Zinc	ug/L	11.0 U	20.0	11.0	12/03/18 20:14	

LABORATORY CONTROL SAMPLE: 2690366

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	250	100	80-120	
Beryllium	ug/L	25	24.4	98	80-120	
Cadmium	ug/L	25	25.2	101	80-120	
Chromium	ug/L	250	251	100	80-120	
Cobalt	ug/L	250	253	101	80-120	
Copper	ug/L	250	242	97	80-120	
Iron	ug/L	2500	2500	100	80-120	
Lead	ug/L	250	253	101	80-120	
Nickel	ug/L	250	254	102	80-120	
Selenium	ug/L	250	248	99	80-120	
Silver	ug/L	25	24.6	99	80-120	
Sodium	mg/L	12.5	12.7	102	80-120	
Vanadium	ug/L	250	248	99	80-120	
Zinc	ug/L	1250	1250	100	80-120	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2690367 2690368

Parameter	Units	35431318001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	3.5 I	250	250	251	254	99	100	75-125	1	20	
Beryllium	ug/L	1.6 U	25	25	24.4	24.5	97	98	75-125	0	20	
Cadmium	ug/L	0.33 U	25	25	24.8	24.9	99	99	75-125	0	20	
Chromium	ug/L	4.2 I	250	250	254	254	100	100	75-125	0	20	
Cobalt	ug/L	0.96 U	250	250	250	252	100	101	75-125	1	20	
Copper	ug/L	2.6 U	250	250	240	240	96	96	75-125	0	20	
Iron	ug/L	11.7 I	2500	2500	2480	2500	99	99	75-125	1	20	
Lead	ug/L	4.6 U	250	250	248	249	99	100	75-125	0	20	
Nickel	ug/L	2.1 U	250	250	251	253	100	101	75-125	0	20	
Selenium	ug/L	8.5 U	250	250	244	243	98	97	75-125	0	20	
Silver	ug/L	1.0 U	25	25	24.4	24.5	98	98	75-125	0	20	
Sodium	mg/L	2.1	12.5	12.5	14.7	14.8	101	101	75-125	1	20	
Vanadium	ug/L	50.5	250	250	299	300	100	100	75-125	0	20	
Zinc	ug/L	11.0 U	1250	1250	1240	1250	99	100	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 497577 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

METHOD BLANK: 2690373 Matrix: Water
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	12/01/18 20:43	
Arsenic	ug/L	0.50 U	1.0	0.50	12/01/18 20:43	
Thallium	ug/L	0.50 U	1.0	0.50	12/01/18 20:43	

LABORATORY CONTROL SAMPLE: 2690374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	53.8	108	80-120	
Arsenic	ug/L	50	51.0	102	80-120	
Thallium	ug/L	50	49.8	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2690375 2690376

Parameter	Units	35431318002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	53.6	53.2	107	106	75-125	1	20	
Arsenic	ug/L	0.50 U	50	50	50.6	50.9	101	101	75-125	1	20	
Thallium	ug/L	0.50 U	50	50	50.9	50.8	102	102	75-125	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 496877 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009, 35431620010

METHOD BLANK: 2686532 Matrix: Water
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009, 35431620010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/28/18 11:24	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/28/18 11:24	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	5.0	1.0	11/28/18 11:24	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/28/18 11:24	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/28/18 11:24	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/28/18 11:24	
Acetone	ug/L	10.0 U	20.0	10.0	11/28/18 11:24	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/28/18 11:24	
Benzene	ug/L	0.10 U	1.0	0.10	11/28/18 11:24	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/28/18 11:24	
Bromoform	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/28/18 11:24	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/28/18 11:24	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/28/18 11:24	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/28/18 11:24	
Chloroform	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/28/18 11:24	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/28/18 11:24	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/28/18 11:24	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/28/18 11:24	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
Iodomethane	ug/L	1.9 I	10.0	0.50	11/28/18 11:24	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/28/18 11:24	
Styrene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
Toluene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

METHOD BLANK: 2686532 Matrix: Water

Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009, 35431620010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/28/18 11:24	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/28/18 11:24	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/28/18 11:24	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/28/18 11:24	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	11/28/18 11:24	
1,2-Dichloroethane-d4 (S)	%	109	70-130		11/28/18 11:24	
4-Bromofluorobenzene (S)	%	91	70-130		11/28/18 11:24	
Toluene-d8 (S)	%	101	70-130		11/28/18 11:24	

LABORATORY CONTROL SAMPLE: 2686533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.5	93	70-130	
1,1,1-Trichloroethane	ug/L	20	16.9	85	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.4	107	68-125	
1,1,2-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	20	17.5	87	70-130	
1,1-Dichloroethene	ug/L	20	15.5	78	66-133	
1,2,3-Trichloropropane	ug/L	20	20.6	103	62-127	
1,2-Dibromo-3-chloropropane	ug/L	20	20.3	102	45-137	
1,2-Dibromoethane (EDB)	ug/L	20	19.2	96	70-130	
1,2-Dichlorobenzene	ug/L	20	19.2	96	70-130	
1,2-Dichloroethane	ug/L	20	17.4	87	70-130	
1,2-Dichloropropane	ug/L	20	18.0	90	70-130	
1,4-Dichlorobenzene	ug/L	20	18.6	93	70-130	
2-Butanone (MEK)	ug/L	40	39.2	98	47-143	
2-Hexanone	ug/L	40	41.9	105	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	40.5	101	57-132	
Acetone	ug/L	40	45.5	114	46-148	
Acrylonitrile	ug/L	200	215	108	60-143	
Benzene	ug/L	20	17.7	89	70-130	
Bromochloromethane	ug/L	20	16.8	84	70-130	
Bromodichloromethane	ug/L	20	17.1	85	70-130	
Bromoform	ug/L	20	17.8	89	49-126	
Bromomethane	ug/L	20	4.1 I	21	10-165	
Carbon disulfide	ug/L	20	17.4	87	60-141	
Carbon tetrachloride	ug/L	20	16.0	80	63-126	
Chlorobenzene	ug/L	20	17.5	87	70-130	
Chloroethane	ug/L	20	17.2	86	71-142	
Chloroform	ug/L	20	17.5	87	70-130	
Chloromethane	ug/L	20	15.7	78	40-140	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

