



Regular

Brevard County Board Of County Commissioners Governing Board Of The Brevard Mosquito Control District Governing Board Of The Barefoot Bay Water And Sewer District

2725 Judge Fran Jamieson Way

Viera, FL 32940

Agenda

Tuesday, October 12, 2021

If you wish to speak to any item on the agenda, please fill out a speaker card. Persons addressing the Board shall have three minutes to complete his/her comments on each public hearing agenda item for which he/she has filled out a card.

The Board of County Commissioners requests that speakers appearing under the Public Comment section of the agenda limit their comments and/or presentations to matters under the Board's jurisdiction. It is the responsibility of the Chair to determine the time limit on comments under Public Comment and other agenda items that are not Quasi-Judicial Public Hearings. In Quasi-Judicial proceedings, fifteen (15) minutes shall be allowed for applicants and five (5) minutes for other speakers.

A. CALL TO ORDER 5:00 PM

B. INTENTIONALLY OMITTED

C. PLEDGE OF ALLEGIANCE: Commissioner Zonka, District 5

D. MINUTES FOR APPROVAL: July 20, 2021 Regular, September 2, 2021 Zoning, September 13, 2021 First Budget Hearing

E. RESOLUTIONS, AWARDS AND PRESENTATIONS

E.1. Resolution recognizing the retirement of Patrick Woodard, Chief of Staff District 4

E.2. Resolution recognizing September 15th - October 15th as Hispanic Heritage Month

F. CONSENT AGENDA (The entire Consent Agenda will be passed in one motion to include everything under Section F.)

Development and Environmental Services Group

Natural Resources Management

F.1. Contract amendment granting a time extension to the City of Titusville for a Save Our Indian River Lagoon Septic to Sewer Project (District 1)

- F.2.** Contract amendment granting a time extension to the City of Palm Bay for the Save Our Indian River Lagoon North Area Water Reclamation Facility Upgrade Project (District 3)

North Brevard Economic Development Zone

- F.3.** Approval of Extension Agreement for Development of Property in County-Owned Commerce Park in Titusville.

Planning and Development

- F.4.** Final Plat and Contract Approval, Re: Stadium Parkway - Segment E
Developer: The Viera Company District 4
- F.5.** Final Plat and Contract Approval, Re: Pineda Boulevard West Extension / Segment E
Developer: The Viera Company District 4

Public Works Department

- F.6.** Approval, Re: Donation of Drainage Easement from Michael Lodge for the Cherokee Avenue Drainage Improvement Project - District 1.
- F.7.** Approval, Re: Contract for Sale and Purchase and Addendum with Girl Scouts of Citrus Council, Inc. for the Zone T Sykes Creek Septic to Sewer Conversion Project- District 2.
- F.8.** Approval, Re: Donation of Sanitary Sewer Easement from Casa Loma Estates Co-op, Inc., for the Lift Station T11 Driveway Improvement Plan- District 4.
- F.9.** Approval, Re: Notice of Non-Acceptance of Deed of Easement for Sidewalk Purposes Conveyed to Brevard County from Coop Construction, Inc. - District 1
- F.10.** Approval Re: Permission to Authorize the Public Works Department Director to Select the Acquisition Approach for the Sea Ray Drive Bridge over Sykes Creek Replacement - District 2

Utility Services Department

- F.11.** Request permission to terminate Lease Agreement with Jonathan Cecchi for access to approximately 128 acres adjacent to the South Central Wastewater Treatment Plant.

Community Services Group

Housing and Human Services

- F.12.** Approval, Re: Annual Agreement between Brevard County Board of County Commissioners and Brevard County Health Department and the Associated Health Department Fee Resolution

Support Services Group

Budget

- F.13.** RESOLUTION RE: Approving a loan for the Titusville-Cocoa Airport Authority from Truist Bank
- F.14.** Approval, Re: Budget Change Requests

Miscellaneous

- F.15.** Requisition of Fiscal Year 2022 Budget - Brevard County Sheriff's Office
- F.16.** Requisition of Fiscal Year 2022 Budget - Supervisor of Elections

G. PUBLIC COMMENTS

H. PUBLIC HEARINGS

- H.1.** Petition to Vacate, Re: Public Utility & Drainage Easement- 300 Surf Spray Drive - "Catalina Isle Estates Unit 4" Plat Book 20, Page 47 - Merritt Island - Clark D. and Theresa A. Kugler - District 2

I. UNFINISHED BUSINESS

- I.1.** Recommendation of Legal Counsel Services for the Brevard County Charter Review Commission (CRC)
- I.2.** Consideration and Approval of a Board Policy Relating to Commission District Office Annual Budgets

J. NEW BUSINESS

Development and Environmental Services Group

- J.1.** Approval of a letter request to the U.S. Army Corps of Engineers for a Section 206 study of the feasibility of an ecosystem restoration project at the 528 Causeway in the Banana River
- J.2.** Submittal to Florida Department of Environmental Protection (FDEP) plan for eliminating nonbeneficial surface water discharge per 403.064(17), F.S.
- J.3.** Legislative Intent and Permission to Advertise Amendments to Chapter 46 of the Brevard County Code, creating a new article, Article XI, entitled Landscape Irrigation

Miscellaneous

Add Ons

K. PUBLIC COMMENTS

L. BOARD REPORTS

- L.1. Frank Abbate, County Manager
- L.2. Eden Bentley, County Attorney
- L.3. Rita Pritchett, Commissioner District 1, Chair
- L.4. Bryan Lober, Commissioner District 2
- L.5. John Tobia, Commissioner District 3
- L.6. Curt Smith, Commissioner District 4
- L.7. Kristine Zonka, Commissioner District 5, Vice Chair

In accordance with the Americans with Disabilities Act and Section 286.26, Florida Statutes, persons needing special accommodations or an interpreter to participate in the proceedings, please notify the County Manager's Office no later than 48 hours prior to the meeting at (321) 633-2010.

Assisted listening system receivers are available for the hearing impaired and can be obtained from SCGTV staff at the meeting. We respectfully request that ALL ELECTRONIC ITEMS and CELL PHONE REMAIN OFF while the County Commission is in session. Thank You.

This meeting will be broadcast live on Space Coast Government Television (SCGTV) on Spectrum Cable Channel 499, Comcast (North Brevard) Cable Channel 51, and Comcast (South Brevard) Cable Channel 13 and AT&T U-verse Channel 99. SCGTV will also replay this meeting during the coming month on its 24-hour video server nights, weekends, and holidays. Check the SCGTV website for daily program updates at <http://www.brevardfl.gov>. The Agenda may be viewed at: <http://www.brevardfl.gov/Board Meetings>

In accordance with BCC-97 Section G.1 the agenda shall provide a section for public comment limited to thirty (30) minutes following approval of the consent agenda during each Regular County Commission Meeting. The purpose of public comment is to allow individuals to comment on any topic relating to County business which is not on the meeting agenda. Individuals delivering public comment shall be restricted to a three-minute time limit on their presentation. During this thirty (30) minute segment of public comment, speakers will be heard in the order in which they turned in a pink card asking to be heard. Any speaker not heard during the first thirty minute segment will be heard during a second public comment segment held at the conclusion of business specified on the regular Commission agenda. Individuals may not speak under both the first and second public comment period. With the exception of emergency items, the Board will take no action under the Public Comment section, but can refer the matter to another meeting agenda or request a staff report.

Any invocation that may be offered before the official start of the Commission meeting shall be the voluntary offering of a private citizen, to and for the benefit of the Commission. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the Commission, and the Commission is not allowed by law to endorse the religious beliefs or views of this, or any other speaker.



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Resolution/Award/Presentation

E.1.

10/12/2021

Subject:

Resolution recognizing the retirement of Patrick Woodard, Chief of Staff District 4

Fiscal Impact:

None

Dept/Office:

District 4

Requested Action:

It is requested the Board approve a Resolution recognizing the retirement of Patrick Woodard

Summary Explanation and Background:

Patrick Woodard a life long Brevard resident and Chief of Staff to Commissioner Smith retires after a 47-year career in public service

Clerk to the Board Instructions:

Please frame 1 Resolution

RESOLUTION

WHEREAS, Patrick Woodard, Chief of Staff to District 4 Commissioner Curt Smith, retired on June 7, 2021, after a 47-year career of public service within Brevard County, beginning at the Cape Canaveral Air Force Station Solid Waste Facility in 1974; and

WHEREAS, Pat is a lifelong resident of Brevard County, born in Rockledge, a graduate of Merritt Island High School, and Brevard County Community College; and with his intellect, integrity, and faith-based principals, he has been a mentor to colleagues, constituents, current and future leaders; and

WHEREAS, as a member of the Merritt Island Jaycees for 30 years, Pat developed a love of politics and elections serving as President, Parliamentarian, Chaplain, Regional and State Political Advisor, Campaign Manager, received top individual honor statewide when named Senator, and was the Merritt Island Chapter Advisor when named the best chapter in the nation with the Harold A. Marks Memorial Award; and

WHEREAS, Pat has been involved in community service projects including March of Dimes Walk-a-thon, Merritt Island Fireworks, MDA Telethon Bed Races, Special Olympics, and dressing up as Frankenstein for the Haunted Houses; and

WHEREAS, November 1999, Pat was elected to Palm Bay City Council Seat 2 with 61.5 percent of the vote, serving through November 2008, running unopposed in two reelections; and

WHEREAS, Pat joined the team of D4 Commissioner Mary Bolin Lewis as a Legislative Aide in December 2013 and was hired the following year by Commissioner Curt Smith, keeping informed of the District's needs, maintaining staff decorum, serving the Commissioner loyally, and working for the constituents of Brevard County.

NOW, THEREFORE, BE IT RESOLVED THAT THE BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA, do hereby extend to

PATRICK WOODARD

our sincere appreciation for his dedicated service to Brevard County and wish him many more years of mentoring Alex; vacations with his wife, Sue; drinking Captain Morgan and Diet Cokes; and winning at Woodard Rummy because "If it does not matter if you win or lose, then why keep score?"

DONE, ORDERED AND ADOPTED, in regular session, this 12th day of October, 2021 A.D.



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Resolution/Award/Presentation

E.2.

10/12/2021

Subject:

Resolution recognizing September 15th - October 15th as Hispanic Heritage Month

Fiscal Impact:

None

Dept/Office:

District Five Commission Office

Requested Action:

It is requested that the BOCC approves the resolution recognizing September 15th through October 15th as Hispanic Heritage Month

Summary Explanation and Background:

None

Clerk to the Board Instructions:

Please provide one framed copy of the resolution

RESOLUTION

WHEREAS, National Hispanic Heritage Month is an opportunity to recognize and celebrate the many Americans of Hispanic descent who have made outstanding economic, educational and cultural contributions to our city, state, and nation; and,

WHEREAS, local Hispanic Americans continue their strong tradition of service to the community through their work at the U.T.B. United Third Bridge, a civil rights organization founded by Samuel C. Lopez in 1977 that promotes the advancement of minorities in the areas of education, culture and employment; and,

WHEREAS, special events are taking place throughout the State of Florida and across the nation in observance of Hispanic Heritage Month, celebrating the rich cultural traditions and remarkable impact on American society made by the Hispanic American community; and,

WHEREAS, Brevard's Annual Puerto Rican Day Parade, a Hispanic Heritage Month tradition started by Samuel C. Lopez 24 years ago as a "gift" to children of Hispanic descent, has grown into the largest local celebration of Puerto Rican heritage but is postponed this year due to COVID-19; and

WHEREAS, despite the impacts of COVID-19 on this year's celebrations hosted by the U.T.B. United Third Bridge and the passing earlier this year of their founder, Samuel C. Lopez, the organization still invites all citizens to learn and celebrate the traditions and ancestry of Hispanic Americans during this month.

NOW, THEREFORE, BE IT RESOLVED THAT THE BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA does hereby proclaim the month of September 15 - October 15, 2021, as:

HISPANIC HERITAGE MONTH

and recognizes the outstanding economic, educational, and cultural contributions of Hispanic Americans to Brevard County.

DONE, ORDERED AND ADOPTED, in regular session, this 12th day of October A.D., 2021.

RITA PRITCHETT, CHAIRPERSON
BOARD OF COUNTY COMMISSIONERS
BREVARD COUNTY, FLORIDA

ATTEST:

RACHEL SADOFF, CLERK



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.1.

10/12/2021

Subject:

Contract amendment granting a time extension to the City of Titusville for a Save Our Indian River Lagoon Septic to Sewer Project (District 1)

Fiscal Impact:

This Board action does not change the funding amount, only the timing of anticipated cost-share distributions.

Dept/Office:

Natural Resources Management Department (NRMD)

Requested Action:

Authorize the Chair to execute a time extension amendment to contract number SOIRL 19-109 for the City of Titusville Zones A-G Septic to Sewer Project.

Summary Explanation and Background:

The Board of County Commissioners, in regular session on February 9, 2021, approved the 2021 Save Our Indian River Lagoon Plan Update. This update and all prior plan versions included partially funding through the Save Our Indian River Lagoon Trust Fund for the City of Titusville Zones A-G Septic to Sewer Project.

The City of Titusville has completed 90% preliminary designs for this project which will connect 18 properties located directly along the Indian River Lagoon. Project completion has been delayed by staffing issues related to COVID-19 and cost increases for construction.

Per the Save Our Indian River Lagoon contract, time extensions for longer than six months must be approved by the Board. The city has requested a 3.5-year contract extension.

Clerk to the Board Instructions:

Please execute two original copies of Amendment 2 as provided in Attachment A

CONTRACT REVIEW AND APPROVAL FORM

SECTION I - GENERAL INFORMATION

1. Contractor:		2. Amount:	
3. Fund/Account #:		4. Department Name:	
5. Contract Description:			
6. Contract Monitor:		8. Contract Type:	
7. Dept/Office Director:			
9. Type of Procurement:			

SECTION II - REVIEW AND APPROVAL TO ADVERTISE

APPROVAL

COUNTY OFFICE

YES

NO

SIGNATURE

User Agency

Purchasing

Risk Management

County Attorney

SECTION III - CONTRACTS MANAGEMENT DATABASE CHECKLIST

APPROVAL

COUNTY OFFICE

YES

NO

SIGNATURE

User Agency

Purchasing

Risk Management

County Attorney

SECTION IV - CONTRACTS MANAGEMENT DATABASE CHECKLIST

CM DATABASE REQUIRED FIELDS	Complete ✓
Department Information	
Department	
Program	
Contact Name	
Cost Center, Fund, and G/L Account	
Vendor Information (SAP Vendor #)	
Contract Status, Title, Type, and Amount	
Storage Location (SAP)	
Contract Approval Date, Effective Date, and Expiration Date	
Contract Absolute End Date (No Additional Renewals/Extensions)	
Material Group	
Contract Documents Uploaded in CM database (Contract Form with County Attorney/ Risk Management/ Purchasing Approval; Signed/Executed Contract)	
"Right To Audit" Clause Included in Contract	
Monitored items: Uploaded to database (Insurance, Bonds, etc.)	

AMENDMENT 1 TO THE SAVE OUR INDIAN RIVER LAGOON PROJECT COST-SHARE
FUNDING INTERLOCAL AGREEMENT BETWEEN BREVARD COUNTY, FLORIDA AND THE
CITY OF TITUSVILLE, FLORIDA

AGREEMENT NUMBER: SOIRL 19-109

THIS AMENDMENT is made and entered into by and between the Board of County Commissioners of Brevard County, Florida, a political subdivision of the State of Florida (hereinafter "COUNTY"), and the City of Titusville, Florida, a Florida municipal corporation organized and existing under the laws of the State of Florida (hereinafter "CITY").

WHEREAS, the parties have previously entered into that certain Save Our Indian River Lagoon Project Cost-Share Funding Interlocal Agreement No. SOIRL 19-109 on January 15, 2020 ("Agreement"), which is incorporated herein by this reference; and

WHEREAS, the CITY experienced delays in design due to complexity of construction along the right-of-way of Route U.S. 1, bidding and award, and time for public outreach and consensus, and the parties desire to amend the Agreement to extend the timeline required to complete the Project.

NOW, THEREFORE, in consideration of the promises and mutual covenants herein contained, the parties hereby agree as follows:

1. The above recitals are hereby incorporated herein by this reference.
2. Section 3. Terms and Extensions subsection 3.a. is amended to read as follows:
 - a. The term of this Agreement is from the date upon which the last party has dated and executed the same ("Effective Date") until April 1, 2025 ~~October 31, 2021~~ ("Completion Date"). CITY shall not commence the Project until any required submittals are received and approved. Time is of the essence for every aspect of this Agreement, including any time extensions.
3. Section 25. Local Preference Limitations. is hereby deleted in its entirety and is reserved.
4. The following subsections are added to Section 29. Employment Eligibility Verification (E-Verify) as follows:
 - e. shall require any contractor to provide the City with an affidavit stating that it does not employ, contract with, or subcontract with any unauthorized aliens; and
 - f. Nothing in this Section may be construed to allow intentional discrimination of any class protected by law.
5. The following section is added to the Agreement:

Section 30. Severability.

If any portion of this Contract is found to be invalid or unenforceable or if applicable law mandates a different interpretation or result, the remaining provisions will remain in effect and the parties will negotiate in good faith to substitute for such invalid, illegal, or unenforceable provision a mutually acceptable provision consistent with the original intention of the parties.

6. All terms and conditions of the Agreement, incorporated herein by this reference, not inconsistent with the provisions of this First Amendment, shall remain in full force and effect.

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals on the date last written below

BREVARD COUNTY, FLORIDA

By: _____

Date: _____

Rita Pritchett, Chair

As Approved by the Board on April 9, 2019

Attest

Rachel Sadoff, Clerk

Date: _____

TITUSVILLE, FLORIDA

By: _____

Name: Daniel E. Diesel

Title: Mayor

Date: _____

Attest

By: _____

Name: _____

Title: _____

Date: _____

Reviewed for legal form and content for Brevard County


Alexander Essee, Assistant County Attorney



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.2.

10/12/2021

Subject:

Contract amendment granting a time extension to the City of Palm Bay for the Save Our Indian River Lagoon North Area Water Reclamation Facility Upgrade Project (District 3)

Fiscal Impact:

This board action does not change the funding amount, only the timing of anticipated cost-share distributions.