LABORATORY CONTROL SAMPLE: 2686533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	17.2	86	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.4	92	70-130	
Dibromochloromethane	ug/L	20	18.5	93	62-118	
Dibromomethane	ug/L	20	16.9	85	70-130	
Ethylbenzene	ug/L	20	18.2	91	70-130	
Iodomethane	ug/L	40	11.9	30	10-164	
Methylene Chloride	ug/L	20	17.4	87	65-136	
Styrene	ug/L	20	18.7	94	70-130	
Tetrachloroethene	ug/L	20	16.2	81	64-134	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.2	81	68-127	
trans-1,3-Dichloropropene	ug/L	20	19.5	98	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	18.0	90	42-129	
Trichloroethene	ug/L	20	15.8	79	70-130	
Trichlorofluoromethane	ug/L	20	14.7	73	65-135	
Vinyl acetate	ug/L	20	22.4	112	60-144	
Vinyl chloride	ug/L	20	16.0	80	68-131	
Xylene (Total)	ug/L	60	56.1	93	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2688151

Parameter	Units	35431732003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	20.1	101	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	20.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	22.8	114	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	20.5	102	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	20.3	102	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	18.9	95	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	20.1	101	62-127	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	20	21.1	106	45-137	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	20	19.3	97	70-130	
1,2-Dichlorobenzene	ug/L	0.50 U	20	21.3	106	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	19.5	98	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	20.1	100	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.8	104	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	28.9	72	47-143	
2-Hexanone	ug/L	5.0 U	40	32.0	80	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	31.8	80	57-132	
Acetone	ug/L	10.0 U	40	36.2	91	46-148	
Acrylonitrile	ug/L	5.0 U	200	198	99	60-143	
Benzene	ug/L	0.10 U	20	20.1	100	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.0	90	70-130	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

MATRIX SPIKE SAMPLE: 2688151

Parameter	Units	35431732003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	0.27 U	20	19.1	96	70-130	
Bromoform	ug/L	0.50 U	20	18.0	90	49-126	
Bromomethane	ug/L	0.50 U	20	2.9 I	15	10-165	
Carbon disulfide	ug/L	5.0 U	20	16.5	82	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	19.5	98	63-126	
Chlorobenzene	ug/L	0.50 U	20	19.9	100	70-130	
Chloroethane	ug/L	0.50 U	20	15.6	78	71-142	
Chloroform	ug/L	0.50 U	20	20.0	100	70-130	
Chloromethane	ug/L	0.62 U	20	13.5	68	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	19.0	95	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.8	89	70-130	
Dibromochloromethane	ug/L	0.26 U	20	19.1	96	62-118	
Dibromomethane	ug/L	0.50 U	20	17.8	89	70-130	
Ethylbenzene	ug/L	0.50 U	20	20.8	104	70-130	
Iodomethane	ug/L	0.63 I	40	5.5 I	12	10-164	
Methylene Chloride	ug/L	2.5 U	20	22.8	114	65-136	
Styrene	ug/L	0.50 U	20	20.2	101	70-130	
Tetrachloroethene	ug/L	0.50 U	20	16.6	83	64-134	
Toluene	ug/L	0.50 U	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	19.7	98	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	19.7	98	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	14.8	74	42-129	
Trichloroethene	ug/L	0.50 U	20	18.2	91	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	15.0	75	65-135	
Vinyl acetate	ug/L	1.0 U	20	16.6	83	60-144	
Vinyl chloride	ug/L	0.50 U	20	14.9	74	68-131	
Xylene (Total)	ug/L	1.0 U	60	62.0	103	70-130	
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				93	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2688150

Parameter	Units	35431732002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	1.0 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

SAMPLE DUPLICATE: 2688150

Parameter	Units	35431732002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.99 I	0.60 I		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	110	107	3	40	
4-Bromofluorobenzene (S)	%	87	87	0	40	
Toluene-d8 (S)	%	101	102	1	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 495797 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35431620001, 35431620002, 35431620003

METHOD BLANK: 2682120 Matrix: Water
Associated Lab Samples: 35431620001, 35431620002, 35431620003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/25/18 20:58	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/25/18 20:58	

LABORATORY CONTROL SAMPLE: 2682121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.26	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.26	103	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682122 2682123

Parameter	Units	35431370002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.48	0.48	109	110	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	.44	.44	0.47	0.47	109	108	60-140	0	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 495842 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

METHOD BLANK: 2682424 Matrix: Water
Associated Lab Samples: 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/26/18 03:20	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/26/18 03:20	

LABORATORY CONTROL SAMPLE: 2682425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.24	95	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.23	94	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682731 2682732

Parameter	Units	35431620009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	.44	.44	0.48	0.49	109	112	60-140	3	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.45	0.48	103	109	60-140	5	40	

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 495465 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

METHOD BLANK: 2680243 Matrix: Water
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/21/18 17:23	

LABORATORY CONTROL SAMPLE: 2680244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	90-110	

SAMPLE DUPLICATE: 2680245

Parameter	Units	35431216001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	62.0	62.0	0	5	

SAMPLE DUPLICATE: 2680246

Parameter	Units	35431620007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	311	314	1	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 496612
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35431620001

METHOD BLANK: 2685312 Matrix: Water
Associated Lab Samples: 35431620001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/27/18 16:44	

LABORATORY CONTROL SAMPLE: 2685313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2685419 2685420

Parameter	Units	35431420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	106	50	50	163	163	114	114	90-110	0	20	J(M1), L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2686296 2686297

Parameter	Units	35432881001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	73.7	500	500	571	568	99	99	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 496793 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

METHOD BLANK: 2686308 Matrix: Water
Associated Lab Samples: 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/28/18 10:26	

LABORATORY CONTROL SAMPLE: 2686309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2686456 2686457

Parameter	Units	35426220001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	38.9	50	50	93.5	92.7	109	108	90-110	1	20	Q

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2686458 2686459

Parameter	Units	35431620007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.5	50	50	64.7	64.4	102	102	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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 495121 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

METHOD BLANK: 2678375 Matrix: Water
Associated Lab Samples: 35431620001, 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/21/18 09:38	

LABORATORY CONTROL SAMPLE: 2678376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	107	90-110	

MATRIX SPIKE SAMPLE: 2678378

Parameter	Units	35431610002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	1	1.1	104	90-110	

SAMPLE DUPLICATE: 2678377

Parameter	Units	35431610002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.035 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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 494596
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35431620001

METHOD BLANK: 2676018
Matrix: Water
Associated Lab Samples: 35431620001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/17/18 07:27	

SAMPLE DUPLICATE: 2676020

Parameter	Units	35431307001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.041 I	0.040 I		20	

SAMPLE DUPLICATE: 2676022

Parameter	Units	35431538004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	1	20	Q

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

QC Batch: 494597 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

METHOD BLANK: 2676024 Matrix: Water
Associated Lab Samples: 35431620002, 35431620003, 35431620004, 35431620005, 35431620006, 35431620007, 35431620008, 35431620009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/17/18 08:10	

SAMPLE DUPLICATE: 2676026

Parameter	Units	35431620002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 2676028

Parameter	Units	35431638003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

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.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

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.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.
Q	Sample held beyond the accepted holding time.
Q	Sample held beyond the accepted holding time. Sample was received outside EPA method holding time.
V	Indicates that the analyte was detected in both the sample and the associated method blank.

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35431620002	**B35-1**				
35431620003	**B35-2**				
35431620004	**B36**				
35431620005	**FA-2C**				
35431620006	**FA-2C Dup**				
35431620007	**FA-1B**				
35431620008	**F-MB**				
35431620009	**B-39**				
35431620001	**EQ Blank 11/15/18**	EPA 8011	495797	EPA 8011	495964
35431620002	**B35-1**	EPA 8011	495797	EPA 8011	495964
35431620003	**B35-2**	EPA 8011	495797	EPA 8011	495964
35431620004	**B36**	EPA 8011	495842	EPA 8011	495965
35431620005	**FA-2C**	EPA 8011	495842	EPA 8011	495965
35431620006	**FA-2C Dup**	EPA 8011	495842	EPA 8011	495965
35431620007	**FA-1B**	EPA 8011	495842	EPA 8011	495965
35431620008	**F-MB**	EPA 8011	495842	EPA 8011	495965
35431620009	**B-39**	EPA 8011	495842	EPA 8011	495965
35431620001	**EQ Blank 11/15/18**	EPA 3010	497573	EPA 6010	497770
35431620002	**B35-1**	EPA 3010	497573	EPA 6010	497770
35431620003	**B35-2**	EPA 3010	497573	EPA 6010	497770
35431620004	**B36**	EPA 3010	497573	EPA 6010	497770
35431620005	**FA-2C**	EPA 3010	497573	EPA 6010	497770
35431620006	**FA-2C Dup**	EPA 3010	497573	EPA 6010	497770
35431620007	**FA-1B**	EPA 3010	497573	EPA 6010	497770
35431620008	**F-MB**	EPA 3010	497573	EPA 6010	497770
35431620009	**B-39**	EPA 3010	497573	EPA 6010	497770
35431620001	**EQ Blank 11/15/18**	EPA 3010	497577	EPA 6020	497769
35431620002	**B35-1**	EPA 3010	497577	EPA 6020	497769
35431620003	**B35-2**	EPA 3010	497577	EPA 6020	497769
35431620004	**B36**	EPA 3010	497577	EPA 6020	497769
35431620005	**FA-2C**	EPA 3010	497577	EPA 6020	497769
35431620006	**FA-2C Dup**	EPA 3010	497577	EPA 6020	497769
35431620007	**FA-1B**	EPA 3010	497577	EPA 6020	497769
35431620008	**F-MB**	EPA 3010	497577	EPA 6020	497769
35431620009	**B-39**	EPA 3010	497577	EPA 6020	497769
35431620001	**EQ Blank 11/15/18**	EPA 7470	497983	EPA 7470	498121
35431620002	**B35-1**	EPA 7470	497983	EPA 7470	498121
35431620003	**B35-2**	EPA 7470	497983	EPA 7470	498121
35431620004	**B36**	EPA 7470	497983	EPA 7470	498121
35431620005	**FA-2C**	EPA 7470	497983	EPA 7470	498121
35431620006	**FA-2C Dup**	EPA 7470	497983	EPA 7470	498121
35431620007	**FA-1B**	EPA 7470	497983	EPA 7470	498121
35431620008	**F-MB**	EPA 7470	497983	EPA 7470	498121
35431620009	**B-39**	EPA 7470	497983	EPA 7470	498121
35431620001	**EQ Blank 11/15/18**	EPA 8260	496877		
35431620002	**B35-1**	EPA 8260	496877		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tomoka LF Semi-Annual MWs
Pace Project No.: 35431620