Dept/Office:

Natural Resources Management Department (NRMD)

Requested Action:

Authorize the Chair to execute a time extension amendment to contract number SOIRL 18-17 with the City of Palm Bay for the North Area Water Reclamation Facility Upgrade.

Summary Explanation and Background:

The Board of County Commissioners, in regular session on February 9, 2021, approved the 2021 Save Our Indian River Lagoon Plan Update. This update and all prior plan versions included partial funding through the Save Our Indian River Lagoon Trust Fund for the City of Palm Bay North Area Water Reclamation Facility Upgrade.

Construction of the City of Palm Bay North Area Water Reclamation Facility Upgrade is approximately 80% complete. The contractor has been waiting over four months for the remaining construction supplies to be delivered and now anticipates a final completion date in December 2021. However, final completion is dependent on the suppliers' and manufacturers' receipt of raw materials.

Per the Save Our Indian River Lagoon contract, time extensions for longer than two six-month periods must be approved by the Board. The City has requested a third 6-month extension.

Clerk to the Board Instructions:

Please execute two original copies of Amendment 3 as provided in Attachment A.

CONTRACT REVIEW AND APPROVAL FORM

SECTION I - GENERAL INFORMATION

1. Contractor:		2. Amount:	
3. Fund/Account #:		4. Department Name:	
5. Contract Description:			
6. Contract Monitor:		8. Contract Type:	
7. Dept/Office Director:			
9. Type of Procurement:			

SECTION II - REVIEW AND APPROVAL TO ADVERTISE

APPROVAL

COUNTY OFFICE

YES

NO

SIGNATURE

User Agency

Purchasing

Risk Management

County Attorney

SECTION III - CONTRACTS MANAGEMENT DATABASE CHECKLIST

APPROVAL

COUNTY OFFICE

YES

NO

SIGNATURE

User Agency

Purchasing

Risk Management

County Attorney

SECTION IV - CONTRACTS MANAGEMENT DATABASE CHECKLIST

CM DATABASE REQUIRED FIELDS	Complete ✓
Department Information	
Department	
Program	
Contact Name	
Cost Center, Fund, and G/L Account	
Vendor Information (SAP Vendor #)	
Contract Status, Title, Type, and Amount	
Storage Location (SAP)	
Contract Approval Date, Effective Date, and Expiration Date	
Contract Absolute End Date (No Additional Renewals/Extensions)	
Material Group	
Contract Documents Uploaded in CM database (Contract Form with County Attorney/ Risk Management/ Purchasing Approval; Signed/Executed Contract)	
"Right To Audit" Clause Included in Contract	
Monitored items: Uploaded to database (Insurance, Bonds, etc.)	

CONTRACT REVIEW AND APPROVAL FORM

SECTION I - GENERAL INFORMATION

1. Contractor:		2. Amount:	
3. Fund/Account #:		4. Department Name:	
5. Contract Description:			
6. Contract Monitor:		8. Contract Type:	
7. Dept/Office Director:			
9. Type of Procurement:			

SECTION II - REVIEW AND APPROVAL TO ADVERTISE

APPROVAL

COUNTY OFFICE

YES

NO

SIGNATURE

User Agency

Purchasing

Risk Management

County Attorney

SECTION III - CONTRACTS MANAGEMENT DATABASE CHECKLIST

APPROVAL

COUNTY OFFICE

YES

NO

SIGNATURE

User Agency

Purchasing

Risk Management

County Attorney

SECTION IV - CONTRACTS MANAGEMENT DATABASE CHECKLIST

CM DATABASE REQUIRED FIELDS	Complete ✓
Department Information	
Department	
Program	
Contact Name	
Cost Center, Fund, and G/L Account	
Vendor Information (SAP Vendor #)	
Contract Status, Title, Type, and Amount	
Storage Location (SAP)	
Contract Approval Date, Effective Date, and Expiration Date	
Contract Absolute End Date (No Additional Renewals/Extensions)	
Material Group	
Contract Documents Uploaded in CM database (Contract Form with County Attorney/ Risk Management/ Purchasing Approval; Signed/Executed Contract)	
"Right To Audit" Clause Included in Contract	
Monitored items: Uploaded to database (Insurance, Bonds, etc.)	

AMENDMENT 3 TO THE SAVE OUR INDIAN RIVER LAGOON PROJECT COST-SHARE
FUNDING INTERLOCAL AGREEMENT BETWEEN BREVARD COUNTY, FLORIDA AND THE
CITY OF PALM BAY, FLORIDA

AGREEMENT NUMBER: SOIRL 18-17

THIS AMENDMENT is made and entered into by and between Brevard County, Florida, a political subdivision of the State of Florida (hereinafter "COUNTY"), and the City of Palm Bay, Florida, a Florida municipal corporation organized and existing under the laws of the State of Florida (hereinafter "CITY").

WHEREAS, the parties have previously entered into that certain Save Our Indian River Lagoon Project Cost-Share Funding Interlocal Agreement No. SOIRL 18-17 on April 6, 2018 ("Agreement"), which is incorporated herein by this reference; and

WHEREAS, the parties previously entered into Amendment 1 to the Agreement on October 22, 2019 to adjust the project cost share and contract expiration date from February 5, 2020 to April 30, 2021 ("Amendment 1"), which is incorporated herein by this reference; and

WHEREAS, the parties previously entered into Amendment 2 to the Agreement on February 5, 2021 to update the Project Managers, Local Preference Limitations, E-Verify Language, and contract expiration date from April 30, 2021 to October 30, 2021 ("Amendment 2"), which is incorporated herein by this reference; and

WHEREAS, the CITY experienced further delays in material acquisition to complete construction due to COVID-19, and the parties desire to amend the Agreement to extend the timeline required to complete the Project.

NOW, THEREFORE, in consideration of the promises and mutual covenants herein contained, the parties hereby agree as follows:

1. The above recitals are hereby incorporated herein by this reference.
2. Section 3. Terms and Extensions subsection 3.a. is amended to read as follows:
 - a. The term of this Agreement is from the date upon which the last party has dated and executed the same ("Effective Date") until April 30, 2022 ~~October 30, 2021~~ ("Completion Date"). CITY shall not commence the Project until any required submittals are received and approved. Time is of the essence for every aspect of this Agreement, including any time extensions.
3. The following section replaces Section 25 to the Agreement:

Section 25. Severability.

If any portion of this Agreement is found to be invalid or unenforceable or if applicable law mandates a different interpretation or result, the remaining provisions will remain in effect and the parties will negotiate in good faith to substitute for such invalid, illegal, or unenforceable provision a mutually acceptable provision consistent with the original intention of the parties.

4. All terms and conditions of the Agreement, and any amendments and other modifications made thereto, which are incorporated herein by this reference, not inconsistent with the provisions of this Third Amendment, shall remain in full force and effect.

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals on the date last written below

BREVARD COUNTY, FLORIDA

By: _____

Date: _____

Rita Pritchett, Chair

As Approved by the Board on May 23, 2017

Attest

Rachel Sadoff, Clerk

Date: _____

PALM BAY, FLORIDA

By: _____

Name: Suzanne Sherman

Title: City Manager

Date: _____

Attest

By: _____

Name: _____

Title: _____

Date: _____

Reviewed for legal form and content for Brevard County:


Alexander Essee, Assistant County Attorney



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.3.

10/12/2021

Subject:

Approval of Extension Agreement for Development of Property in County-Owned Commerce Park in Titusville.

Fiscal Impact:

The initial fee is \$10,000 for a one-year extension, which is refundable if the development project proceeds. For a second year, an additional \$10,000 fee is required. Thus representing a total of \$20,000 paid - none of which is refundable if the deal does not proceed. The Extension Fee would be deposited into a NBEDZ account for use on park-related expenditures only, as per Ordinance No. 2013-08

Dept/Office

North Brevard Economic Development

Requested Action:

The North Brevard Economic Development Zone (NBEDZ) formally requests that the Board of County Commissioners (BOCC) approve an Extension Agreement permitting additional time for the development of approximately four (4) acres of land in the county-owned Spaceport Commerce Park in Titusville by Trout-Hunt Properties, LLC, for the construction of a new manufacturing facility for the company known as Paragon Plastics, and authorize the BOCC chair to execute all documents in connection thereof.

Summary Explanation and Background:

Trout-Hunt Properties, LLC, purchased industrial property in the Spaceport Commerce Park in 2015 for the development of a new 60,000 sq. ft. facility for Paragon Plastics, a company that manufactures plastic thermoformed parts for the marine, automotive, industrial, and aerospace sectors. That company currently employs more than fifty people at the site in Titusville.

In 2018, the BOCC approved the sale of an additional four (4) acres to the company's property holding company, Trout-Hunt Properties, LLC, at the sales price of \$30,000 per acre, for a building expansion project intended to add another 20,000 sq. ft. of manufacturing and distribution space to Paragon Plastics' Titusville operations. However, due to the impacts of COVID-19 and delays encountered in the design and permitting process, the company has not started site development. In the deed transferring ownership of the lot from the county to Paragon's property holding company was a provision requiring the commencement of construction within twenty-four (24) months of title transfer. Since the company has not been able to meet that timetable, the deed provision enables the county to re-purchase the property for the same price (consideration) that the company paid for the land.

The NBEDZ, acting as the county's authorized agent for developing and/or inducing the development of lots within that county-owned business park, formally received and reviewed the property holding company's

request for an extension of two (2) additional years to develop the lot, subject to the provisions contained within an Extension Agreement, including payment of an Extension Fee. The NBEDZ approved the Extension Agreement at its May 14, 2021, board of directors' meeting. Per Ordinance No. 2013-08, the NBEDZ requests that the Board of County Commissioners also approve the Extension Agreement as presented, and permit the property holding company sufficient time to develop the lot for the use intended.

Clerk to the Board Instructions:

Provide signed copy of adopted resolution and extension agreement to CAO and NBEDZ.

**EXTENSION AGREEMENT
TROUT-HUNT PROPERTIES, LLC
PARAGON PLASTICS, LLC**

THIS EXTENSION AGREEMENT (hereinafter the "Contract") is made and entered into this ____ day of _____, 2021, by and between the following Parties: TROUT-HUNT PROPERTIES, LLC, a Florida Limited Liability Company (hereinafter called the "COMPANY"), and the BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA, a political subdivision of the State of Florida (herein referred to as COUNTY). The North Brevard Economic Development District (hereinafter the DISTRICT) is the County's agent for the properties in the Spaceport Commerce Park.

RECITALS

WHEREAS, on May 8, 2018, the COUNTY deeded certain land (Brevard County Parcel Identification 23-35-03-NN-E.10) (hereinafter the "the Property") in the Spaceport Commerce Park to Trout-Hunt Properties LLC, a Florida limited liability company; and

WHEREAS, said Property was adjacent to another lot at 1401 Armstrong Drive, which is also owned by Trout-Hunt Properties, LLC, and is the location where Paragon Plastics, LLC operates its Marine thermoforming and plastics fabrication business; and

WHEREAS, the 2018 sale of the Property was to allow Paragon Plastics, LLC to expand its business onto said Property by the construction of an additional 20,000 square foot building, which expansion was to create 18 additional jobs; and

WHEREAS, as a standard practice, the COUNTY included a reservation in the deed to the Property requiring construction within two years, or the COUNTY has a right to reacquire the Property; and

WHEREAS, the two years expired on May 8, 2020 in the middle of the COVID epidemic; and

WHEREAS, the COMPANY contacted the DISTRICT requesting an extension on the two-year timeframe; and

WHEREAS, the DISTRICT has considered the COMPANY's request, negotiated the following extension terms, and unanimously voted on May 14, 2021 to recommend approval of said extension terms to the COUNTY.

NOW THEREFORE, in consideration of the mutual promises and agreements contained herein, and other valuable and good consideration, the Parties agree as follows:

1. **RECITALS.** The above recitals are true and correct and, are incorporated and made part of this Agreement.
2. **DEED RESERVATION.** The following reservation is in the deed, recorded May 8, 2018 at the Brevard County Official Public Records Book 8159, page 219, where Grantee refers to COMPANY, and Grantor refers to COUNTY.

Grantee agrees to initiate upon the Property the construction of a building approximately 20,000 square feet within two (2) years of transfer of title from Grantor to Grantee. Failure to proceed with the construction of the 20,000 square foot building, as evidenced by receipt of a building permit from the City of Titusville and the pouring upon the Property of a concrete foundation equal to the building footprint specified above within said two (2) year period shall entitle the Grantor to the right to reacquire the Property at the same consideration paid by Grantee.

3. **EXTENSION.** The Parties agree to the following:

- a. **First Extension Fee.** On or before July 26, 2021, the COMPANY will pay a \$10,000 extension fee to be held in escrow by the Brevard County Clerk. Upon receipt of the first extension fee and approval of this Contract by the Board of County Commissioners, the COUNTY agrees it will not exercise COUNTY's right to reacquire the property between July 26, 2021 to July 26, 2022. If this Contract is not approved by COUNTY, the extension fee shall be refunded to COMPANY. Unless paragraph 3b applies, the \$10,000 extension fee will be non-refundable after July 26, 2022, and it will be deposited into the Spaceport Commerce Park account.

- b. **Refund of First Extension Fee.** If COMPANY proceeds with construction of the 20,000 square foot building, as evidenced by receipt of a building permit from the City of Titusville and the pouring upon the Property of a concrete foundation equal to the building footprint on or before July 26, 2022, the COUNTY agrees it will not exercise COUNTY's right to reacquire, that said deed provision is void, and that COUNTY will refund the \$10,000 extension fee to COMPANY. The Parties understand that if COMPANY does not proceed with the second extension fee described in paragraph 3c below, COUNTY may reacquire the property at any time after July 26, 2022 for \$120,000.00.

- c. **Second Extension Fee.** If the COMPANY does not proceed with the construction defined by paragraph 3b above, on or before July 26, 2022, the COMPANY may pay COUNTY an additional \$10,000 second extension fee on or before July 26, 2022. As of July 27, 2022, the second extension fee is non-refundable and will be deposited into the Spaceport Commerce

Park account. Upon receipt of the second extension fee, the COUNTY agrees it will not exercise COUNTY's right to reacquire the expansion lot until after July 26, 2023. If COMPANY proceeds with construction of the 20,000 square foot building, as evidenced by receipt of a building permit from the City of Titusville and the pouring upon the Property of a concrete foundation equal to the building footprint on or before July 26, 2023, the COUNTY agrees it will not exercise COUNTY's right to reacquire, that said deed provision is void.

4. ASSIGNMENT/MODIFICATION. The COMPANY, its assigns or representatives shall not sell or otherwise transfer the Property to any other entity under this Contract without the written approval of the COUNTY, which approval would not be unreasonably withheld. This Contract may not be changed or modified except by written instrument signed by all Parties.

5. ATTORNEY'S FEES AND COSTS/VENUE/GOVERNING LAW. In the event of any litigation between the Parties arising out of this Contract, each Party will bear its own attorney's fees and costs. BOTH PARTIES AGREE TO WAIVER OF ANY RIGHT TO TRIAL BY JURY. The Parties agree that this Contract is governed by the laws of the State of Florida and venue for legal action brought under this Contract shall be in a court of competent jurisdiction in Brevard County, Florida. COMPANY consents and waives any objection or defenses relating to Florida state court having jurisdiction over any dispute or claim arising out of this agreement and consents to process being served upon its Florida registered agent. COMPANY expressly waives removal of any claim or action arising under this agreement to federal court.

6. ENTIRE CONTRACT, COUNTERPARTS. This Contract, including exhibits, riders, and/or addenda, if any, sets forth the entire agreement and understanding between the Parties. This Contract supersedes all prior agreements and negotiations respecting such matter. The Parties acknowledge that they fully reviewed this Contract and had the opportunity to consult with legal counsel of their choice, and that this Contract shall not be construed against any Party as if they were the drafter of the Contract. This Contract may be executed in counterparts all of which, taken together, shall constitute one and the same Contract.

7. SEVERABILITY. If a court of competent jurisdiction finds any provision of this Contract to be invalid, illegal or unenforceable, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired thereby. The Parties shall use their best efforts to rehabilitate and replace the unenforceable provision or provisions of this Contract with lawful terms and conditions approximating the original intent of the Parties.

8. INDEMNIFICATION. To the extent permitted by law, other than the COMPANY's claims arising out of a default by the COUNTY, COMPANY shall indemnify and hold COUNTY harmless for any claims or actions of any nature resulting from or arising out of this CONTRACT, including, but not limited to, actions arising out of the construction or operation of its facilities. However, the COMPANY shall not be liable and will have no duty to defend the COUNTY for the negligent or intentional acts of the COUNTY, its employees or agents.

9. PUBLIC RECORDS/AUDITING. The Parties acknowledge that Chapter 119, Florida Statutes applies to this Contract. **IF THE COMPANY HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE COMPANY'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT THE DISTRICT, MR. TROY POST, TROY.POST@BREVARDFL.GOV, 400 SOUTH STREET, TITUSVILLE, FLORIDA 32780.**

10. All notices required or permitted under this Contract and any written consents or approvals required hereunder shall be in writing and are in effect upon receipt. Notices shall be transmitted either by personal hand delivery; United States Postal Service (USPS), certified mail return receipt requested; or, overnight express mail delivery. E-mail and facsimile transmission may be used if the notice is also transmitted by one of the preceding forms of delivery. The addresses set forth below for the respective Parties shall be the places where notices shall be sent, unless prior written notice of change of address is given.

The Parties' designated representatives and their respective addresses for purposes of this Agreement are as follows:


**Trout-Hunt Properties, LLC
David E. Trout, Manager
283 Leather Fern Lane
Merritt Island, Florida 32953
Phone: 321-631-6212
E-mail: info@paragonplastics.net**

**Troy Post, Executive Director
NORTH BREVARD ECONOMIC DEVELOPMENT ZONE
P.O. Box 399
Titusville, FL 32781
Phone: 321-621-4713
E-mail: troy.post@brevardfl.gov**

(Signature Page Follows)

IN WITNESS WHEREOF, the Parties have executed this Contract on the last date written below by their representatives, fully authorized by all required action to sign on behalf of and to bind that Party to the obligations herein.