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35431620003	**B35-2**	EPA 8260	496877		
35431620004	**B36**	EPA 8260	496877		
35431620005	**FA-2C**	EPA 8260	496877		
35431620006	**FA-2C Dup**	EPA 8260	496877		
35431620007	**FA-1B**	EPA 8260	496877		
35431620008	**F-MB**	EPA 8260	496877		
35431620009	**B-39**	EPA 8260	496877		
35431620010	**TRIP BLANK 11/15/18**	EPA 8260	496877		
35431620001	**EQ Blank 11/15/18**	SM 2540C	495465		
35431620002	**B35-1**	SM 2540C	495465		
35431620003	**B35-2**	SM 2540C	495465		
35431620004	**B36**	SM 2540C	495465		
35431620005	**FA-2C**	SM 2540C	495465		
35431620006	**FA-2C Dup**	SM 2540C	495465		
35431620007	**FA-1B**	SM 2540C	495465		
35431620008	**F-MB**	SM 2540C	495465		
35431620009	**B-39**	SM 2540C	495465		
35431620001	**EQ Blank 11/15/18**	EPA 300.0	496612		
35431620002	**B35-1**	EPA 300.0	496793		
35431620003	**B35-2**	EPA 300.0	496793		
35431620004	**B36**	EPA 300.0	496793		
35431620005	**FA-2C**	EPA 300.0	496793		
35431620006	**FA-2C Dup**	EPA 300.0	496793		
35431620007	**FA-1B**	EPA 300.0	496793		
35431620008	**F-MB**	EPA 300.0	496793		
35431620009	**B-39**	EPA 300.0	496793		
35431620001	**EQ Blank 11/15/18**	EPA 350.1	495121		
35431620002	**B35-1**	EPA 350.1	495121		
35431620003	**B35-2**	EPA 350.1	495121		
35431620004	**B36**	EPA 350.1	495121		
35431620005	**FA-2C**	EPA 350.1	495121		
35431620006	**FA-2C Dup**	EPA 350.1	495121		
35431620007	**FA-1B**	EPA 350.1	495121		
35431620008	**F-MB**	EPA 350.1	495121		
35431620009	**B-39**	EPA 350.1	495121		
35431620001	**EQ Blank 11/15/18**	EPA 353.2	494596		
35431620002	**B35-1**	EPA 353.2	494597		
35431620003	**B35-2**	EPA 353.2	494597		
35431620004	**B36**	EPA 353.2	494597		
35431620005	**FA-2C**	EPA 353.2	494597		
35431620006	**FA-2C Dup**	EPA 353.2	494597		
35431620007	**FA-1B**	EPA 353.2	494597		
35431620008	**F-MB**	EPA 353.2	494597		
35431620009	**B-39**	EPA 353.2	494597		

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

WO# : 35431620

35431620

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information

Company:	Volusia County Solid Waste Management
Address:	1990 Tomoka Farms Road
	Port Orange, FL 32128
Email:	jstirk@volusia.org
Phone: (386)947-2952	Fax:
Requested Due Date:	

Required Project Information:

Report To:	Jennifer Stirk
Copy To:	
Purchase Order #:	
Project Name:	Tomoka LF Semi-annual MWs
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	jeff.baylor@pacelabs.com,
Pace Profile #:	1590, Line 1

Regulatory Agency

State / Location

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS, NO3, CL	ammonia	Metals by 6010/6020/Hg	EDB 8011	8260 VOCs Full List	Trip Blank DO NOT OPEN -	Residual Chlorine (Y/N)
1	EQ					11-16-18	1030												✓	✓	✓	✓	✓		
2	B 35-1						1128																		
3	B 35-2						1152																		
4	B 36						1257																		
5	FA-2C						1140																		
6	DUPLICATE						1140																		
7	FA-1B						1318																		
8	F-MB						1420																		
9	B-39						1458																		
10	TRIP BLANK						0000																	✓	
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SAMPLING KIT EMPTY		11/4/18	1600							
		11-16-18	1630	PACE T338	11/16/18	1630	4.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: DAVID JOICE

SIGNATURE of SAMPLER:

DATE Signed: 11-16-18

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

WO#: 35431620

Project #
Project Manager: PM: JSB **Due Date:** 12/04/18
Client: CLIENT: VOLDPW

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

Thermometer Used: T338 Date: 11/16/18 Time: 1630 Initials: TCM

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

Cooler #1 Temp.°C	1.4 (Visual)	0 (Correction Factor)	1.4 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	4.2 (Visual)	0 (Correction Factor)	4.2 (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	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑ No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☑Yes ☐ No ☐N/A	Preservation Information: Preservative:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑Yes ☐ No ☐N/A	Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm): 11/16/18	☑Yes ☐ No ☐N/A	B-36 1of3 HS
Trip Blank Present:	☐Yes ☑ No ☐N/A	3 vials

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

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual	
WELL NO: B-2	SAMPLE ID: B-2	DATE: 11-16-15

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
			WELL								
			DESTROYED								

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid Waste	SITE LOCATION:	Tomoka LF Semi Annual
WELL NO:	FA-2C	SAMPLE ID:	FA-2C / Duplicate
DATE:	11-16-18		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	3/8		11.30	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (73.78 feet – 11.30 feet) X 0.16 gallons/foot = 9.9968 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
13	13	1110	1140	17.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1124	10.08	10.08	.72	1201	8.43	22.0	707	0.09	0.45	Yellow	Sulfur
1128	2.88	12.96	.72	1201	8.07	21.9	706	0.08	0.30	"	"
1132	2.88	13.84	.72	1201	7.86	22.0	706	0.07	0.30	"	"
1136	2.88	14.72	.72	1201	7.59	21.8	709	0.08	0.28	"	"
1140	2.88	17.60	.72	1201	7.52	21.8	712	0.09	0.21	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
DAVID ICE / PACE		1140	1146

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
13	HDPE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	2	PE	1000	ICE		7.52	TDS, NO3, Cl	ESP	200
	2	1	250	H_2O_3		<2	6010 6020	"	"
	2		1	H_2SO_4		<2	~~H_2SO_4~~ Ammonia	"	"
	4	CG	40	ICE		7.52	8011 EDB	"	"
	6	1	1	HCl		<2	8260 VOCs	"	"