COMPANY
TROUT-HUNT PROPERTIES, LLC



David E. Trout, Manager

7-9-21

Date

ATTEST

BOARD OF COUNTY COMMISSIONERS
OF BREVARD COUNTY

BY: _____
Rita Pritchett, Chair

Rachel Sadoff, Clerk

(as approved by the Board on _____2021)

RESOLUTION NO. 2021 - ____

**A RESOLUTION APPROVING EXTENSION AGREEMENT
FOR TROUT-HUNT PROPERTIES, LLC, FOR DEVELOPMENT
OF PROPERTY WITHIN THE SPACEPORT COMMERCE PARK**

WHEREAS, Brevard County, Florida, a political subdivision of the State of Florida, 2725 Judge Fran Jamieson Way, Viera, Florida, 32940, hereinafter known as the COUNTY, deeded certain land (Brevard County Parcel Identification 23-35-03-NN-E.10, hereinafter referred to as “the PROPERTY”) in the Spaceport Commerce Park to Trout-Hunt Properties, LLC, a Florida limited liability company (hereinafter “the COMPANY”); and,

WHEREAS, said PROPERTY was adjacent to another lot in the Spaceport Commerce Park, which is also owned by the COMPANY, and is the location where Paragon Plastics, LLC, operates its manufacturing and plastics fabrication business; and,

WHEREAS, the intent of the sale of the PROPERTY in 2018 was to permit Paragon Plastics, LLC, to expand its operations and construct upon the PROPERTY a 20,000 sq. ft. building, thereby creating eighteen (18) new jobs; and,

WHEREAS, as a standard practice, the COUNTY included a reservation in that deed to the PROPERTY, requiring the start of construction within two (2) years of the PROPERTY’s acquisition, or the COUNTY would have the right to reacquire said PROPERTY; and,

WHEREAS, that two-year period expired on May 8th, 2020, during the middle of the COVID-19 pandemic; and,

WHEREAS, the COMPANY, desiring an extension of that two-year development period, contacted the North Brevard Economic Development Zone (NBEDZ) Dependent Special District (hereinafter “the DISTRICT”), which was created by the Brevard County Board of Commissioners under the powers vested in the Board under Chapter 125, Florida Statutes, Chapter 189, Florida Statutes and section 200.065(1), Florida Statutes, and designated, by Ordinance No. 2013-08, as the COUNTY’s authorized agent for negotiating and executing contracts for the private sale or private lease of county-owned land within the boundaries of the Spaceport Commerce Park; and,

WHEREAS, the DISTRICT considered the COMPANY’s request, negotiated extension terms, and unanimously voted on May 14, 2021 to recommend approval of said extension to the COUNTY; and,

WHEREAS, the DISTRICT believes that this project, with its plan to develop the lot and build a new 20,000 square foot manufacturing facility thereon, will further assist in the economic revival of an area still adversely impacted by changes due to the Great Recession and reduced contractual labor at NASA’s Kennedy Space Center.

NOW, THEREFORE, BE IT RESOLVED, THAT THE BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA agree as follows:

1. The foregoing recitations are true and correct and by this reference incorporated;
2. The development of this parcel promotes industrial development;
3. To execute an Extension Agreement on the above-referenced PROPERTY, a copy of which is attached to this Resolution, for the terms and conditions specified within; and,
4. To empower the Chair, Board of County Commissioners, to execute all necessary documents related to this transaction.

DONE, ORDERED, and ADOPTED, in regular session, this ____ day of _____, 2021.

ATTEST:

BOARD OF COUNTY COMMISSIONERS
OF BREVARD COUNTY, FLORIDA

Rachel Sadoff, Clerk

Rita Pritchett, Chair

As approved by the Board on _____



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.4.

10/12/2021

Subject:

Final Plat and Contract Approval, Re: Stadium Parkway - Segment E
Developer: The Viera Company District 4

Fiscal Impact:

None

Dept/Office:

Planning and Development

Requested Action:

In accordance with Section 62-2841(i) and Section 62-2844, it is requested that the Board of County Commissioners grant final plat approval and authorize the Chair to sign the final plat and contract for Stadium Parkway - Segment E.

Summary Explanation and Background:

There are three stages of review for subdivision plan approval: the pre-application conference, the preliminary plat/final engineering plan review, and the final plat review. The pre-application conference for the above project was held on March 18, 2021. The preliminary plat and final engineering plans, which is the second stage of approval, was approved on September 14, 2021. The third stage of review is the final plat approval for recordation. The applicant is posting a performance bond and contract for guarantee of the completion of the infrastructure improvements.

Staff has reviewed the final plat and contract for the Stadium Parkway - Segment E, and has determined that it is in compliance with the applicable ordinances.

Stadium Parkway - Segment E is located within the Viera DRI, south of the proposed intersection with Pineda Boulevard. The proposal is for a 21.12 acre road segment.

This approval is subject to minor engineering changes as applicable. Board approval of this project does not relieve the developer from obtaining all other necessary jurisdictional permits.

Reference: 21FM00012, 21SD00004

Contact: Amanda Elmore, Assistant Director Ext. 58996

Clerk to the Board Instructions:

Please have the contract signed and return the original and a certified copy to Planning and Development.

**Subdivision Infrastructure
Contract**

THIS CONTRACT entered into this 19th day of October 2021, by and between the Board of County Commissioners of Brevard County, Florida, hereinafter referred to as "COUNTY," and The Viera Company, hereinafter referred to as "PRINCIPAL."

WITNESSETH:

IN CONSIDERATION of the mutual covenants and promises herein contained, the parties hereto agree as follows:

1. The PRINCIPAL agrees to construct the improvements described below:

and all other improvements depicted in subdivision number 21SD00004 / 21FM00012. A copy of said plat to be recorded in the Plat Books of the Public Records of Brevard County.

2. Principal agrees to construct the improvements strictly in accordance with the plans and specifications on file in the Land Development Division (which construction is hereinafter referred to as the "Work"). Such plans and specifications (hereinafter referred to as the "Plans") are hereby incorporated into this Agreement by reference and made a part hereof. Principal warrants to County that the Work will conform to the requirements of the Plans and other requirements specified in the County's approval of the Work. Principal also warrants to County that the Work will be free from faults and defects. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered to be defective. All defective Work, whether or not in place, may be rejected, corrected or accepted as provided in this paragraph 2.

If within two (2) years after approval and acceptance of the improvements by County, any Work is found to be defective, Principal shall promptly, without cost to County, either correct such defective Work, or, if it has been rejected by County, remove it from the site and replace it with nondefective Work. If Principal does not promptly comply with the terms of such instructions, County may elect any of the remedies provided for in paragraph 6 herein below. Corrective Work shall be warranted to be free from defects for a period of six (6) months. Any defect in such Work shall be corrected again by Principal promptly upon notice of the defect from County. In the event the maintenance bond given by Principal in connection with County's acceptance of the improvements is extended, the two (2) year warranty period provided for herein shall be extended for a like period.

To the extent assignable, Principal assigns to County all of Principal's warranty rights under its construction contract with the contractor constructing the improvements (including all warranties provided by law of in equity with respect to such construction contract), which warranties may be asserted by County on behalf of Principal in the event Principal fails to perform its warranty obligations hereunder. Where warranties granted hereunder overlap, the more stringent requirement shall control."

3. The PRINCIPAL agrees to complete said construction on or before the 20th day of September, 2022

4. In order to guarantee performance of PRINCIPAL'S obligations herein contained, PRINCIPAL shall furnish cash, letter of credit, certificate of deposit or surety bond in a form approved by the COUNTY, in the amount of \$8,294,308.78. If such bond is a cash bond or a certificate of deposit, said amount shall be deposited with the Board of County Commissioners within five (5) business days of the County's acceptance of this contract. Said bond shall be 125% of the estimated cost of construction, as determined by the Land Development Division. PRINCIPAL shall maintain such records and accounts, including property, personnel, financial records, as are deemed necessary by the COUNTY to ensure proper accounting for all funds expended under the agreement. Said records shall be made available upon request for audit purposes to Brevard County and its auditors.
5. The COUNTY agrees to accept said plat above described for recording in the public records of Brevard County, Florida and to accept the areas depicted thereon as dedicated for public use, including but not limited to streets and parks, at such time as said improvements are satisfactorily completed. Satisfactory completion in accordance with the plans and specifications shall be determined by written approval of the County Development Engineer or designated assistant.
6. In the event, PRINCIPAL fails to complete said improvements within the time prescribed, the COUNTY may elect to take all or any of the following actions:
 - A. Vacate all or part of such recorded plat where improvements have not Been completed in accordance with the plans and specifications,
 - B. Complete the improvements utilizing COUNTY employees and materials and request payment from the bond or the PRINCIPAL,
 - C. Request the surety on said performance bond to complete such improvements, or
 - D. Contract for completion of said improvements.
7. The PRINCIPAL and Surety on said performance bond shall be liable for all costs, expenses, and damages incurred by the COUNTY, including attorney's fees, in the event the PRINCIPAL defaults on this contract.
8. In the performance of this Agreement, the PRINCIPAL shall keep books, records, and accounts of all activities, related to the agreement, in compliance with generally accepted accounting procedures. Books, records and accounts related to the performance of this agreement shall be open to inspection during regular business hours by an authorized representative of the Office and shall be retained by the PRINCIPAL for a period of three years after termination of this agreement. All records, books and accounts related to the performance of this agreement shall be subject to the applicable provisions of the Florida Public Records Act, Chapter 119 of the Florida Statutes.
9. No reports, data, programs or other materials produced, in whole or in part for the benefit and use of the County, under this agreement shall be subject to copyright by PRINCIPAL in the United States or any other country.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals the day and year first above written.

ATTEST:

**BOARD OF COUNTY COMMISSIONERS
OF BREVARD COUNTY, FLORIDA**

Rachel M. Sadoff, Clerk

Rita Pritchett, Chair

As approved by the Board on: _____, 20____.

WITNESSES:

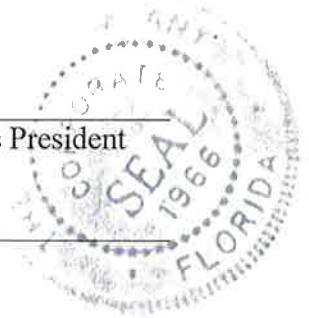
PRINCIPAL: The Viera Company

Karen P. Prosser
KAREN P. PROSSER

Todd J. Pokrywa
Todd J. Pokrywa, as President

Mary Ellen McKibben
Mary Ellen McKibben

9-8-21
DATE



State of: Florida

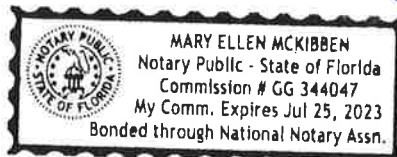
County of: Brevard

The foregoing instrument was acknowledged before me this 8th day of Sept 2021, by Todd J. Pokrywa, Pres who is personally known to me ~~or who has produced~~ as identification and who ~~did~~ (did not) take an oath.

My commission expires:

S E A L

Commission Number:



Mary Ellen McKibben
Notary Public

Mary Ellen McKibben
Notary Name printed, typed or stamped

SURETY PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, **THE VIERA COMPANY**, hereinafter referred to as "Owner" and, **TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA**, hereinafter referred to as "Surety", are held and firmly bound unto the BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA, hereinafter referred to as "County", in the sum of **\$8,294,308.78** for the payment of which we bind ourselves, our heirs, executors, successors and assigns, jointly and severally, firmly by these presents:

WHEREAS, Owner has entered into a contract with the County dated the 12th day of October, 2021, which contract is made a part hereof by reference.

NOW THEREFORE, the condition of this obligation is such that if Owner shall promptly and faithfully perform said contract and complete the work contemplated therein by **September 20th, 2022** then this obligation shall be null and void, otherwise it shall remain in full force and effect.

If the Owner shall be declared in default of said contract by the County, the Surety shall have sixty (60) days from the date of said default within which to take whatever action it deems necessary in order to insure performance. If, at the expiration of sixty (60) days from the date of said default, no arrangements have been made by the Owner or surety satisfactory to the County for the completion of said contract, then the County shall have the right to complete said contract and the Owner and Surety jointly and severally, shall pay all costs of completing said contract to the County, including but not limited to engineering, legal and other costs, together with any damages, either direct or consequential, which the County may sustain on account of the Owner's default of said contract. After the expiration of the aforesaid grace period, the County shall have the additional right to contract for the completion of said contract upon which the Owner has defaulted and upon the County's acceptance of the lowest responsible bid for the completion of said contract, the Owner and Surety shall become immediately liable for the amount of said bid and in the event the County is required to commence legal proceedings for the collection thereof, interest shall accrue at the rate of six percent (6%) per annum beginning with the commencement of such legal proceedings. The County, in its discretion, may permit the Surety to complete said contract, in the event of Owner's default.

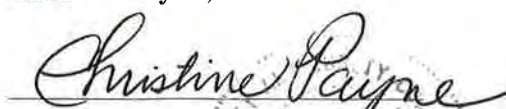
In the event that the County commences suit for the collection of any sums due hereunder, the obligors and each of them agree to pay all costs incurred by the County, including attorney's fees.

EXECUTED this 8th day of Sept, 2021.

OWNER: **THE VIERA COMPANY**


Todd J. Pokrywa, President

SURETY:


Christine Payne, Attorney-in-Fact





Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Christine Payne** of **ORLANDO**

Florida, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **17th** day of **January**, **2019**.



State of Connecticut

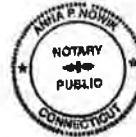
City of Hartford ss

By 
 Robert L. Raney, Senior Vice President

On this the **17th** day of **January**, **2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2021**




 Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **2nd** day of **September**, **2021**




 Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

STADIUM PARKWAY - SEGMENT E

SECTIONS 20, 21 & 29, TOWNSHIP 26 SOUTH, RANGE 36 EAST

BREVARD COUNTY, FLORIDA

PLAT NOTES

1. BEARING REFERENCE: ASSUMED BEARING OF N48°09'45"E ON THE EAST RIGHT-OF-WAY LINE OF STADIUM PARKWAY, ACCORDING TO THE PLAT OF STADIUM PARKWAY EXTENSION - SEGMENT D AS RECORDED IN ROAD PLAT BOOK 5, PAGE 34, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.
2. SURVEY MONUMENTATION WITHIN THE SUBDIVISION SHALL BE SET IN ACCORDANCE WITH FLORIDA STATUTES CHAPTER 177.091(8).
3. ALL LINES ARE RADIAL UNLESS OTHERWISE NOTED.
4. THE 2-MILE CANAL DRAINAGE EASEMENT AREA SHOWN GRAPHICALLY HEREON IS SUBJECT TO THAT CERTAIN DUDADISTRICT CANAL SYSTEM DRAINAGE EASEMENT AS RECORDED IN OFFICIAL RECORDS BOOK 3249, PAGE 603, AS SUBSEQUENTLY AMENDED FROM TIME TO TIME, INCLUDING WITHOUT LIMITATION, BY THAT CERTAIN ELEVENTH MODIFICATION AND AMENDMENT RECORDED IN OFFICIAL RECORDS BOOK 8384, PAGE 264, ALL IN THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, WHICH EASEMENT PROVIDES FOR THE CONSTRUCTION, OPERATION AND MAINTENANCE OF A CANAL SYSTEM FOR THE PURPOSE OF CONVEYING STORMWATER DRAINAGE. BREVARD COUNTY SHALL NOT BE RESPONSIBLE FOR THE MAINTENANCE, REPAIR, AND/OR RESTORATION OF ANY STORMWATER PIPES, CULVERTS, STORM STRUCTURES, OR STORMWATER MANAGEMENT FACILITIES ASSOCIATED WITH SAID DRAINAGE EASEMENT AND, REGARDING THAT PORTION OF THE EASEMENT AREA SHOWN HEREON, THE VIERA STEWARDSHIP DISTRICT IS RESPONSIBLE. FOR SUCH INSPECTION, MAINTENANCE, REPAIR, AND/OR RESTORATION IN ACCORDANCE WITH THAT CERTAIN CANAL MAINTENANCE AGREEMENT RECORDED IN OFFICIAL RECORDS BOOK 8384, PAGE 281, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA. TO THE EXTENT THAT ANY DRAINAGE PIPES, CULVERTS, OR STRUCTURES LOCATED WITHIN THE RIGHT-OF-WAY OF STADIUM PARKWAY ARE ALSO WITHIN SAID DRAINAGE EASEMENT AREA, BREVARD COUNTY SHALL BE RESPONSIBLE FOR MAINTAINING ONLY THOSE PIPES AND STRUCTURES THAT CONVEY DRAINAGE FROM STADIUM PARKWAY. BREVARD COUNTY SHALL NOT BE RESPONSIBLE FOR ANY ROADWAY REPAIRS NEEDED DUE TO THE FAILURE AND SUBSEQUENT REPAIR OF ANY STORMWATER PIPES, CULVERTS, STORM STRUCTURES, OR FACILITIES ASSOCIATED WITH SUCH 2-MILE CANAL DRAINAGE EASEMENT LOCATED WITHIN THE STADIUM PARKWAY RIGHT-OF-WAY.

DESCRIPTION OF STADIUM PARKWAY EXTENSION - SEGMENT E

A PARCEL OF LAND LOCATED IN SECTIONS 20, 21, AND 29, TOWNSHIP 26 SOUTH, RANGE 36 EAST, BREVARD COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEAST CORNER OF STADIUM PARKWAY EXTENSION-SEGMENT D, ACCORDING TO THE PLAT THEREOF AS RECORDED IN ROAD PLAT BOOK 5, PAGE 34, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA AND RUN NORTHWEST ALONG THE ARC OF THE CURVED SOUTHERLY LINE OF SAID STADIUM PARKWAY EXTENSION-SEGMENT D, (SAID CURVE BEING CURVED CONCAVE TO THE SOUTHWEST AND HAVING A RADIUS OF 2135.00 FEET, A CENTRAL ANGLE OF 0°34'08", A CHORD BEARING OF N44°12'34"W AND A CHORD LENGTH OF 21.19 FEET), A DISTANCE OF 21.19 FEET TO A POINT OF REVERSE CURVATURE; THENCE CONTINUING ALONG SAID SOUTHERLY LINE AND ALONG THE ARC OF SAID CURVE, (SAID CURVE BEING CURVED CONCAVE TO THE NORTHEAST AND HAVING A RADIUS OF 12,000.00 FEET, A CENTRAL ANGLE OF 0°51'18", A CHORD BEARING OF N44°03'58"W AND A CHORD LENGTH OF 179.08 FEET), A DISTANCE OF 179.08 FEET TO AN INTERSECTION WITH A NON-TANGENT LINE TO THE SOUTHWEST; THENCE S48°45'27"W ALONG SAID NON-TANGENT LINE, A DISTANCE OF 150.13 FEET TO A NON-TANGENT INTERSECTION WITH A CURVE TO THE RIGHT; THENCE ALONG THE ARC OF SAID CURVE, (SAID CURVE BEING CURVED CONCAVE TO THE WEST AND HAVING A RADIUS OF 25.00 FEET, A CENTRAL ANGLE OF 91°46'18", A CHORD BEARING OF S02°16'36"W AND A CHORD LENGTH OF 35.90 FEET), A DISTANCE OF 40.04 FEET TO THE END OF SAID CURVE; THENCE S48°09'45"W A DISTANCE OF 1155.37 FEET TO THE BEGINNING OF A CURVE TO THE LEFT; THENCE ALONG THE ARC OF SAID CURVE, (SAID CURVE BEING CURVED CONCAVE TO THE SOUTHEAST AND HAVING A RADIUS OF 1775.00 FEET, A CENTRAL ANGLE OF 48°09'45", A CHORD BEARING OF S24°04'53"W AND A CHORD LENGTH OF 1448.52 FEET), A DISTANCE OF 1448.52 FEET TO THE END OF SAID CURVE; THENCE S00°00'00"E, A DISTANCE OF 804.47 FEET TO THE BEGINNING OF A CURVE TO THE LEFT; THENCE ALONG THE ARC OF SAID CURVE, (SAID CURVE BEING CURVED CONCAVE TO THE EAST AND HAVING A RADIUS OF 3575.00 FEET, A CENTRAL ANGLE OF 5°54'06", A CHORD BEARING OF S02°57'03"E AND A CHORD LENGTH OF 368.07 FEET), A DISTANCE OF 368.07 FEET TO THE END OF SAID CURVE; THENCE S05°54'06"E A DISTANCE OF 1183.58 FEET TO THE BEGINNING OF A CURVE TO THE RIGHT; THENCE ALONG THE ARC OF SAID CURVE, (SAID CURVE BEING CURVED CONCAVE TO THE WEST AND HAVING A RADIUS OF 4925.00 FEET, A CENTRAL ANGLE OF 9°48'48", A CHORD BEARING OF S00°59'42"E AND A CHORD LENGTH OF 842.49 FEET), A DISTANCE OF 842.49 FEET TO THE END OF SAID CURVE; THENCE S03°54'42"W A DISTANCE OF 112.19 FEET, THENCE S86°05'18"E A DISTANCE OF 150.00 FEET; THENCE N03°54'42"E A DISTANCE OF 112.19 FEET TO THE BEGINNING OF A CURVE TO THE LEFT; THENCE ALONG THE ARC OF SAID CURVE, (SAID CURVE BEING CURVED CONCAVE TO THE WEST AND HAVING A RADIUS OF 5075.00 FEET, A CENTRAL ANGLE OF 9°48'48", A CHORD BEARING OF N00°59'42"W AND A CHORD LENGTH OF 868.15 FEET), A DISTANCE OF 868.15 FEET TO THE END OF SAID CURVE; THENCE N08°09'45"E A DISTANCE OF 1163.16 FEET TO THE BEGINNING OF A CURVE TO THE RIGHT; THENCE ALONG THE ARC OF SAID CURVE, (SAID CURVE BEING CURVED CONCAVE TO THE SOUTH AND HAVING A RADIUS OF 25.00 FEET, A CENTRAL ANGLE OF 87°41'58", A CHORD BEARING OF S87°59'16"E AND A CHORD LENGTH OF 34.64 FEET), A DISTANCE OF 38.27 FEET TO A NON-TANGENT INTERSECTION WITH A LINE TO THE NORTHEAST; THENCE N48°53'34"E ALONG SAID NON-TANGENT LINE A DISTANCE OF 150.20 FEET TO THE POINT OF BEGINNING. CONTAINING 21.12 ACRES, MORE OR LESS.

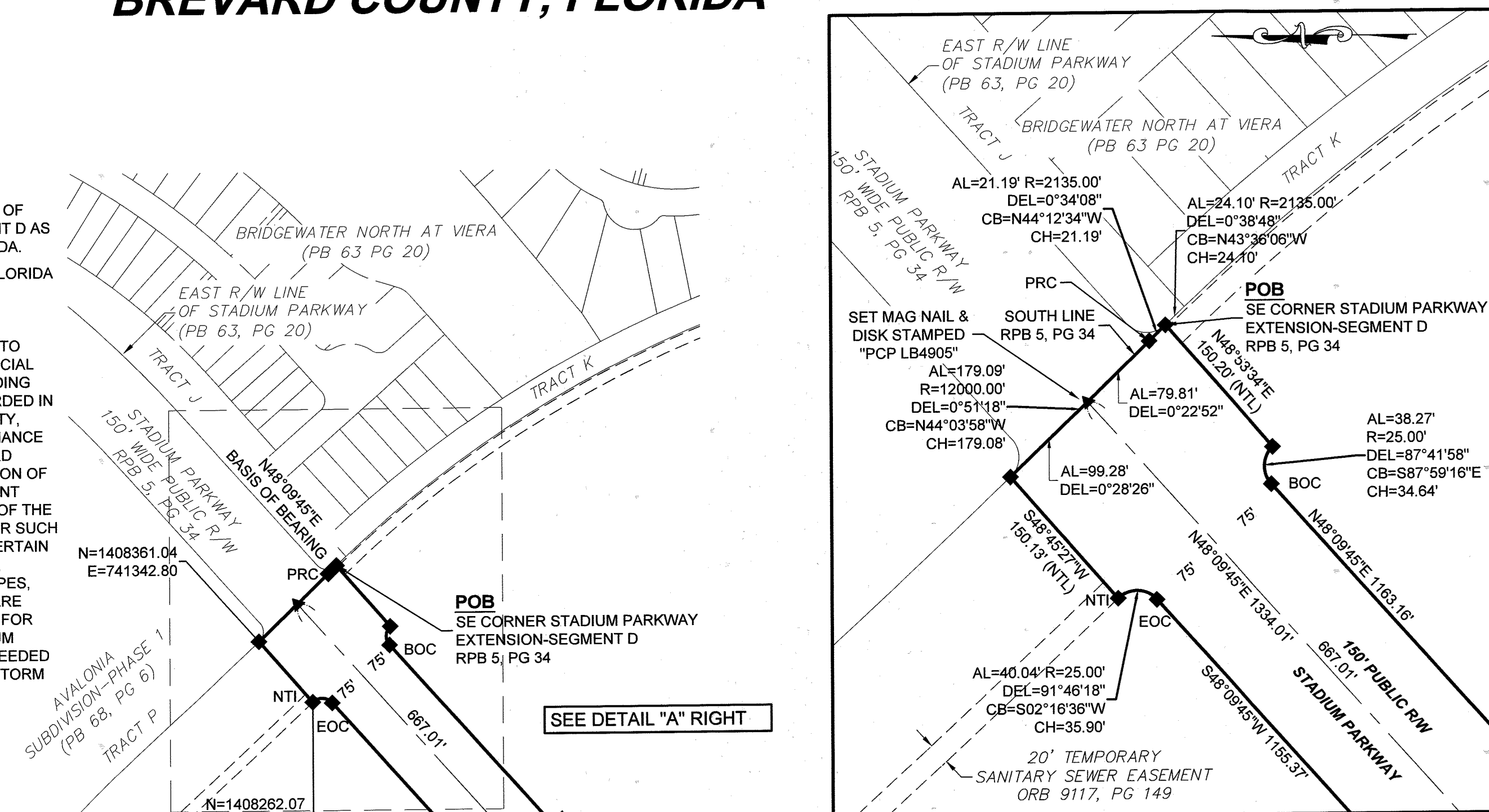
STATE PLANE COORDINATE NOTES:
THE COORDINATES SHOWN HEREON ARE BASED ON THE STATE PLANE COORDINATE SYSTEM FOR FLORIDA'S EAST ZONE NORTH AMERICAN DATUM OF 1983 AND READJUSTED IN 1999 (NAD83/99).

A GPS CONTROL SURVEY UTILIZING THREE ASHTech PROMARK 2 GPS RECEIVERS WAS PERFORMED ON 12/04/04. THE NETWORK VECTOR DATA WAS ADJUSTED BY LEAST SQUARES METHOD UTILIZING ASHTech SOLUTIONS VERSION 2.7 THE STATIONS SHOWN BELOW WERE HELD FIXED IN THE NETWORK ADJUSTMENT.

DESIGNATION	PID	NORTHING	N METERS	EASTING	E METERS	N. LATITUDE	W. LONGITUDE	COMBINED SCALE FACTOR	CONVERGENCE ANGLE
DURAN AZ MK 6	AK7519	1,426,329.224	434,746.017	738,933.411	225,227.354	28°15'26.19882"	080°44'34.43002"	0.99994903	(+)*0°07' 18.2"
BREVARD GPS 1090	AK7524	1,422,840.468	433,682.642	740,680.093	225,759.744	28°14'51.61826"	080°44'14.98184"	0.99994936	(+)*0°07' 27.3"
I 95 73A64	AK2846	1,416,452.318	431,735.530	746,854.0344	227,641.565	28°13'48.22765"	080°43'06.11244"	0.99995250	(+)*0°07' 59.6"

THE COORDINATE VALUES SHOWN ON THE PLAT BOUNDARY AND THE SURROUNDING SECTION CORNERS WERE COMPUTED USING AUTODESK LAND DEVELOPMENT DESKTOP. A PROJECT SCALE FACTOR OF 0.99995030 WAS USED TO CONVERT GROUND DISTANCE TO GRID DISTANCE. THE DISTANCES SHOWN ON THIS PLAT ARE GROUND DISTANCES. THE PROJECT SCALE FACTOR CAN BE APPLIED TO CONVERT THE GROUND DISTANCE TO GRID DISTANCE. ALL OF THE VALUES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.

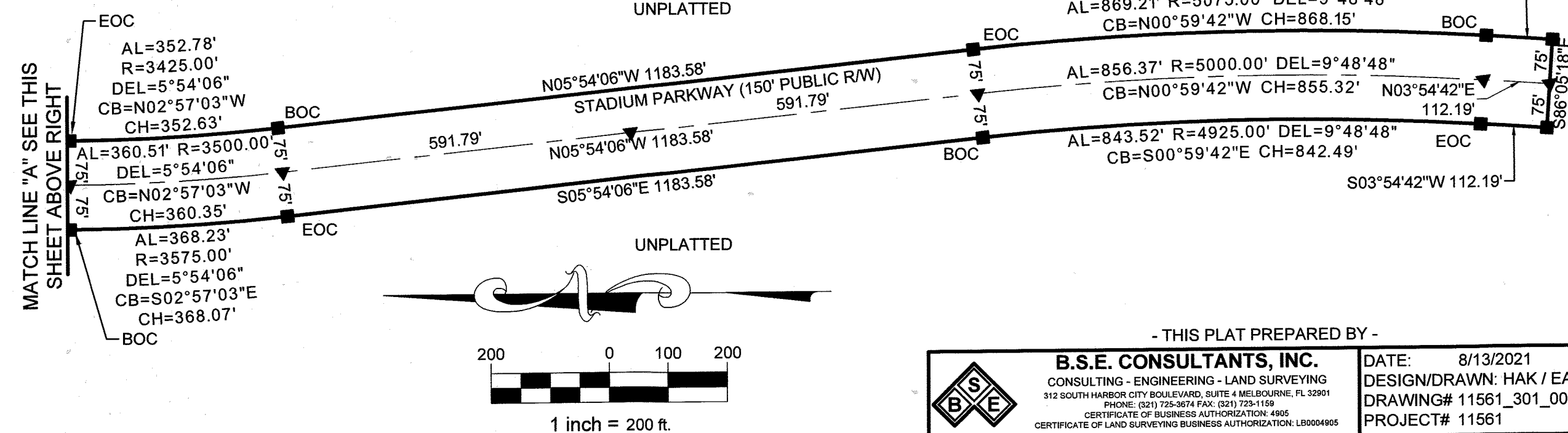
NOTICE: THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.



2-MILE CANAL
ORB 3249, PG 603; ORB 3605, PG 4314
ORB 3797, PG 598; ORB 3937, PG 647;
ORB 5117, PG 3622; ORB 7651, PG 278;
ORB 8384, PG 264

ABBREVIATIONS

AL	ARC LENGTH	(NTL)	NON-TANGENT LINE
BOC	BEGINNING OF CURVE	PB	PLAT BOOK
CA	CENTRAL ANGLE	PG(S)	PAGE(S)
CB	CHORD BEARING	POB	POINT OF BEGINNING
CH	CHORD LENGTH	POC	POINT OF COMMENCEMENT
COR	CORNER	POV	POINT OF VIEW
DEL	DELTA / CENTRAL ANGLE	PRC	POINT OF REVERSE CURVATURE
EOC	END OF CURVE	R	RADIUS
FGT	FLORIDA GAS TRANSMISSION	RCP	REINFORCED CONCRETE PIPE
FP&L	FLORIDA POWER AND LIGHT	RPB	ROAD PLAT BOOK
OR/ORB	OFFICIAL RECORDS BOOK	SW	SOUTHWEST
(NR)	NOT RADIAL	TYP	TYPICAL

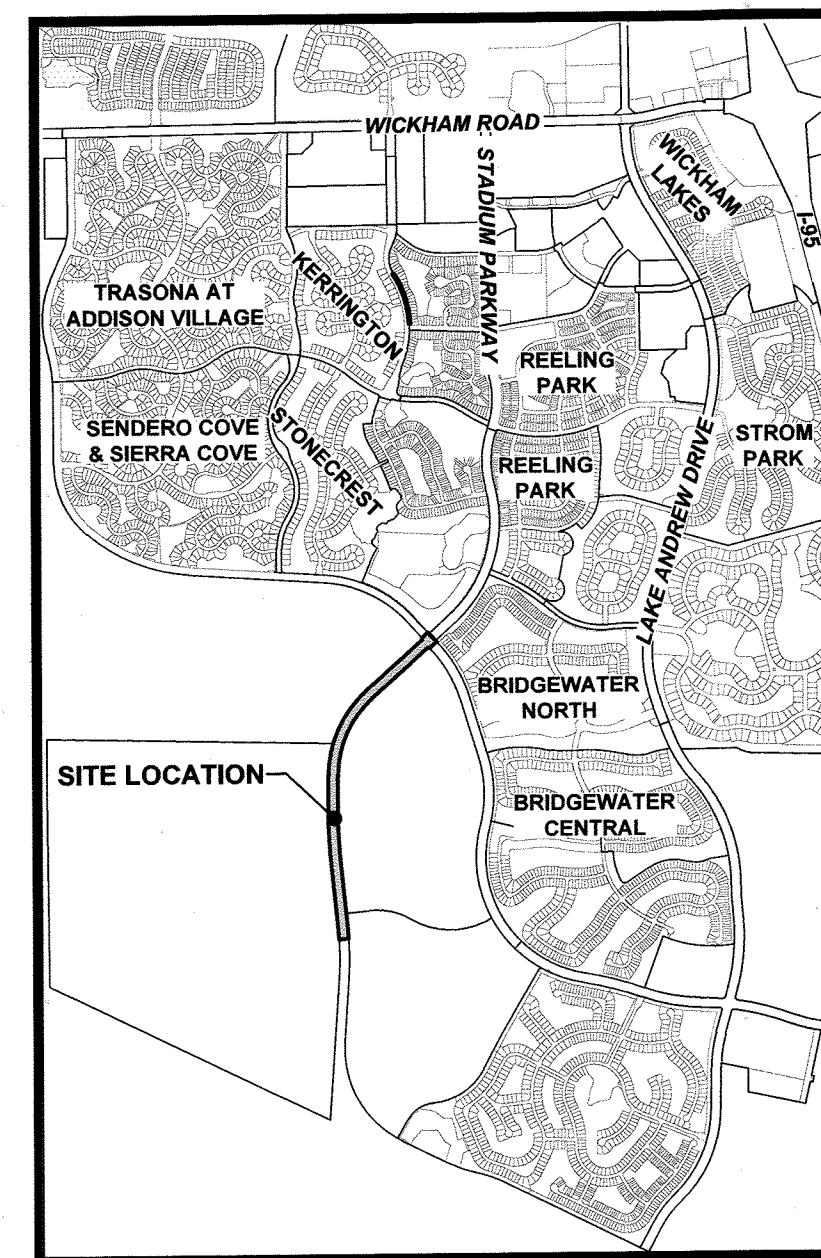


LOCATION MAP

N.T.S.

SURVEY SYMBOL LEGEND

- PERMANENT REFERENCE MONUMENT (PRM); SET 4"x4" CONCRETE MONUMENT W/DISK, STAMPED PRM LB4905, UNLESS OTHERWISE NOTED.
- PERMANENT CONTROL POINT (PCP); SET 1/2" IRON ROD & CAP STAMPED "PCP LB4505", UNLESS OTHERWISE NOTED



ROAD PLAT BOOK __, PAGE __

SHEET 1 OF 1
SECTIONS 20, 21 & 29 TOWNSHIP 26 SOUTH, RANGE 36 EAST

DEDICATION

KNOW ALL MEN BY THESE PRESENTS, The Viera Company, being the owner in fee simple of the lands described in

STADIUM PARKWAY - SEGMENT E

Hereby dedicates said lands and plat for the uses and purposes therein expressed and hereby dedicates the right-of-way of Stadium Parkway as shown hereon to Brevard County for the perpetual use of the public for roadway, drainage, sidewalk, utilities and associated purposes.