REMARKS: ORP -156.4 ORP -116.1 ORP -107.7 ORP

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid WASTE	SITE LOCATION:	Tomoka LF Semi Annual
WELL NO:	FA-1B	SAMPLE ID:	FA-1B
DATE:	11-16-18		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	3/8		11.74	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (97.95 feet – 11.74 feet) X 0.65 gallons/foot = 56.0365 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
15	15	1230	13.18	86.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1302	57.6	57.6	1.80	14.09	7.14	22.2	5.77	0.60	6.52	Yellow	SULFUR
1310	14.4	72.0	1.80	14.09	7.14	22.2	5.77	0.32	0.62	1	1
1318	14.4	86.4	1.80	14.09	7.13	22.2	5.75	0.19	6.72	1	1

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
DAVID ICE / PACE		13.18	1321

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
15	HDPE	N	

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		7.13	TDS, NO3, Cl	ESP	400
	1	1	250	HNO3		<2	6010 6020	|	|
	1		1	H2SO4		<2	Ammonia		
	2	CG	40	ICE		7.13	~~DRO~~ 8011		
	3	1	1	HCl		<2	8260 VOCs		

REMARKS: ORP -63.5 -62.0 -60.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia county Solid waste | SITE LOCATION: Tomoka LF Semi Annual | DATE: 11-16-18

WELL NO: F-MB | SAMPLE ID: F-MB

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 13.97 | PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (99.12 feet – 13.97 feet) x 0.16 gallons/foot = 13.632 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) & = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17 | FINAL PUMP OR TUBING DEPTH IN WELL. (feet): 17 | PURGING INITIATED AT: 1348 | PURGING ENDED AT: 1420 | TOTAL VOLUME PURGED (gallons): 28.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1404	14.4	14.4	0.9	16.12	7.11	23.3	625	0.10	26.0	Yellow	NONE
1408	3.6	18.0	0.9	16.12	7.11	23.3	624	0.11	21.4		
1412	3.6	21.6	0.9	16.12	7.11	23.3	623	0.09	15.0		
1416	3.6	25.2	0.9	16.12	7.11	23.3	623	0.10	10.2		
1420	3.6	28.8	0.9	16.12	7.11	23.4	622	0.09	8.42		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAVID ICE / PACE | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1420 | SAMPLING ENDED AT: 1423

PUMP OR TUBING DEPTH IN WELL (feet): 17 | TUBING MATERIAL CODE: HDPE | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		7.11	TDS, NO3, Cl	ESP	240
	1	1	250	HNO_3		<2	6010 6020	1	1
	1	1	1	H_2SO_4		<2	AMMONIA		
	2	CG	40	ICE		7.11	8011 EPA		
	3	1	1	HCL		<2	8260 VOCs		

REMARKS: ORP -28.9 ORP -28.8 ORP -28.0 ORP -29.1 ORP -29.2

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Volusia County Solid Waste	SITE LOCATION: Tomoka LF Semi Annual		
WELL NO: B-39	SAMPLE ID: B-39	DATE: 11-16-18	

PURGING DATA

WELL DIAMETER (Inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.00	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (17.76 feet − 5.00 feet) X 0.16 gallons/foot = 2.0416 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7	7	1440	1458	3.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1451	2.2	2.2	0.2	6.26	5.03	24.3	175.3	0.25	8.55	Yellow	SULFUR
1454	0.6	2.8	0.2	6.29	5.03	24.2	173.5	0.42	8.91	1	1
1458	0.6	3.4	0.2	6.32	5.04	24.1	173.2	0.33	8.14		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAVID ICE / PACE	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1458	SAMPLING ENDED AT: 1504
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HOPE, S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	ICE		5.04	TDS, NO3, Cl	APP	≤ 400
	1	1	250	HNO3		<2	6010 6020	1	1
	1	1	1	H2SO4		<2	Ammonia		
	2	CG	40	ICE		5.04	8011 EDB		
	3	1	1	HCL		<2	8260 VOCs		

REMARKS: ORP 61.5 ORP 56.4 ORP 50.1

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME:	Volusia County Solid Waste	SITE LOCATION:	Tomoka LF SGME Annual
WELL NO:	B36	SAMPLE ID:	B36
		DATE:	11-16-16

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	31 feet to 33 feet	1.48	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (34.33 feet – 1.48 feet) X 0.16 gallons/foot = 5.256 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
4	4	12:05	12:51	11.50

TIME (22)	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:27	5.50	5.50	.25	2.78	6.19	22.6	1901	2.11	19.36	yellow	Sulfur
12:33	1.50	7.00	.25	2.78	6.19	22.6	1958	2.01	32.66		
12:39	1.50	8.50	.25	2.78	6.19	22.6	1962	1.94	46.56		
12:45	1.50	10.00	.25	2.78	6.19	22.6	1958	1.86	98.25		
12:51	1.50	11.50	.25	2.78	6.19	22.6	1960.	1.80	9.46		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Bruce Foster		12:57	1300

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
4			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PC	1000	ICE		6.19	TDS Cl NO3	APP	400
	1	PE	750	HNO3			6010 6020		
	1	PE	250	H2SO4			Ammonia		
	3	CG	40	HCL			8260		
	2	CG	40	ICE			624.1		