By: *Todd J. Pokrywa*
President: Todd J. Pokrywa

Attest: *Jay A. Decator, III*
Secretary: Jay A. Decator, III

THE VIERA COMPANY
7380 MURRELL ROAD, SUITE 201
MELBOURNE, FLORIDA 32940

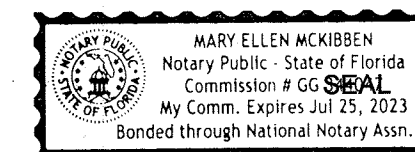
STATE OF FLORIDA
COUNTY OF BREVARD

The foregoing instrument was acknowledged before me by means of ☒ physical presence of ☐ online notarization, this 20 Sept. 2021 by Todd J. Pokrywa and Jay A. Decator, III, respectively President and Secretary of the above named corporation incorporated under the laws of State of Florida, on behalf of the company, who are ☒ personally known to me or ☐ have produced ☐ as identification.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the above date.

Mary Ellen McKibben
NOTARY PUBLIC

Mary Ellen McKibben
Notary Public, State of Florida
My Comm. Expires July 25, 2023
Comm. No. GG344047



CERTIFICATE OF SURVEYOR

KNOW ALL MEN BY THESE PRESENTS, That the undersigned, being a licensed professional surveyor and mapper, does hereby certify that on 5/17/2021 he completed the boundary survey of the lands shown on the foregoing plat; and that said plat was prepared under his direction and supervision and that said plat complies with all of the survey requirements of Chapter 177, part 1, Florida Statutes, and County Ordinance 62-2841 (c)(d) as amended, and that said lands are located in Brevard County, Florida.

Leslie E. Howard
Registration Number: 5811
LESLEE E. HOWARD
B.S.E. Consultants, Inc.
312 South Harbor City Boulevard, Suite #4
Melbourne, Fla. 32901
Certificate of Authorization Number: LB-0004905

CERTIFICATE OF COUNTY SURVEYOR

I HEREBY CERTIFY, That I have reviewed the foregoing plat and find that it is in conformity with Chapter 177, part 1, Florida Statutes and County Ordinance 62-2841 (c)(d) as amended.

Michael J. Sweeney, Professional Surveyor & Mapper No. 4870

CERTIFICATE OF ACCEPTANCE OF DEDICATION BY BOARD OF COUNTY COMMISSIONERS

THIS IS TO CERTIFY, That the Board of County Commissioners hereby accepts the right-of-way of Stadium Parkway dedicated for the public use on this plat.

Rita Pritchett, Chair
ATTEST:
Clerk of the Board

CERTIFICATE OF APPROVAL BY BOARD OF COUNTY COMMISSIONERS

THIS IS TO CERTIFY, That on _____ the foregoing plat was approved by the Board of County Commissioners of Brevard County, Florida.

Rita Pritchett, Chair
ATTEST:
Clerk of the Board

CERTIFICATE OF CLERK

I HEREBY CERTIFY, That I have examined the foregoing plat and find that it complies in form with all the requirements of Chapter 177, part 1 Florida Statutes, and was filed for record on _____ at _____ File No. _____

ATTEST:
Clerk of the Circuit Court in and for Brevard County, Fla.



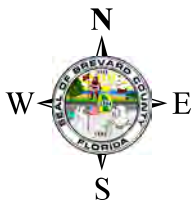
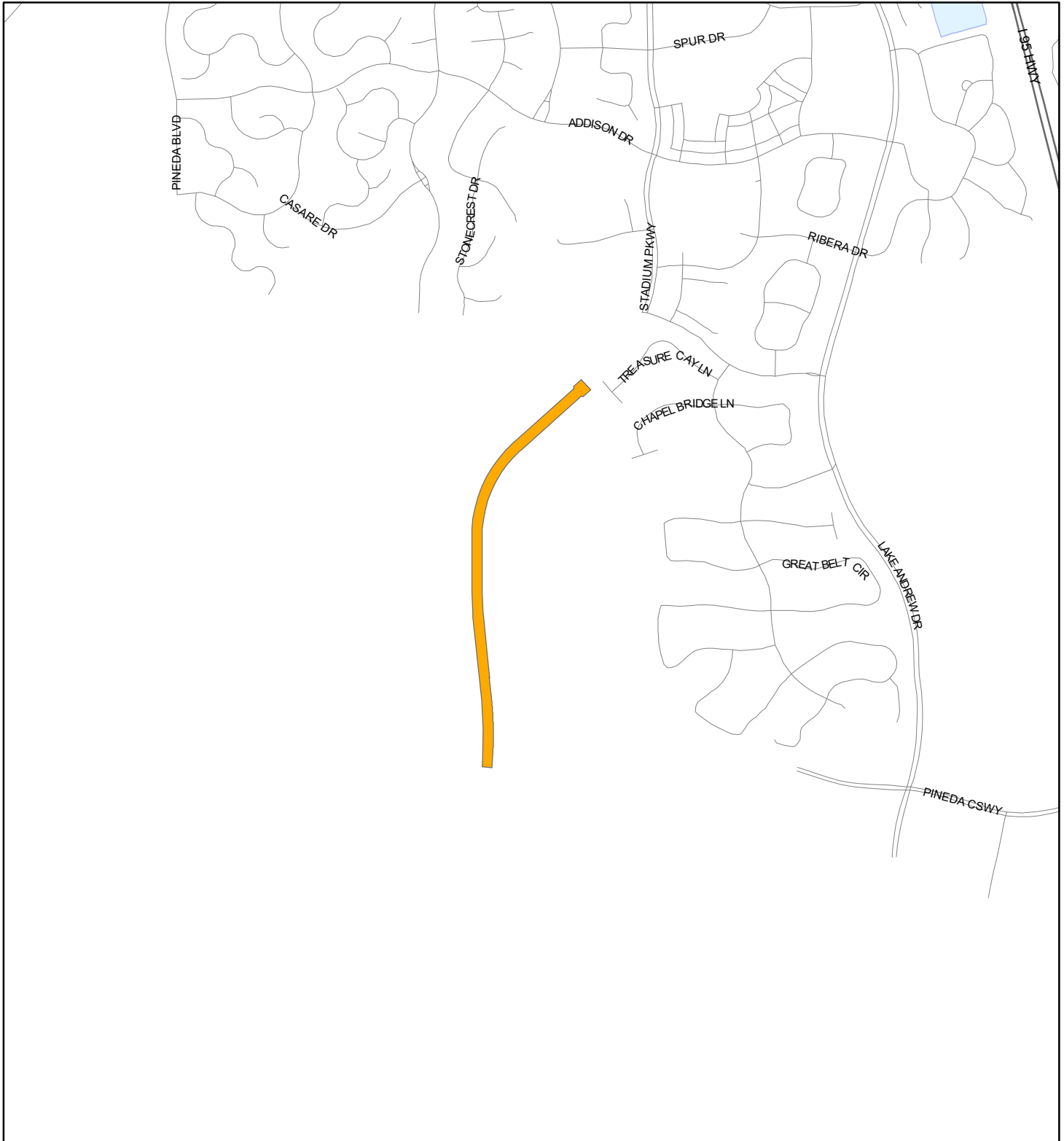
B.S.E. CONSULTANTS, INC.
CONSULTING - ENGINEERING - LAND SURVEYING
312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FL 32901
PHONE: (321) 326-4646 FAX: (321) 326-1159
CERTIFICATE OF BUSINESS AUTHORIZATION #608
CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION #2000005

DATE: 8/13/2021
DESIGN/DRAWN: HAK / EAK
DRAWING# 11561_301_001
PROJECT# 11561

LOCATION MAP

STADIUM PARKWAY - SEGMENT E

21FM00012



1:24,000 or 1 inch = 2,000 feet

 Subject Property

This map was compiled from recorded documents and does not reflect an actual survey. The Brevard County Board of County Commissioners does not assume responsibility for errors or omissions hereon.

Produced by BoCC - GIS Date: 9/15/2021



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.5.

10/12/2021

Subject:

Final Plat and Contract Approval, Re: Pineda Boulevard West Extension / Segment E
Developer: The Viera Company District 4

Fiscal Impact:

None

Dept/Office:

Planning and Development

Requested Action:

In accordance with Section 62-2841(i) and Section 62-2844, it is requested that the Board of County Commissioners grant final plat approval and authorize the Chair to sign the final plat and contract for Pineda Boulevard West Extension / Segment E.

Summary Explanation and Background:

There are three stages of review for subdivision plan approval: the pre-application conference, the preliminary plat/final engineering plan review, and the final plat review. The pre-application conference for the above project was held on March 4, 2021. The preliminary plat and final engineering plans, which is the second stage of approval, was approved on July 9, 2021. The third stage of review is the final plat approval for recordation. The applicant is posting a performance bond and contract for guarantee of the completion of the infrastructure improvements.

Staff has reviewed the final plat and contract for the Pineda Boulevard West Extension / Segment E, and has determined that it is in compliance with the applicable ordinances.

Pineda Boulevard West Extension / Segment E is located within the Viera DRI, at the intersection with Paragrass Avenue. The proposed plat contains new roadway on 3.39 acres.

This approval is subject to minor engineering changes as applicable. Board approval of this project does not relieve the developer from obtaining all other necessary jurisdictional permits.

Reference: 21FM00011, 21SD00001

Contact: Amanda Elmore, Assistant Director Ext. 58996

Clerk to the Board Instructions:

Please have the contract signed and return the original and a certified copy to Planning and Development.

**Subdivision Infrastructure
Contract**

THIS CONTRACT entered into this 19th day of October, 2021, by and between the Board of County Commissioners of Brevard County, Florida, hereinafter referred to as "COUNTY," and The Viera Company, hereinafter referred to as "PRINCIPAL."

WITNESSETH:

IN CONSIDERATION of the mutual covenants and promises herein contained, the parties hereto agree as follows:

1. The PRINCIPAL agrees to construct the improvements described below:

and all other improvements depicted in subdivision number 21SD00001/21FM00011. A copy of said plat to be recorded in the Plat Books of the Public Records of Brevard County.

2. Principal agrees to construct the improvements strictly in accordance with the plans and specifications on file in the Land Development Division (which construction is hereinafter referred to as the "Work"). Such plans and specifications (hereinafter referred to as the "Plans") are hereby incorporated into this Agreement by reference and made a part hereof. Principal warrants to County that the Work will conform to the requirements of the Plans and other requirements specified in the County's approval of the Work. Principal also warrants to County that the Work will be free from faults and defects. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered to be defective. All defective Work, whether or not in place, may be rejected, corrected or accepted as provided in this paragraph 2.

If within two (2) years after approval and acceptance of the improvements by County, any Work is found to be defective, Principal shall promptly, without cost to County, either correct such defective Work, or, if it has been rejected by County, remove it from the site and replace it with non-defective Work. If Principal does not promptly comply with the terms of such instructions, County may elect any of the remedies provided for in paragraph 6 herein below. Corrective Work shall be warranted to be free from defects for a period of six (6) months. Any defect in such Work shall be corrected again by Principal promptly upon notice of the defect from County. In the event the maintenance bond given by Principal in connection with County's acceptance of the improvements is extended, the two (2) year warranty period provided for herein shall be extended for a like period.

To the extent assignable, Principal assigns to County all of Principal's warranty rights under its construction contract with the contractor constructing the improvements (including all warranties provided by law of in equity with respect to such construction contract), which warranties may be asserted by County on behalf of Principal in the event Principal fails to perform its warranty obligations hereunder. Where warranties granted hereunder overlap, the more stringent requirement shall control."

3. The PRINCIPAL agrees to complete said construction on or before the 30th day of September, 2022

4. In order to guarantee performance of PRINCIPAL'S obligations herein contained, PRINCIPAL shall furnish cash, letter of credit, certificate of deposit or surety bond in a form approved by the COUNTY, in the amount of \$1,566,175.83 . If such bond is a cash bond or a certificate of deposit, said amount shall be deposited with the Board of County Commissioners within five (5) business days of the County's acceptance of this contract. Said bond shall be 125% of the estimated cost of construction, as determined by the Land Development Division. PRINCIPAL shall maintain such records and accounts, including property, personnel, financial records, as are deemed necessary by the COUNTY to ensure proper accounting for all funds expended under the agreement. Said records shall be made available upon request for audit purposes to Brevard County and its auditors.
5. The COUNTY agrees to accept said plat above described for recording in the public records of Brevard County, Florida and to accept the areas depicted thereon as dedicated for public use, including but not limited to streets and parks, at such time as said improvements are satisfactorily completed. Satisfactory completion in accordance with the plans and specifications shall be determined by written approval of the County Development Engineer or designated assistant.
6. In the event, PRINCIPAL fails to complete said improvements within the time prescribed, the COUNTY may elect to take all or any of the following actions:
 - A. Vacate all or part of such recorded plat where improvements have not Been completed in accordance with the plans and specifications,
 - B. Complete the improvements utilizing COUNTY employees and materials and request payment from the bond or the PRINCIPAL,
 - C. Request the surety on said performance bond to complete such improvements, or
 - D. Contract for completion of said improvements.
7. The PRINCIPAL and Surety on said performance bond shall be liable for all costs, expenses, and damages incurred by the COUNTY, including attorney's fees, in the event the PRINCIPAL defaults on this contract.
8. In the performance of this Agreement, the PRINCIPAL shall keep books, records, and accounts of all activities, related to the agreement, in compliance with generally accepted accounting procedures. Books, records and accounts related to the performance of this agreement shall be open to inspection during regular business hours by an authorized representative of the Office and shall be retained by the PRINCIPAL for a period of three years after termination of this agreement. All records, books and accounts related to the performance of this agreement shall be subject to the applicable provisions of the Florida Public Records Act, Chapter 119 of the Florida Statutes.
9. No reports, data, programs or other materials produced, in whole or in part for the benefit and use of the County, under this agreement shall be subject to copyright by PRINCIPAL in the United States or any other country.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals the day and year first above written.

ATTEST:

BOARD OF COUNTY COMMISSIONERS
OF BREVARD COUNTY, FLORIDA

Rachel M. Sadoff, Clerk

Rita Pritchett, Chair

As approved by the Board on: _____, 20____.

WITNESSES:

PRINCIPAL: The Viera Company

Karen P. Prosser

Todd J. Pokrywa
Todd J. Pokrywa, as President

Mary Ellen McKibben

9-14-21
DATE



State of: _____ Florida _____

County of: _____ Brevard _____

The foregoing instrument was acknowledged before me this 14th day of Sept 2021, by Todd J. Pokrywa, Pres who is personally known to me or who has produced as identification and who did (did not) take an oath.

My commission expires:

Mary Ellen McKibben
Notary Public

S E A L

Commission Number:



Mary Ellen McKibben
Notary Name printed, typed or stamped

SURETY PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, THE VIERA COMPANY, hereinafter referred to as "Owner" and, TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, hereinafter referred to as "Surety", are held and firmly bound unto the BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA, hereinafter referred to as "County", in the sum of \$1,566,175.83 for the payment of which we bind ourselves, our heirs, executors, successors and assigns, jointly and severally, firmly by these presents:

WHEREAS, Owner has entered into a contract with the County dated the 12th day of October, 2021, which contract is made a part hereof by reference.


NOW THEREFORE, the condition of this obligation is such that if Owner shall promptly and faithfully perform said contract and complete the work contemplated therein by September 30th, 2022 then this obligation shall be null and void, otherwise it shall remain in full force and effect.

If the Owner shall be declared in default of said contract by the County, the Surety shall have sixty (60) days from the date of said default within which to take whatever action it deems necessary in order to insure performance. If, at the expiration of sixty (60) days from the date of said default, no arrangements have been made by the Owner or surety satisfactory to the County for the completion of said contract, then the County shall have the right to complete said contract and the Owner and Surety jointly and severally, shall pay all costs of completing said contract to the County, including but not limited to engineering, legal and other costs, together with any damages, either direct or consequential, which the County may sustain on account of the Owner's default of said contract. After the expiration of the aforesaid grace period, the County shall have the additional right to contract for the completion of said contract upon which the Owner has defaulted and upon the County's acceptance of the lowest responsible bid for the completion of said contract, the Owner and Surety shall become immediately liable for the amount of said bid and in the event the County is required to commence legal proceedings for the collection thereof, interest shall accrue at the rate of six percent (6%) per annum beginning with the commencement of such legal proceedings. The County, in its discretion, may permit the Surety to complete said contract, in the event of Owner's default.

In the event that the County commences suit for the collection of any sums due hereunder, the obligors and each of them agree to pay all costs incurred by the County, including attorney's fees.

EXECUTED this 14th day of Sept., 2021.

OWNER: THE VIERA COMPANY


Todd J. Pokrywa, President

SURETY:


Christine Payne, Attorney-in-Fact





Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Christine Payne** of **ORLANDO Florida**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **17th** day of **January**, 2019.



State of Connecticut

City of Hartford ss.

By: _____

Robert L. Raney
Robert L. Raney, Senior Vice President

On this the **17th** day of **January**, 2019, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, 2021



Anna P. Nowik
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **13th** day of **September**, 2021



Kevin E. Hughes
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

PINEDA BOULEVARD WEST EXTENSION / SEGMENT "E"

SECTION 20, TOWNSHIP 26 SOUTH, RANGE 36 EAST

BREVARD COUNTY, FLORIDA

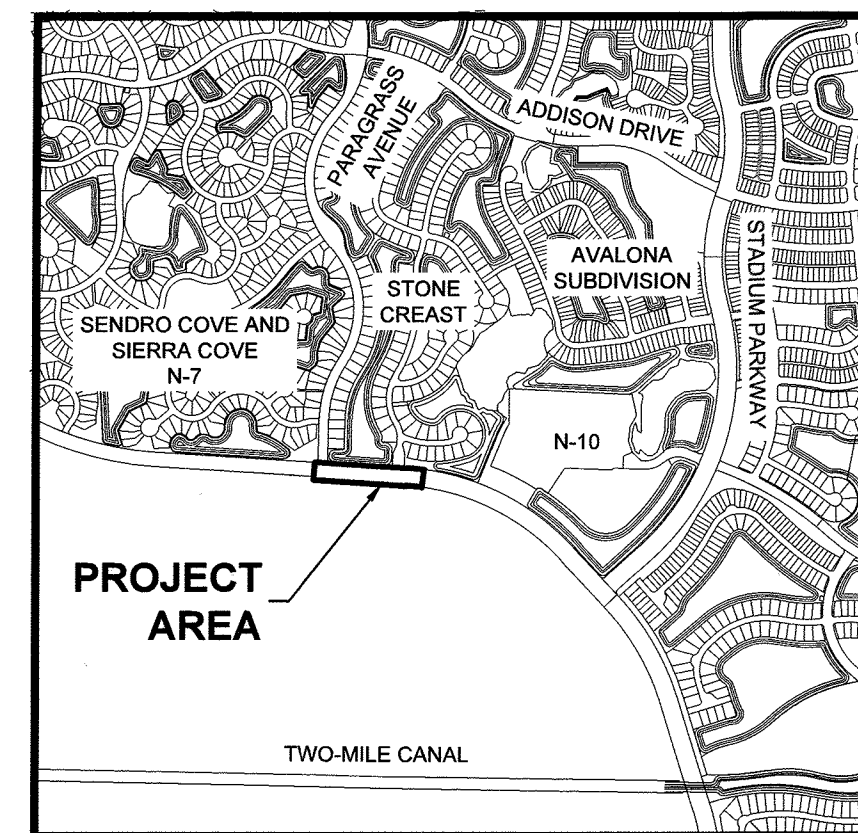
PLAT NOTES

1. BEARING REFERENCE: ASSUMED BEARING OF N86°18'12"W ON THE SOUTH LINE OF TRACT A2, STONECREST AT ADDISON VILLAGE - PHASE 3, PB 67, PG 36, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.
2. SURVEY MONUMENTATION WITHIN THE SUBDIVISION SHALL BE SET IN ACCORDANCE WITH FLORIDA STATUTES CHAPTER 177.091(8).
3. ALL LINES ARE RADIAL UNLESS OTHERWISE NOTED.

DESCRIPTION - PINEDA BOULEVARD WEST EXTENSION / SEGMENT "E"

A PARCEL OF LAND LYING IN SECTION 20, TOWNSHIP 26 SOUTH, RANGE 36 EAST, BREVARD COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF TRACT E, STONECREST AT ADDISON VILLAGE - PHASE 3, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 67, PAGE 36, PUBLIC RECORDS BREVARD COUNTY, FLORIDA, AND RUN WESTERLY ALONG THE ARC OF THE CURVED SOUTHERLY BOUNDARY LINE OF SAID STONECREST AT ADDISON VILLAGE - PHASE 3, (SAID CURVE BEING CURVED CONCAVE TO THE SOUTHWEST, AND HAVING A RADIUS OF 2075.00 FEET, A CENTRAL ANGLE OF 10°40'19", A CHORD BEARING OF N74°52'29"W AND A CHORD LENGTH OF 385.93 FEET), A DISTANCE OF 386.49 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED; THENCE CONTINUE ALONG THE ARC OF SAID CURVED SOUTHERLY BOUNDARY LINE OF STONECREST AT ADDISON VILLAGE - PHASE 3, (SAID CURVE BEING CURVED CONCAVE TO THE SOUTHWEST, AND HAVING A RADIUS OF 2075.00 FEET, A CENTRAL ANGLE OF 6°05'34", A CHORD BEARING OF N83°15'25"W AND A CHORD LENGTH OF 220.55 FEET), A DISTANCE OF 220.65 FEET, TO THE END OF SAID CURVE; THENCE N86°18'12"W, A DISTANCE OF 770.78 FEET; THENCE S03°14'48"W, A DISTANCE OF 150.00 FEET; THENCE S86°18'12"E, A DISTANCE OF 770.78 FEET TO THE BEGINNING OF A CURVE TO THE RIGHT; THENCE ALONG THE ARC OF SAID CURVE, (SAID CURVE BEING CURVED CONCAVE TO THE SOUTHWEST, AND HAVING A RADIUS OF 1925.00 FEET, A CENTRAL ANGLE OF 6°05'34", A CHORD BEARING OF S83°15'25"E AND A CHORD LENGTH OF 204.61 FEET), A DISTANCE OF 204.70 FEET TO AN INTERSECTION WITH A NON-TANGENT LINE TO THE NORTHEAST; THENCE N09°47'22"E ALONG SAID NON-TANGENT LINE A DISTANCE OF 150.00 FEET TO THE POINT OF BEGINNING, CONTAINING 3.39 ACRES, MORE OR LESS



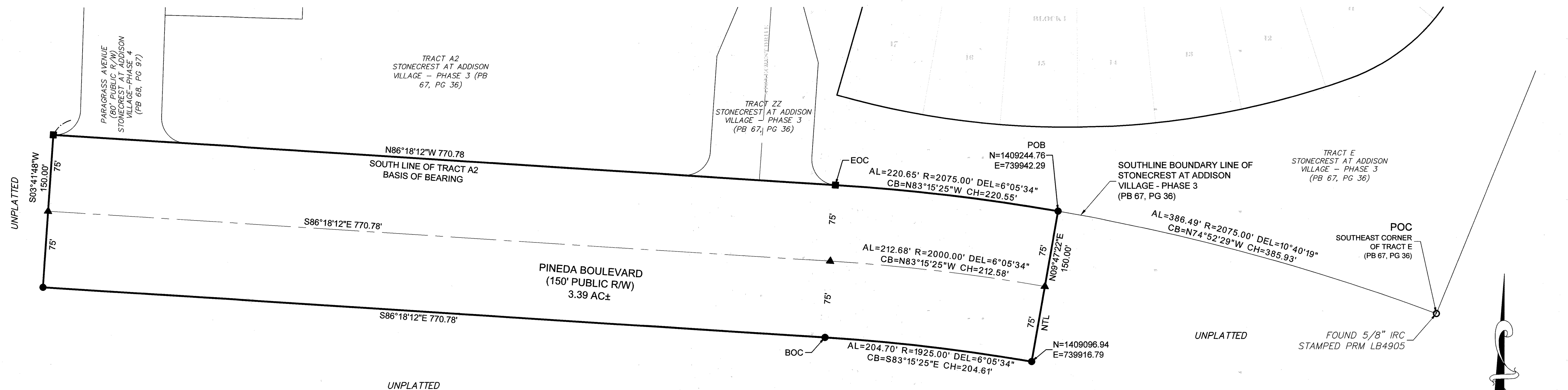
LOCATION MAP
NTS

ABBREVIATIONS

AL	ARC LENGTH
BOC	BEGINNING OF CURVE
CA	CENTRAL ANGLE
CB	CHORD BEARING
CH	CHORD LENGTH
CM	CONCRETE MONUMENT
COR	CORNER
CCB	CIRCUIT COURT BOOK
DEL	CENTRAL/DELTA ANGLE
DE	DRAINAGE EASEMENT (PRIVATE)
E	EAST
EL	ELEVATION
EOC	END OF CURVE
EX	EXISTING
FD	FOUND
FT	FOOT/FEET
N	NORTH
NTS	NOT TO SCALE
NTI	NON-TANGENT INTERSECTION

ABBREVIATIONS

NTL	NON-TANGENT LINE
(NR)	NOT RADIAL
OR/ORB	OFFICIAL RECORDS BOOK
PB	PLAT BOOK
PCC	POINT OF COMPOUND CURVATURE
PCP	PERMANENT CONTROL POINT
P.D.E.	PUBLIC DRAINAGE EASEMENT
PKD	PARKER-KALEN NAIL AND DISK
PG(S)	PAGE(S)
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
PRC	POINT OF REVERSE CURVATURE
P.S.E.	PUBLIC SIDEWALK EASEMENT
P.U.D.	PLANNED UNIT DEVELOPMENT
P.U.E.	PUBLIC UTILITY EASEMENT
R	RADIUS
R/W	RIGHT-OF-WAY
S	SOUTH
TOB	TOP OF BANK
(TYP)	TYPICAL
W	WEST



STATE PLANE COORDINATE NOTES:
THE COORDINATES SHOWN HEREON ARE BASED ON THE STATE PLANE COORDINATE SYSTEM FOR FLORIDA'S EAST ZONE NORTH AMERICAN DATUM OF 1983 AND READJUSTED IN 1999 (NAD83/99).

A GPS CONTROL SURVEY UTILIZING THREE ASHTECH PROMARK 2 GPS RECEIVERS WAS PERFORMED ON 12/04/04. THE NETWORK VECTOR DATA WAS ADJUSTED BY LEAST SQUARES METHOD UTILIZING ASHTECH SOLUTIONS VERSION 2.7. THE STATIONS SHOWN BELOW WERE HELD FIXED IN THE NETWORK ADJUSTMENT.

DESIGNATION	PID	NORTHING	N METERS	EASTING	E METERS	N. LATITUDE	W. LONGITUDE	COMBINED SCALE FACTOR	CONVERGENCE ANGLE
DURAN AZ MK 6	AK7519	1,426,329.224	434,746.017	738,933.411	225,227.354	28°15'26.19982"	080°44'34.43002"	0.99994903	(+)0°07' 18.2"
BREVARD GPS 1090	AK7524	1,422,840.468	433,682.642	740,680.093	225,759.744	28°14'51.61826"	080°44'14.98184"	0.99994936	(+)0°07' 27.3"
195 73A64	AK2846	1,416,452.318	431,735.530	746,854.0344	227,641.565	28°13'48.22765"	080°43'06.11244"	0.99995250	(+)0°07' 59.8"

THE COORDINATE VALUES SHOWN ON THE PLAT BOUNDARY AND THE SURROUNDING SECTION CORNERS WERE COMPUTED USING AUTODESK LAND DEVELOPMENT DESKTOP. A PROJECT SCALE FACTOR OF 0.99995030 WAS USED TO CONVERT GROUND DISTANCE TO GRID DISTANCE. THE DISTANCES SHOWN ON THIS PLAT ARE GROUND DISTANCES. THE PROJECT SCALE FACTOR CAN BE APPLIED TO CONVERT THE GROUND DISTANCE TO GRID DISTANCE. ALL OF THE VALUES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.

NOTICE: THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

SURVEY SYMBOL LEGEND

- PERMANENT REFERENCE MONUMENT (PRM): SET 4"x4" CONCRETE MONUMENT W/DISK, STAMPED PRM LB4905, UNLESS OTHERWISE NOTED.
- PERMANENT CONTROL POINT (PCP): SET MAG NAIL & DISK, STAMPED "PCP LB4505", UNLESS OTHERWISE NOTED
- SET 5/8" IRON ROD & CAP STAMPED "PRM LB4505", UNLESS OTHERWISE NOTED

- THIS PLAT PREPARED BY -



B.S.E. CONSULTANTS, INC.
CONSULTING - ENGINEERING - LAND SURVEYING
312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FL 32901
PHONE: (321) 725-8874 FAX: (321) 725-1154
CERTIFICATE OF BUSINESS AUTHORIZATION: 0005
CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004005

DATE: 08/25/2021
DESIGN/DRAWN: HAK / TBS
DRAWING# 11554_301_001
PROJECT# 11554

ROAD PLAT BOOK __, PAGE __

SHEET 1 OF 1

SECTION 20, TOWNSHIP 26 SOUTH, RANGE 36 EAST

DEDICATION

KNOW ALL MEN BY THESE PRESENTS, The Viera Company, being the owner in fee simple of the lands described in

PINEDA BOULEVARD WEST EXTENSION / SEGMENT "E"

Hereby dedicates said lands and plat for the uses and purposes therein expressed and hereby dedicates the right-of-way of Pineda Boulevard as shown hereon to Brevard County for the perpetual use of the public for roadway, drainage, sidewalk, utilities and associated purposes.

By:
President: Todd J. Pokrywa

Attest:
Secretary: Jay A. Decator, III

THE VIERA COMPANY
7380 MURRELL ROAD, SUITE 201
MELBOURNE, FLORIDA 32940

STATE OF FLORIDA COUNTY OF BREVARD

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization, this 25th day of August by Todd J. Pokrywa and Jay A. Decator, III, respectively President and Secretary of the above named corporation incorporated under the laws of State of Florida, on behalf of the company, who are ☒ personally known to me or ☐ have produced _____ as identification.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the above date.

NOTARY PUBLIC

Mary Ellen McKibben
Notary Public, State of Florida
My Comm. Expires July 25, 2023
Comm. No. GG344047

SEAL

CERTIFICATE OF SURVEYOR

KNOW ALL MEN BY THESE PRESENTS, That the undersigned, being a licensed professional surveyor and mapper, does hereby certify that on 01/29/2021 he completed the boundary survey of the lands shown on the foregoing plat, and that said plat was prepared under his direction and supervision and that said plat complies with all of the survey requirements of Chapter 177, part 1, Florida Statutes, and County Ordinance 62-2841 (c)(d) as amended, and that said lands are located in Brevard County, Florida.

Registration Number 5617
LESLIE E. HOWARD
B.S.E. Consultants, Inc.
312 South Harbor City Boulevard, Suite #4
Melbourne, Fla. 32901
Certificate of Authorization Number: LB-0004905

CERTIFICATE OF COUNTY SURVEYOR

I HEREBY CERTIFY, That I have reviewed the foregoing plat and find that it is in conformity with Chapter 177, part 1, Florida Statutes and County Ordinance 62-2841(c)(d) as amended.

Michael J. Sweeney, Professional Surveyor & Mapper No. 4870

CERTIFICATE OF ACCEPTANCE OF DEDICATION BY BOARD OF COUNTY COMMISSIONERS

THIS IS TO CERTIFY, That the Board of County Commissioners hereby accepts the right-of-way of Pineda Boulevard dedicated for the public use on this plat.

ATTEST:
Rita Pritchett, Chair
Clerk of the Board

CERTIFICATE OF APPROVAL BY BOARD OF COUNTY COMMISSIONERS

THIS IS TO CERTIFY, That on _____, the foregoing plat was approved by the Board of County Commissioners of Brevard County, Florida.

ATTEST:
Rita Pritchett, Chair
Clerk of the Board

CERTIFICATE OF CLERK

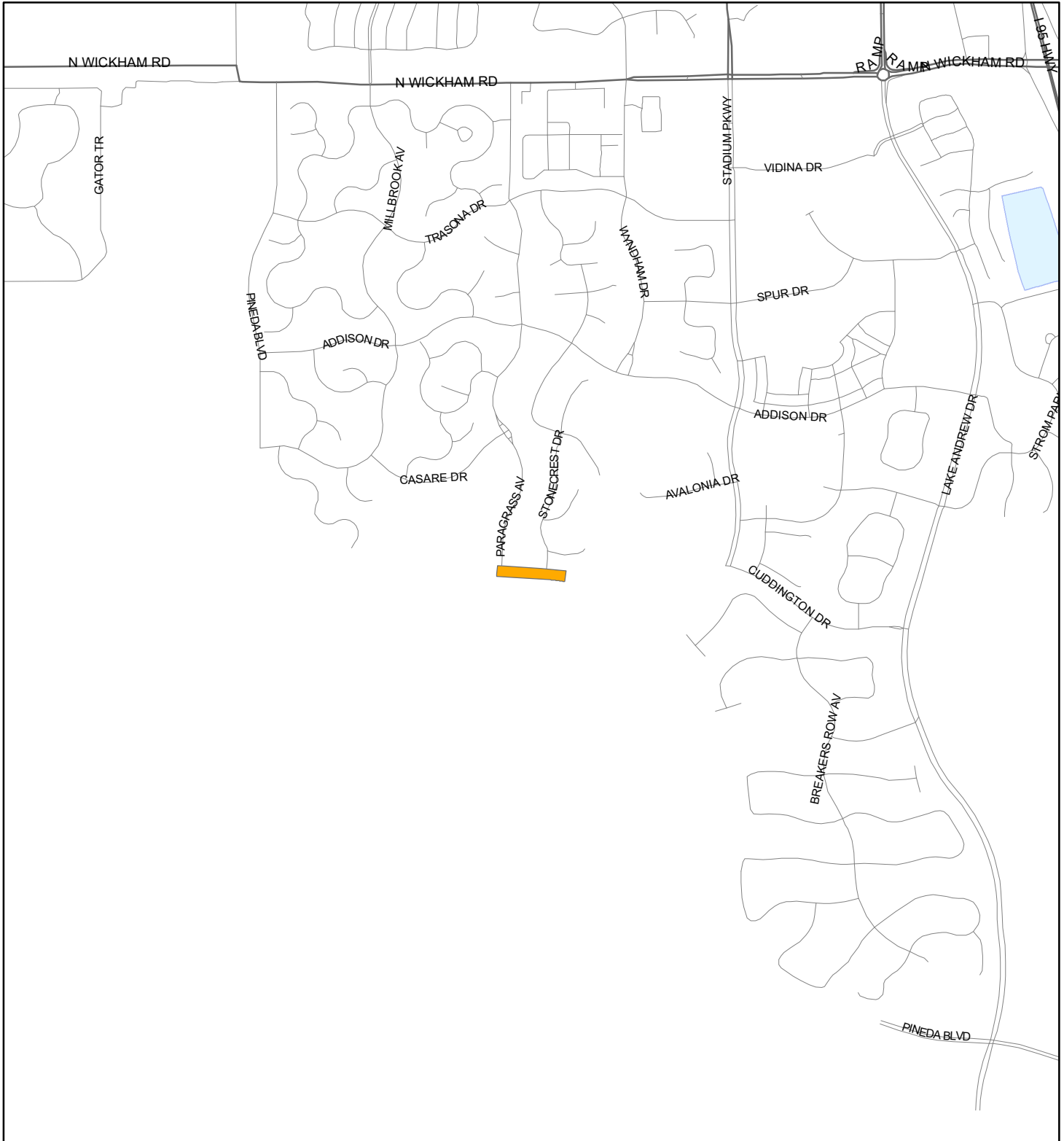
I HEREBY CERTIFY, That I have examined the foregoing plat and find that it complies in form with all the requirements of Chapter 177, part 1 Florida Statutes, and was filed for record on _____ at _____ File No. _____

ATTEST:
Clerk of the Circuit Court in and for Brevard County, Fla.