REMARKS:
ORP -94.4 -101.6 -98.8 -102.7 -105.4

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

MONITOR WELL WATER LEVEL
TOMOKA FARMS ROAD LANDFILL

Current month collection date: 11/5/2018
Sampled by: DI

Well ID	Survey (TOC Elevation)	November 2018 Total well depth(TOC)	November 2018 Depth to water	November 2018 Water Level	May 2018 Water Level	November 2017 Water Level	May 2017 Water Level	November 2016 Water Level	May 2016 Water Level	November 2015 Water Level	May 2015 Water Level	November 2014 Water Level	May 2014 Water Level	November 2013 Water Level	May 2013 Water Level	November 2012 Water Level	April 2012 Water Level	November 2011 Water Level	May 2011 Water Level	November 2010 Water Level
B1-B	28.78	**35.89**	**7.50**	**21.28**	**19.64**	**21.94**	**14.80**	**20.33**	**18.90**	**20.81**	**20.62**	**20.66**	**20.78**	**17.51**	**14.42**	**17.29**	**14.4**	**17.72**	**14.45**	**15.96**
B-2	34.53	**27.34**	**NA**	**#VALUE!**	**27.96**	**29.15**	**26.13**	**28.13**	**27.76**	**28.31**	**27.81**	**27.98**	**26.33**	**24.01**	**23.23**	**24.43**	**22.91**	**24.56**	**23.39**	**23.17**
B-5	32.59	**25.60**	**3.81**	**28.78**	**27.59**	**29.05**	**26.14**	**28.34**	**28.09**	**28.55**	**28.54**	**28.39**	**28.84**	**27.86**	**27.36**	**28.05**	**25.71**	**27.75**	**25.93**	**25.78**
B8-2	33.37	**33.20**	**5.68**	**27.69**	**26.67**	**27.98**	**24.59**	**26.54**	**26.37**	**26.98**	**27.17**	**26.32**	**27.07**	**26.20**	**25.70**	**26.4**	**25.86**	**27.08**	**25.28**	**25.43**
B11	32.95	**16.90**	**3.64**	**29.31**	**27.95**	**29.00**	**25.20**	**27.75**	**27.19**	**28.14**	**28.40**	**27.73**	**28.45**	**24.83**	**24.23**	**25.41**	**18.54**	**26.01**	**23.76**	**23.73**
B33-1	34.69	**39.59**	**6.63**	**28.06**	**26.94**	**28.35**	**24.14**	**26.94**	**26.58**	**27.56**	**27.64**	**27.15**	**27.29**	**24.22**	**23.35**	**24.41**	**22.61**	**26.02**	**23.09**	**23.49**
B33-2	32.97	**17.52**	**4.35**	**28.62**	**27.44**	**29.05**	**24.88**	**27.52**	**27.31**	**28.17**	**28.34**	**27.77**	**28.07**	**25.90**	**25.36**	**26.11**	**24.49**	**28.06**	**24.83**	**25.16**
B34-1	31.19	**34.01**	**2.60**	**28.59**	**27.34**	**28.74**	**24.71**	**27.94**	**27.05**	**28.15**	**27.69**	**27.89**	**27.39**	**25.78**	**25.56**	**26.95**	**24.47**	**27.53**	**24.87**	**25.18**
B34-2	31.20	**17.00**	**1.45**	**29.75**	**28.08**	**29.85**	**25.30**	**29.30**	**27.68**	**29.30**	**28.96**	**29.20**	**28.60**	**26.51**	**26.71**	**29.02**	**25.1**	**29.42**	**25.48**	**25.43**
B35-1	29.26	**33.94**	**0.80**	**28.46**	**26.93**	**28.66**	**25.51**	**28.21**	**27.86**	**28.36**	**28.36**	**28.36**	**28.46**	**27.69**	**26.79**	**27.84**	**25.94**	**25.94**	**25.07**	**25.49**
B35-2	29.34	**17.48**	**0.75**	**28.59**	**27.06**	**28.49**	**26.08**	**28.34**	**28.18**	**28.52**	**28.44**	**28.43**	**28.49**	**28.06**	**27.28**	**28.08**	**24.81**	**24.81**	**24.92**	**25.54**
B36	29.33	**34.33**	**1.20**	**28.13**	**27.42**	**28.10**	**25.63**	**27.63**	**26.52**	**27.86**	**27.91**	**27.77**	**28.13**	**27.67**	**27.31**	**27.68**	**25.28**	**25.28**	**25.42**	**24.16**
B37-1	28.63	**37.74**	**1.10**	**27.53**	**27.32**	**27.54**	**24.70**	**26.98**	**26.54**	**27.21**	**27.41**	**27.33**	**27.68**	**26.99**	**26.53**	**26.96**	**25.02**	**25.02**	**25.31**	**25.4**
B37-2	28.76	**17.00**	**0.75**	**28.01**	**27.43**	**27.91**	**25.08**	**27.31**	**26.47**	**27.58**	**27.54**	**27.36**	**28.01**	**27.47**	**27.29**	**27.37**	**25.32**	**25.32**	**25.43**	**25.67**
B38-1	28.24	**39.50**	**2.98**	**25.26**	**24.10**	**25.31**	**20.04**	**24.14**	**23.05**	**24.77**	**24.72**	**24.69**	**25.04**	**24.17**	**22.68**	**23.94**	**20.2**	**20.2**	**21.01**	**22.81**
B38-2	28.12	**17.35**	**1.32**	**26.80**	**26.07**	**26.69**	**21.30**	**26.32**	**24.11**	**26.60**	**26.62**	**26.77**	**26.87**	**26.58**	**26.44**	**26.38**	**21.54**	**21.54**	**22.85**	**23.18**
B39	29.09	**17.76**	**4.35**	**24.74**	**22.87**	**24.86**	**18.09**	**23.01**	**22.09**	**23.74**	**23.79**	**23.59**	**25.09**	**23.85**	**17.86**	**22.65**	**11.47**	**23.43**	**18.72**	**19.48**
B40-1	27.77	**29.60**	**4.95**	**22.82**	**20.81**	**23.03**	**15.47**	**21.32**	**19.97**	**22.02**	**21.47**	**21.80**	**22.37**	**20.89**	**17.84**	**19.67**	**15.9**	**20.66**	**16.61**	**17.75**
B40-2	27.67	**17.15**	**3.67**	**24.00**	**22.01**	**24.27**	**15.59**	**23.27**	**21.32**	**23.77**	**23.07**	**23.62**	**24.37**	**23.53**	**20.75**	**20.83**	**16.6**	**22.88**	**17.41**	**18.35**
B41-1	29.16	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**20.21**	**20.51**	**18.74**	**15.56**	**18.5**	**14.89**	**18.89**	**15.6**	**17.12**
B41-2	29.27	**17.54**	**5.22**	**24.05**	**21.99**	**24.33**	**15.39**	**23.37**	**20.77**	**23.74**	**23.20**	**23.81**	**24.42**	**23.46**	**16.15**	**21**	**17.02**	**22.94**	**17**	**17.14**
B42-1	28.30	**31.36**	**6.74**	**21.56**	**19.46**	**21.56**	**14.40**	**20.25**	**18.66**	**20.74**	**20.38**	**20.81**	**20.59**	**19.00**	**16.06**	**18.83**	**15.14**	**19.23**	**15.8**	**17.3**
B42-2	28.47	**14.85**	**4.48**	**23.99**	**21.98**	**24.35**	**15.09**	**23.47**	**21.15**	**23.77**	**23.24**	**23.87**	**24.42**	**23.16**	**21.01**	**21.67**	**16.07**	**22.93**	**16.76**	**17.94**
B43-1	28.09	**28.94**	**4.90**	**23.19**	**22.00**	**23.45**	**18.19**	**22.34**	**21.41**	**22.44**	**22.36**	**22.51**	**23.09**	**15.37**	**14.05**	**21.98**	**18.68**	**21.97**	**19.39**	**20.29**