LOCATION MAP

PINEDA BOULEVARD WEST EXTENSION / SEGMENT "E"

21FM00011



1:24,000 or 1 inch = 2,000 feet

 Subject Property

This map was compiled from recorded documents and does not reflect an actual survey. The Brevard County Board of County Commissioners does not assume responsibility for errors or omissions hereon.

Produced by BoCC - GIS Date: 9/15/2021



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.6.

10/12/2021

Subject:

Approval, Re: Donation of Drainage Easement from Michael Lodge for the Cherokee Avenue Drainage Improvement Project - District 1.

Fiscal Impact:

None

Dept/Office:

Public Works Department / Land Acquisition

Requested Action:

It is requested that the Board of County Commissioners approve and accept the attached Drainage Easement.

Summary Explanation and Background:

The subject property is located in Section 11, Township 24 South, Range 35 East, at the corner of Bayfield Street and Cherokee Avenue in Cocoa. The Public Works Department is planning drainage improvements for Cherokee Avenue due to continued flooding from road water runoff. As part of the Cherokee Avenue Drainage Improvement Project an easement is necessary and is being donated by the owner Michael Lodge. The project will include the installation of drainage inlets and pipes along the south property line which will improve stormwater drainage.

The User Department approves this request.

This acquisition follows the policies and procedures as set forth in Administrative Order 37.

Clerk to the Board Instructions:

BOARD OF COUNTY COMMISSIONERS


AGENDA REVIEW SHEET

AGENDA: Donation of Drainage Easement from Michael Lodge for the Cherokee Avenue Drainage Improvement Project – District 1.

AGENCY: Public Works Department / Land Acquisition

AGENCY CONTACT: Lisa Kruse, Land Acquisition Specialist

CONTACT PHONE: 321-350-8353

	APPROVE	DISAPPROVE	DATE
LAND ACQUISITION Lucy Hamelers, Supervisor	 _____	_____	<u>9-7-2021</u>
COUNTY ATTORNEY Christine Schverak Assistant County Attorney	<u>cms</u> _____	_____	<u>09/07/2021</u>

Prepared by and return to: Lucy Hamelers
Public Works Department, Land Acquisition
2725 Judge Fran Jamieson Way, A204, Viera, Florida 32940
A portion of Interest in Tax Parcel ID: 24-35-11-01-1-1

DRAINAGE EASEMENT

THIS INDENTURE, made this 11th day of Dec., 2020, between Michael Scott Lodge, whose address is 4095 Cherokee Avenue, Cocoa, Florida 32926, as the first party, and Brevard County, a political subdivision of the State of Florida, whose address is 2725 Judge Fran Jamieson Way, Viera, Florida 32940, as the second party, for the use and benefit of Brevard County, Florida.

WITNESSETH that the first party, in consideration of One Dollar (\$1.00) and other valuable consideration paid, the receipt of which is acknowledged, grants unto the second party, its successors and assigns, a perpetual easement commencing on the above date for the purposes of operating, constructing, reconstructing, reconfiguring, and maintaining drainage facilities and other allied uses pertaining thereto, over, under, upon, above, and through the following lands:

The land affected by the granting of the easement is located in Section 11, Township 24 South, Range 35 East, Brevard County, Florida, and being more particularly described as follows:

SEE LEGAL DESCRIPTION ATTACHED HERETO AS "EXHIBIT A"

Including the right of ingress and egress onto the easement area as may be necessary for the full use and enjoyment by the second party of its easement. The first party shall have full use and enjoyment of the easement area but shall not make any improvements within the easement area which will conflict or interfere with the easement granted herein.

TO HAVE AND TO HOLD said easement unto Brevard County, a political subdivision of the State of Florida, and to its successors and/or assigns. The first party does covenant with the second party that it is lawfully seized and possessed of the lands above described and that it has a good and lawful right to convey it or any part thereof.

(Signatures and Notary on next page)

IN WITNESS WHEREOF, the first party has caused this easement to be executed,
the day and year first above written,

Signed, sealed and delivered in the presence of:


Witness

Debbie Cruz
Print Name



Michael Scott Lodge


Witness

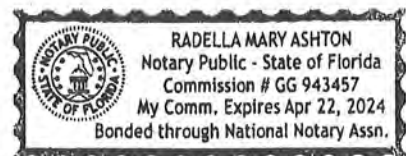
RADELLA ASHTON
Print Name

STATE OF FLORIDA
COUNTY OF BREVARD

The foregoing instrument was acknowledged before me by means of ☒ physical
presence or ☐ online notarization on this 11th day of December, 2020
2020, by Michael Scott Lodge. Is personally known or produced
FL DR LIC. as identification.


Notary Signature
SEAL

Board Meeting Date: 10/12/2021
Agenda Item # _____



LEGAL DESCRIPTION PARCEL 800

SHEET 1 OF 2

NOT VALID WITHOUT SHEET
2 OF 2

SECTION 11, TOWNSHIP 24 SOUTH, RANGE 35 EAST

PARCEL ID: 24-35-11-01-1-1

PURPOSE OF SKETCH: DRAINAGE EASEMENT

DESCRIPTION: PARCEL 800 (BY SURVEYOR)

THE SOUTH 15.00 FEET OF LANDS AS DESCRIBED IN OFFICIAL RECORDS BOOK 5605, PAGE 5143 OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA ALL LYING IN THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 24 SOUTH, RANGE 35 EAST BREVARD COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

COMMENCE AT THE NORTHEAST CORNER OF SAID SECTION 11; THENCE S. 01°13'42" W. ALONG THE EAST LINE OF NORTHEAST 1/4 OF SAID SECTION 11, A DISTANCE OF 360.58 FEET; THENCE N. 88°29'21" W., A DISTANCE OF 100.00 FEET TO THE WEST LINE OF A 100.00 FOOT WIDE CANAL AS SHOWN ON CANAVERAL GROVES SUBDIVISION AS RECORDED IN SURVEY BOOK 2, PAGE 82 OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA AND THE POINT-OF-BEGINNING, SAID POINT BEING THE SOUTHEAST CORNER OF SAID LANDS AS DESCRIBED IN OFFICIAL RECORDS BOOK 5605, PAGE 5143; THENCE N. 88°29'21" W., ALONG THE SOUTH LINE OF SAID LANDS, A DISTANCE OF 218.15 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF CHEROKEE AVENUE; THENCE N. 00°53'27" E., ALONG SAID EAST LINE, A DISTANCE OF 15.00 FEET; THENCE S. 88°29'21" E., A DISTANCE OF 218.24 FEET TO A POINT ON THE AFORESAID WEST LINE OF A 100.00 FOOT WIDE CANAL; THENCE S. 01°13'42" W., ALONG SAID WEST LINE, A DISTANCE OF 15.00 FEET TO THE POINT-OF-BEGINNING.

CONTAINING 3,273 SQ FT (0.08 ACRES) MORE OR LESS AND BEING SUBJECT TO ANY EASEMENTS AND/OR RIGHTS-OF-WAYS OF RECORD.

NOTES:

1. THIS IS NOT A BOUNDARY SURVEY.
2. BEARINGS SHOWN HEREON ARE ASSUMED AND BASED ON THE EAST LINE OF THE NORTHEAST 1/4 OF SECTION 11, BEING: S. 01°13'42" W. PURSUANT TO OFFICIAL RECORDS BOOK 5605, PAGE 5143 OF THE BREVARD COUNTY PUBLIC RECORDS.
3. THIS SKETCH AND DESCRIPTION WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTIES LISTED BELOW; COPIES ARE VALID ONLY WHEN BEARING THE SURVEYOR'S ORIGINAL SIGNATURE AND SEAL OR VERIFIED ELECTRONIC SIGNATURE AND SEAL.
4. PURSUANT TO AN "O & E REPORT" BY NEW REVELATIONS, INC. DATED 3/23/3030, FILE NO. 20-1167 THE FOLLOWING EASEMENTS OR EXCEPTIONS WERE REVIEWED:
 1. ORDINANCE NO. 32-2003 RECORDED IN ORB 5387, PAGE 3569-DOES NOT ENCUMBER PARCEL 800.



CERTIFICATE:

I hereby certify that the sketch and description shown hereon is true and correct to the best of my knowledge and belief, as performed under my direction and supervision and at the direction of the Brevard County survey department, and that it meets or exceeds the standards of practice as set forth by the Florida Board of Professional Land Surveyors in Chapter 5J-17.05 Florida Administrative Code, pursuant to Section 472.027, Florida statutes.

Joseph Barry Cabaniss, P.L.S.
FLORIDA SURVEYOR'S CERTIFICATE NO.: 4524
BUSSEN-MAYER ENGINEERING CERTIFICATE NO.: 3535

PREPARED FOR AND CERTIFIED TO:
BREVARD COUNTY
BOARD OF COUNTY COMMISSIONERS

PREPARED BY:



Bussen-Mayer Engineering Group

100 PARNELL STREET • MERRITT ISLAND, FLORIDA 32953
PH. NO.: (321) 453-0010 FAX NO.: (321) 454-8885



DRAWN BY: JC
DATE: 10/01/2020

CHECKED BY: JBC
SHEET 1 OF 2

PROJECT NO. 388020
REVISIONS -

SECTION 11
TOWNSHIP 24 SOUTH
RANGE 35 EAST

SKETCH OF DESCRIPTION PARCEL 800

SHEET 2 OF 2

NOT VALID WITHOUT
SHEET 1 OF 2

SECTION 11, TOWNSHIP 24 SOUTH, RANGE 35 EAST

PARCEL ID: 24-35-11-01-1-1

PURPOSE OF SKETCH: DRAINAGE
EASEMENT

BAYFIELD
STREET

(60.00' R/W) PER SURVEY
BOOK 2, PAGE 62 AND
ORB 2464, PG 2216



WEST R/W LINE

CHEROKEE AVENUE

(60.00' R/W) PER SURVEY
BOOK 2, PAGE 62 AND
ORB 2464, PG 2216

EAST R/W LINE

N 00°53'27" E

N 00°53'27" E

15.00'

CHEROKEE AVENUE

(60.00' R/W) PER SURVEY
BOOK 2, PAGE 62
AND ORB 2464, PG 2216

WEST R/W LINE

EAST R/W LINE
N 18°04'35" E

WEST LINE OF ORB
5605, PG 5143

PARCEL 800

DRAINAGE EASEMENT
3,273 SF± / 0.08 AC±

LEGEND

SB SURVEY BOOK
ORB OFFICIAL RECORDS BOOK
R/W RIGHT-OF-WAY
SF SQUARE FEET
AC ACRES
PG PAGE

AGUIAR, JACK & KATHLYN
PARCEL ID: 24-35-11-01-1-2
ORB 8336, PAGE 2971

SOUTH LINE OF ORB 5605 PG 5143

218.15'

N 88°29'21" W

218.24'

S 88°29'21" E

15.0'

LODGE, MICHAEL
PARCEL ID: 24-35-11-01-1-1
ORB 5605, PAGE 5143
(AKA LOT 1 BLOCK 1, CANAVERAL GROVES
SUBDIVISION - SB 2 PG 62)

POINT-OF-
BEGINNING

SE CORNER OF ORB
5605, PAGE 5143

EAST LINE OF ORB 5605
PG 5143 AND WEST LINE
OF 100' WIDE CANAL

NORTHEAST CORNER
ORB 5605 PG 5143

NORTH LINE OF N.E. 1/4 SECTION 11
AND NORTH LINE OF CANAVERAL
GROVES SUBDIVISION - SB 2 PG 62

S 88°24'03" E 117.40'

100.00'
CANAL

SB 2 PG 53
AND ORB 2464
PG 2213

S 01°13'42" E

15.00'

EAST LINE OF NE
1/4 SECTION 11

S 01°13'42" W
(BASIS OF BEARING)

348.73'

S 01°13'42" W

360.58'

POINT-OF-
COMMENCEMENT

NE CORNER SEC. 11

SECTION 11

SECTION 12

SECTION 1

PROJECT NO. 388020

PREPARED BY: BUSSEN-MAYER ENGINEERING GROUP

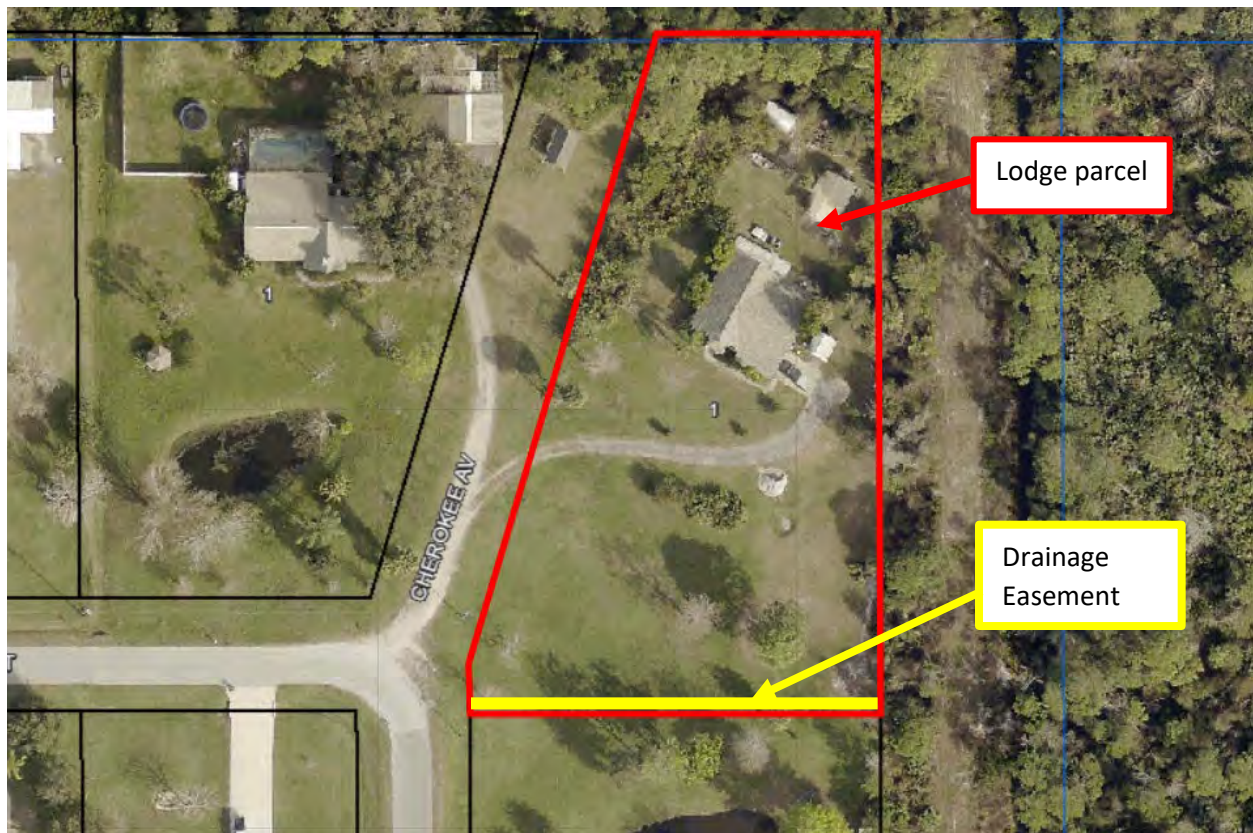
SECTION 11, TOWNSHIP 24, RANGE 35 EAST

LOCATION MAP

Section 30, Township 26 South, Range 36 East - District 4

PROPERTY LOCATION: Corner of Bayfield Street and Cherokee Avenue in Cocoa.

OWNERS NAME: Michael Lodge





Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.7.

10/12/2021

Subject:

Approval, Re: Contract for Sale and Purchase and Addendum with Girl Scouts of Citrus Council, Inc. for the Zone T Sykes Creek Septic to Sewer Conversion Project- District 2.

Fiscal Impact:

\$46,200.00 - Fund SOIRLP_537, 1260/271010/5610000/516935

Dept/Office:

Public Works Department / Land Acquisition / Natural Resources Management Department / Utility Services Department

Requested Action:

It is requested that the Board of County Commissioners approve and authorize the Chair to execute the attached Contract for Sale and Purchase and Addendum.

Summary Explanation and Background:

The subject property is located in Section 7, Township 25 South, Range 37 East, on the west side of Newfound Harbor Drive in Merritt Island.

Natural Resources Management Department is undertaking a project known as Zone T Sykes Creek Septic to Sewer Conversion, in conjunction with Utility Services Department, to help improve the Indian River Lagoon water quality by reducing excess nutrient loading to the lagoon. Newfound Harbor Drive is located within Zone T, a project approved by the Board of County Commissioners in the Save Our Indian River Lagoon Project Plan. This project will consist of constructing an Air-Vac Pump Station, vacuum and force main lines, lift station and sewer service connections.

The Girl Scout property located at 2250 Newfound Harbor Drive was identified as an ideal location for an Air-Vac Pump Station site. The parcel owner agreed to sell a portion of their property to assist with the project.

Fair market value was established by calculating the required square footage by the dollar per square footage from the appraisal report of Callaway & Price, Inc. dated November 23, 2020. The required square footage is 6,594 square feet with an adjusted amount of \$46,200.00. At the owner's request, an Addendum was incorporated into the contract modifying the inspection and evidence of title paragraphs wherein, at the Buyer's request for the Seller to remedy any defects discovered, the Seller may choose to reject the request and terminate the Contract. If this were to occur, the deposit money shall be retained by the Buyer. The attached Contract for Sale and Purchase, and Addendum represents acceptable terms with the Seller.

The User Department approves this request. The Save Our Indian River Lagoon Project Plan specifically identifies septic to sewer conversions as a key component to reducing pollutant loadings to the Indian River

Lagoon.

This acquisition follows the policies and procedures as set forth in Administrative Order 37.

Clerk to the Board Instructions:

Upon execution by the Chair, Public Works Department will contact the Clerk's office to make arrangements to pick up the original executed Contract for Sale and Purchase with Exhibit and original executed Addendum.

BOARD OF COUNTY COMMISSIONERS


AGENDA REVIEW SHEET

AGENDA: Contract for Sale and Purchase and Addendum with Girl Scouts of Citrus Council, Inc for the Zone T Newfound Harbor Drive Sewer Improvements Project – District 2.