B43-2	28.23	**17.72**	**4.96**	**23.27**	**22.08**	**23.59**	**18.30**	**22.48**	**21.44**	**22.44**	**22.38**	**22.58**	**23.38**	**21.91**	**20.86**	**22.25**	**18.81**	**22.2**	**19.43**	**20.37**
B44	30.03	**14.67**	**6.35**	**23.68**	**23.21**	**23.75**	**20.55**	**23.18**	**22.83**	**23.22**	**23.24**	**23.25**	**23.83**	**22.92**	**23.17**	**23.22**	**20.69**	**23.06**	**21.15**	**21.99**
B45-1	30.28	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**23.85**	**24.23**	**23.39**	**23.29**	**23.69**	**21.09**	**23.43**	**21.82**	**22.28**
B45-2	30.35	**17.46**	**6.40**	**23.95**	**23.41**	**24.02**	**21.70**	**23.50**	**23.30**	**23.46**	**23.55**	**23.53**	**24.30**	**23.36**	**23.84**	**23.62**	**21.08**	**23.36**	**21.83**	**22.29**
B58-1	29.02	**N/A**	**NA**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
B58-2	29.57	**N/A**	**NA**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
B59-1R	32.44	**35.00**	**6.25**	**26.19**	**25.00**	**27.35**	**24.48**	**25.99**	**25.29**	**26.12**	**26.04**	**25.79**	**25.89**	**20.97**	**20.51**	**21.28**	**19.33**	**19.93**	**19.48**	**18.71**
B59-2R	33.12	**17.69**	**6.49**	**26.63**	**25.37**	**27.68**	**25.20**	**26.42**	**25.74**	**26.49**	**26.47**	**26.21**	**26.42**	**20.79**	**20.66**	**21.04**	**19.26**	**19.72**	**19.39**	**18.46**
B60	32.95	**35.75**	**6.60**	**26.35**	**25.16**	**27.55**	**24.85**	**26.25**	**25.79**	**26.27**	**26.22**	**25.90**	**26.10**	**21.74**	**21.50**	**22.05**	**20.12**	**20.61**	**20.23**	**19.33**
B63-1	30.03	**30.43**	**1.50**	**28.53**	**27.18**	**28.60**	**25.72**	**27.83**	**27.23**	**28.13**	**28.15**	**28.05**	**28.58**	**27.66**	**27.15**	**27.86**	**25.5**	**25.5**	**25.59**	**25.87**
B63-2	30.38	**14.40**	**1.81**	**28.57**	**27.36**	**28.45**	**26.03**	**28.13**	**27.40**	**28.27**	**28.20**	**28.10**	**28.43**	**27.82**	**27.42**	**27.97**	**25.45**	**25.45**	**25.47**	**25.74**
B64	28.22	**17.64**	**1.40**	**26.82**	**26.35**	**26.64**	**23.76**	**26.06**	**25.25**	**26.54**	**26.43**	**26.44**	**26.77**	**26.54**	**26.39**	**26.4**	**24.78**	**24.78**	**24.09**	**24.54**
B65	27.97	**17.62**	**3.83**	**24.14**	**24.02**	**24.35**	**19.78**	**23.32**	**21.22**	**23.21**	**23.12**	**23.73**	**24.42**	**23.64**	**15.67**	**20.71**	**16.54**	**22.94**	**16.93**	**17.6**
B67	30.22	**N/A**	**NA**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
B68	32.98	**35.74**	**6.39**	**26.59**	**25.99**	**27.50**	**24.73**	**26.28**	**26.00**	**26.74**	**26.79**	**26.18**	**26.68**	**22.83**	**22.26**	**23.14**	**21.58**	**22.81**	**21.95**	**21.48**
FA-1B	32.22	**97.95**	**11.11**	**21.11**	**19.04**	**21.19**	**13.77**	**18.42**	**17.97**	**20.10**	**NA**	**19.07**	**18.82**	**17.31**	**15.11**	**18.12**	**14.18**	**14.18**	**15.1**	**17.13**
FA-2C	28.10	**73.78**	**10.79**	**17.31**	**15.52**	**17.97**	**9.75**	**15.30**	**13.81**	**16.15**	**15.54**	**15.60**	**15.45**	**13.00**	**10.41**	**13.24**	**9.45**	**13.31**	**10.06**	**12.26**
MO5-B	29.80	**35.85**	**8.75**	**21.05**	**18.87**	**21.36**	**13.95**	**19.65**	**18.05**	**20.00**	**19.82**	**19.80**	**19.95**	**17.54**	**14.78**	**17.59**	**13.9**	**18.95**	**14.58**	**16.05**
B70-1	31.03	**38.15**	**7.99**	**23.04**	**22.39**	**23.73**	**19.7**	**23.03**	**22.88**	**22.03**	**21.15**	**23.53**	**24.03**	**23.13**	**22.76**	**23.02**	**18.68**	**21.03**	**19.25**	**19.51**
B70-2	31.51	**21.93**	**8.05**	**23.46**	**22.63**	**24.21**	**19.68**	**23.41**	**23.36**	**22.19**	**21.42**	**24.01**	**24.61**	**23.71**	**23.31**	**23.49**	**18.98**	**21.34**	**19.64**	**19.68**
B71	30.75	**21.35**	**9.29**	**21.46**	**21.08**	**23.5**	**20.56**	**23.7**	**23.19**	**21.75**	**21.13**	**24.15**	**24.05**	**23.55**	**22.88**	**23.94**	**18.81**	**21.32**	**19.5**	**19.25**
B72	28.93	**21.50**	**7.77**	**21.16**	**20.93**	**22**	**20.64**	**23.08**	**22.93**	**21.71**	**21.01**	**23.66**	**23.53**	**23.13**	**23.03**	**23.44**	**18.71**	**21.31**	**19.38**	**18.85**
B73-1	29.20	**37.18**	**7.60**	**21.60**	**21.09**	**22.24**	**19.4**	**22.45**	**21.83**	**21.29**	**20.24**	**22.5**	**22.7**	**22**	**21.03**	**22.3**	**18.02**	**20.93**	**18.4**	**18.39**
B73-2	28.95	**20.30**	**6.95**	**22.00**	**21.36**	**22.42**	**20.25**	**23.02**	**22.56**	**21.75**	**20.98**	**23.21**	**23.35**	**22.75**	**22.71**	**23.3**	**18.64**	**21.38**	**19.08**	**18.9**
B74	33.78	**21.45**	**14.91**	**18.87**	**20.31**	**19.85**	**21.77**	**29.53**	**28.2**	**29.03**	**29.13**	**28.55**	**29.48**	**28.78**	**30.16**	**23.73**	**18.38**	**19.33**	**18.55**	**18.36**
B75	31.62	**29.90**	**10.75**	**20.87**	**21.6**	**21.2**	**22.12**	**24.27**	**23.42**	**21.62**	**19.99**	**24.61**	**23.12**	**23.87**	**21.45**	**23.43**	**19.19**	**20.02**	**19.1**	**18.87**
F-MB	33.88	**99.17**	**13.50**	**20.38**	**18.37**	**20.62**	**13.27**	**17.93**	**17.32**	**19.42**	**18.98**	**18.6**	**18.53**	**17.08**	**14.79**	**17.71**	**13.76**	**17.58**	**14.61**	**16.44**
B82-1	30.78	**38.65**	**7.00**	**23.78**	**22.77**	**24.04**	**19.78**	**23.03**	**22.48**	**22.95**	**23.15**									
B85	27.07	**43.32**	**6.00**	**21.07**	**18.89**	**21.31**	**13.94**	**18.93**	**17.96**	**19.99**	**17.28**									
B85-6	27.02	**54.51**	**6.05**	**20.97**	**18.84**	**21.19**	**13.84**	**18.87**	**17.86**	**19.89**	**19.6**									
B87-6	29.37	**53.09**	**8.88**	**20.49**	**18.43**	**20.82**	**13.64**	**18.42**	**17.57**	**19.47**	**19.19**									

MONITOR WELL WATER LEVEL
TOMOKA FARMS ROAD LANDFILL

Current month collection date: 11/5/2018
Sampled by: DI

SW ID	November 2018 Staff Gauge	May 2018 Staff Gauge	November 2017 Staff Gauge	May 2017 Staff Gauge	November 2016 Staff Gauge	May 2016 Staff Gauge	November 2015 Staff Gauge	May 2015 Staff Gauge	May 2014 Staff Gauge	November 2013 Staff Gauge	May 2013 Staff Gauge	November 2012 Staff Gauge	April 2012 Staff Gauge	November 2011 Staff Gauge	May 2011 Staff Gauge	November 2010 Staff Gauge
SW-1	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**Dry**	**4.05**	**2.7**	**1.7**	**0.9**	**1.89**	**0.82**	**4.78**	**4.76**
SW-2	**NA**	**2.75**	**5.60**	**1.70**	**5.05**	**4.50**	**4.95**	**5.05**	**5.15**	**5.40**	**4.05**	**2.78**	**4.23**	**2**	**2.9**	**1.96**
SW-3	**NA**	**NA**	**2.15**	**NA**	**1.50**	**NA**	**1.70**	**1.15**	**1.60**	**2.10**	**1.70**	**0.00**	**1.28**	**Dry**	**1.94**	**N/A**
SW-4	**2.90**	**NA**	**3.60**	**NA**	**3.10**	**2.55**	**2.90**	**3.05**	**3.15**	**3.30**	**2.00**	**0.75**	**2.25**	**Dry**	**1.18**	**N/A**
SW-5	**4.30**	**3.90**	**4.45**	**1.70**	**4.00**	**3.90**	**4.00**	**2.85**	**3.95**	**3.20**	**0.20**	**2.15**	**0.68**	**0.625**	**N/A**	**2.9**
SW-11	**NA**	**3.10**	**1.15**	**4.95**	**5.85**	**NA**	**4.25**	**1.05**	**NA**	**5.56**	**NA**	**2.30**	**5.7**	**1.5**	**2.5**	**1.1**
SW-12	**4.50**	**3.20**	**5.90**	**3.05**	**4.50**	**3.60**	**4.45**	**4.25**	**4.15**	**4.30**	**4.20**	**3.98**	**4.30**	**2.43**	**N/A**	**2.7**
North Leachate Pond	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**5.8**			
South Leachate Pond	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**dry**			

Created by: Jeff Baylor, Project Manager