AGENCY: Public Works Department / Land Acquisition

AGENCY CONTACT: Lucy Hamelers, Land Acquisition Supervisor

CONTACT PHONE: 321-350-8353 Ext. 58353

	APPROVE	DISAPPROVE	DATE
LAND ACQUISITION Lucy Hamelers, Supervisor		_____	<u>9.9.2021</u>
COUNTY ATTORNEY Christine Schverak Assistant County Attorney	<u>cms</u>	_____	<u>9/9/2021</u>

CONTRACT FOR SALE AND PURCHASE

Seller: Girl Scouts of Citrus Council, Inc.
341 North Mills Avenue, Orlando, Florida 32803

Buyer: Brevard County, a political subdivision of the State of Florida
2725 Judge Fran Jamieson Way, Viera, Florida 32940

Legal description of property being transferred: See attached Exhibit "A"

The transfer shall be made pursuant to the following terms and conditions and the Standards for Real Estate Transactions, on the reverse side of this contract.

Purchase price: \$46,200.00 (Forty Six Thousand Two Hundred Dollars and no/100-----)

Deposit: \$1,000.00 to be transferred to an escrow account established and held by the Brevard County Clerk, such deposit to be applied to the purchase price.

Time for acceptance of offer; effective date; facsimile: If this offer is not executed by and delivered to all parties OR FACT OF EXECUTION communicated in writing between the parties on or before **October 12, 2021**, the deposit(s) will, at Buyer's option, be returned and this offer withdrawn. The date of Contract ("Effective Date") will be the date when the last one of the Buyer and Seller has signed this offer. A facsimile copy of this Contract and any signatures hereon shall be considered for all purposes as originals.

Title evidence: At least 15 days before closing date, ☐ Seller shall, at Seller's expense, deliver to Buyer or Buyer's attorney or ☒ Buyer shall at Buyer's expense obtain ☒ a title search and/or ☐ title insurance commitment (with legible copies of instruments listed as exceptions attached thereto) and, after closing, an owner's policy of title insurance.

Closing Date: This transaction shall be closed and the deed and other closing papers delivered on or before **December 30, 2021**, unless modified by other provisions of this Contract.

Warranties: The following warranties are made and shall survive closing.

- a. SELLER warrants that there are no parties in occupancy other than Seller.
- b. SELLER warrants there is no hazardous waste or other environmental contamination located in or upon the property being acquired by the County. Seller shall indemnify and defend Buyer from any and all claims or expenses resulting from hazardous waste or environmental contamination located in or upon the property provided such waste or contamination was not placed on the property by the Buyer.
- c. SELLER warrants that he/she has no knowledge of any fact or restriction which would prevent use of the property for AirVac Lift Station Site purposes.
- d. SELLER hereby represents and warrants to COUNTY that SELLER has not engaged or dealt with any agent, broker or finder, in regard to this Agreement or to the sale and purchase of the property contemplated hereby. SELLER hereby acknowledges and covenants that SELLER is solely responsible for any and all commissions due arising out of or connected within the sale or transfer of the property. SELLER hereby indemnifies COUNTY and agrees to hold COUNTY free and harmless from and against any and all liability, loss, costs, damage and expense, including but not limited to attorney's fees and costs of litigation both prior to and on appeal, which COUNTY shall ever suffer or incur because of any claim by any agent, broker or finder engaged by SELLER, including broker, whether or not meritorious, for any fee, commission or other compensation with respect to this Agreement or to the sale and purchase of the property contemplated hereby.

Inspections: The BUYER shall have 60 days after the Brevard County Board of County Commissioners executes the contract within which to complete physical inspection and evaluation of the property for environmental, hazardous materials, developability, access, drainage and subsurface conditions. In the event a Phase I environmental assessment meeting ASTM standards is prepared and environmental issues objectionable to BUYER are detected, SELLER shall 1) take all steps necessary to remove BUYER'S objections prior to the expiration of the 60 day inspection period, if possible or 2) if acceptable to BUYER, SELLER shall allow an additional 90 days to provide adequate time to conduct a Phase II assessment meeting ASTM standards. If the Phase I assessment reveals contamination this agreement may be terminated by BUYER and BUYER may decline to allow SELLER to clean up or to proceed to a Phase II assessment. Likewise, if the Phase II assessment reveals contamination objectionable to BUYER, BUYER may terminate this agreement. Alternatively, BUYER may grant SELLER an additional 90 days to clean up the site after the Phase II assessment, but BUYER is not required to do so. SELLER shall allow the BUYER or its agents reasonable right of entry upon the property for inspection purposes. Before the expiration of the initial 60-day inspection period or the additional 90-day extension for a Phase II assessment, BUYER shall have the right to terminate this agreement with a full refund of any deposits, should the results of the inspection indicate the property cannot be used for its intended purpose or that mitigation of conditions would be required. If clean up after a Phase II assessment is attempted but unacceptable to BUYER, the BUYER shall receive a full refund of its deposit.

Condemnation: This property ☐ is ☒ is not being acquired under threat of condemnation. If so, this agreement includes and settles all issues of full compensation for the property being acquired, including fees and costs.

SELLER shall comply with §196.295, Fla. Stat.

SELLER hereby agrees to provide the necessary information and execute a beneficial interest and disclosure affidavit as required by §286.23, Fla. Stat.

Special Clauses: ☒ See attached addendum

☐ NOT APPLICABLE

BOARD OF COUNTY COMMISSIONERS
BREVARD COUNTY, FLORIDA

GIRL SCOUTS OF CITRUS COUNCIL, INC.

Rita Pritchett, Chair

Date 10/12/2021

MARYANN BARRY, LEO

Date 9/01/2021

Agenda Item # _____
As approved by the Board 10/12/2021

STANDARDS FOR REAL ESTATE TRANSACTIONS

A. EVIDENCE OF TITLE: A title insurance commitment issued by a Florida licensed title insurer agreeing to issue to Buyer, upon recording of the deed to Buyer, an owner's policy of title insurance in the amount of the purchase price insuring Buyer's title to the Real Property, subject only to liens, encumbrances, exceptions or qualifications set forth in this Contract and those which shall be discharged by Seller at or before closing. Seller shall convey marketable title subject only to liens, encumbrances, exceptions or qualifications specified in this Contract. Marketable title shall be determined according to applicable Title Standards adopted by authority of The Florida Bar and in accordance with law. Buyer shall have 5 days from date of receiving evidence of title to examine it. If title is found defective, Buyer shall within 3 days thereafter, notify Seller in writing specifying defect(s). If the defect(s) render title unmarketable, Seller will have 30 days from receipt of notice to remove the defects, failing which Buyer shall, within five (5) days after expiration of the thirty (30) day period, deliver written notice to Seller either: (1) extending the time for a reasonable period not to exceed 120 days within which Seller shall use diligent effort to remove the defects; or (2) requesting a refund of deposit(s) paid which shall immediately be returned to Buyer. If Buyer fails to so notify Seller, Buyer shall be deemed to have accepted the title as it then is, Seller shall, if title is found unmarketable, use diligent effort to correct defect(s) in the title within the time provided therefor. If Seller is unable to remove the defects within the times allowed therefor, Buyer shall either waive the defects or receive a refund of deposit(s), thereby releasing Buyer and Seller from all further obligations under this Contract

B. SURVEY: Buyer, at Buyer's expense, within time allowed to deliver evidence of title and to examine same may have the Real Property surveyed and certified by a registered Florida surveyor. If survey shows encroachment on Real Property or that improvements located on Real Property encroach on setback lines, easements, lands of others or violate any restrictions, Contract covenants or applicable governmental regulation, the same shall constitute a title defect.

C. INGRESS AND EGRESS: Seller warrants and represents that there is ingress and egress to the Real Property sufficient for its intended use as described in the Warranties section of the agreement.

D. LIENS: Seller shall furnish to Buyer at time of closing an affidavit attesting to the absence, unless otherwise provided for herein, of any financing statement, claims of lien or potential lienors known to Seller and further attesting that there have been no improvements or repairs to the Property for 90 days immediately preceding date of closing. If Property has been improved or repaired within that time Seller shall deliver releases or waivers of construction liens executed by all general contractors, subcontractors, suppliers and materialmen in addition to Seller's lien affidavit setting forth the names of all such general contractors, subcontractors, suppliers and materialmen and further affirming that all charges for improvements or repairs which could serve as a basis for a construction lien or a claim for damages have been paid or will be paid at closing of this Contract.

E. TIME PERIOD: Time is of the essence in this Contract.

F. DOCUMENTS FOR CLOSING: Seller shall furnish the deed, bill of sale, construction lien affidavit, owner's possession affidavit, assignments of leases, tenant and mortgagee estoppel letters and corrective instruments. Buyer shall furnish closing statement.

G. EXPENSES: Documentary stamps on the deed, if required, and recording of corrective instruments shall be paid by Seller. Buyer will pay for the cost of recording the deed.

H. PRORATIONS; CREDITS: Taxes, assessments, rent, interest, insurance and other expenses and revenue of Property shall be prorated through day before closing. Buyer shall have the option of taking over any existing policies of insurance, if assumable, in which event premiums shall be prorated. Cash at closing shall be increased or decreased as may be required by prorations. Prorations will be made through day prior to occupancy if occupancy occurs before closing. Advance rent and security deposits will be credited to Buyer and escrow deposits held by mortgagee will be credited to Seller. Taxes shall be prorated based on the current year's tax with due allowance made for maximum allowable discount, homestead and other exemptions. If closing occurs at a date when the current year's millage is not fixed and current year's assessment is available, taxes will be prorated based upon such assessment and the prior year's millage. If current year's assessment is not available, then taxes will be prorated on the prior

year's tax. If there are completed improvements on the Real Property by January 1st of year of closing, which improvements were not in existence on January 1st of the prior year, then taxes shall be prorated based upon the prior year's millage and at an equitable assessment to be agreed upon between the parties, failing which, request will be made to the County Property Appraiser for an informal assessment taking into consideration available exemptions. Any tax proration based on an estimate shall, at request of either Buyer or Seller, be subsequently readjusted upon receipt of tax bill on condition that a statement to that effect is in the closing statement.

I. SPECIAL ASSESSMENT LIENS: Certified, confirmed and ratified special assessment liens as of date of closing (not as of Effective Date) are to be paid by Seller. Pending liens as of date of closing shall be assumed by Buyer. If the improvement has been substantially completed as of Effective Date, any pending lien shall be considered certified, confirmed or ratified and Seller shall, at closing, be charged an amount equal to the last estimate of assessment for the improvement by the public body.

J. PROCEEDS OF SALE; CLOSING PROCEDURE: The deed shall be recorded upon clearance of funds. If abstract of title has been furnished, evidence of title shall be continued at Buyer's expense to show title in Buyer, without any encumbrances or change which would render Seller's title unmarketable from the date of the last evidence. Proceeds of the sale shall be held in escrow by Seller's attorney or by another mutually acceptable escrow agent for a period of not more than 5 days after closing date. If Seller's title is rendered unmarketable, through no fault of Buyer, Buyer shall, within the 5-day period, notify Seller in writing of the defect and Seller shall have 30 days from date of receipt of such notification to cure the defect. If Seller fails to timely cure the defect, all deposit(s) and closing funds shall, upon written demand by Buyer and within 5 days after demand, be returned to Buyer and, simultaneously with such repayment, Buyer shall return the Personal Property, vacate the Real Property and re-convey the Property to Seller by special warranty deed and bill of sale. If Buyer fails to make timely demand for refund, Buyer shall take title as is, waiving all rights against Seller as to any intervening defect except as may be available to Buyer by virtue of warranties contained in the deed or bill of sale. The escrow and closing procedure required by this Standard shall be waived if title agent insures adverse matters pursuant to Section 627.7841, F.S. (1993), as amended.

K. FAILURE OF PERFORMANCE: If Buyer fails to perform this Contract within the time specified, including payment of all deposit(s), the deposit(s) paid by Buyer and deposit(s) agreed to be paid, may be retained by or for the account of Seller as agreed upon liquidated damages, consideration for the execution of this Contract and in full settlement of any claims; whereupon, Buyer and Seller shall be relieved of all obligations under this Contract; or Seller, at Seller's option, may proceed in equity to enforce Seller's rights under this Contract. If for any reason other than failure of Seller to make Seller's title marketable after diligent effort, Seller fails, neglects or refuses to perform this Contract, the Buyer may seek specific performance or elect to receive the return of Buyer's deposit(s) without thereby waiving any action for damages resulting from Seller's breach. In the event of any litigation arising out of this contract, each party shall bear its own attorney's fees and costs. The parties hereby agree to waive trial by jury.

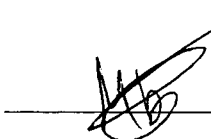
L. CONVEYANCE: Seller shall convey title to the Real Property by statutory warranty, trustee's, personal representative's or guardian's deed, as appropriate to the status of Seller. Personal Property shall, at request of Buyer, be transferred by an absolute bill of sale with warranty of title, subject only to such matters as may be otherwise provided for herein.

M. OTHER AGREEMENTS: No prior or present agreements or representations shall be binding upon Buyer or Seller unless included in this Contract. No modification to or change in this Contract shall be valid or binding upon the parties unless in writing and executed by the party or parties intended to be bound by it.

N. WARRANTY: Seller warrants that there are no facts known to Seller materially affecting the value of the Property which are not readily observable by Buyer or which have not been disclosed.

Reviewed for legal form and content:

CMS (Assistant) County Attorney

 Seller's Initial

Addendum

This addendum is made this 12 day of October, 2021 and amends the CONTRACT FOR SALE AND PURCHASE between Girl Scouts of Citrus Council, Inc., as Seller, and Brevard County, Florida as Buyer, 2725 Judge Fran Jamieson Way, Viera, Florida 32940:

For value received, the parties hereto agree as follows:

1. The Inspection and Evidence of Title paragraphs are modified as follows: Buyer will disclose any title defects or environmental conditions discovered through a title search or property inspection, that Buyer desires Seller to remedy. If Buyer requests Seller to remedy said defect or environmental condition, Seller will have option of whether to remedy the matter or to terminate the contract; if Seller elects to terminate the contract, Buyer shall retain the security deposit."
2. All other terms and conditions of the Contract for Sale and Purchase between the parties shall remain in full force and effect.

BUYER:

BOARD OF COUNTY COMMISSIONERS
BREVARD COUNTY, FLORIDA

Date: _____
Rita Pritchett, Chair

SELLER:

GIRL SCOUTS OF CITRUS FLORIDA,
INC.

BY: _____
MARYANN BARRY, CEO

As Approved by the Board on October 12, 2021
Agenda Item # _____

Reviewed for legal form and content:

Choverak, (Assistant) County Attorney

LEGAL DESCRIPTION

PARCEL # 100

PARENT PARCEL ID#: 25-37-07-CY-*--3
PURPOSE: FEE SIMPLE

EXHIBIT "A"

SHEET 1 OF 2

NOT VALID WITHOUT SHEET 2 OF 2

THIS IS NOT A SURVEY

LEGAL DESCRIPTION: PARCEL #100 FEE SIMPLE (PREPARED BY SURVEYOR)

A parcel of land being a portion of Lot 4 of the Plat of Horti as recorded in Plat Book 1, Page 33 and also being a portion of lands as described in Official Records book 1691 Page 724 all of the Public Records of Brevard County, Florida and lying in Section 7, Township 25 S, Range 37 E, Brevard County, Florida and being more particularly described as follows;

Commence at the SE corner of Lot 3 of the Plat of Harbor Oaks as recorded in Plat Book 31 Page 82 of said Public Records said point also being on the North line of the aforesaid Lot 4 of the Plat of Horti as recorded in Plat Book 1 Page 33 of the Public Records; thence N. 89°58'41" E., along the north line of said Lot 4, a distance of 173.04 feet to a point on the west right-of-way line of Newfound Harbor Drive (a 33.00 foot right-of-way) as shown on said Plat of Horti; thence S. 09°23'26" E., along said west right-of-way line, a distance of 45.61 feet to the southeast corner of lands as described in Official Records Book 3002 Page 3799 of said Public records and the Point-of-Beginning of this description; thence continue S. 09°23'26" E., along said west right-of-way line, a distance of 60.81 feet to a point lying 105.00 feet south of the aforesaid north line of Lot 4 of the Plat of Horti; thence S. 89°58'41" W. parallel with, and 105.00 feet south, of said north line, a distance of 109.90 feet; thence N. 09°23'26" W. a distance of 60.81 feet to a point lying 45.00 feet south of the said north line of Lot 4 of the Plat of Horti; thence N. 89°58'41" E. parallel with and 45.00 feet south, of said north line of Lot 4 Plat of Horti, a distance of 109.90 feet to the Point-of-Beginning.

Containing 0.15 acres (6,594 sq/ft)+/-

CERTIFICATE:

I HEREBY CERTIFY THAT THE SKETCH AND DESCRIPTION SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AS PERFORMED UNDER MY DIRECTION AND SUPERVISION, AND THAT IT MEETS OR EXCEEDS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 17 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 402.027, FLORIDA STATUTES.

PREPARED FOR AND CERTIFIED TO:
BREVARD COUNTY
BOARD OF COUNTY COMMISSIONERS

JOSEPH BARRY CABANISS, P.E.
FLORIDA SURVEYOR'S CERTIFICATE NO. 4524
BUSSEN-MAYER ENGINEERING, P.A.
NOT VALID UNLESS SIGNED AND SEALED

DATE
4524
3535

PREPARED BY:



Bussen-Mayer Engineering Group

100 PARNELL STREET • MERRITT ISLAND, FLORIDA 32953
PH. NO.: (321) 453-0010 FAX NO.: (321) 454-6885



DRAWN BY: JCC	CHECKED BY: JBC	PROJECT NO. 401503			SECTION 7 TOWNSHIP 25 SOUTH RANGE 37 EAST
		REVISIONS	DATE	DESCRIPTION	
DATE: 4/21/21	DRAWING: SD01		5/11/21	COUNTY COMMENTS	

\\DWG\SURV\401503 Newfound Harbor Dr Sewer - 1253-K3/E-SU/- 18'40'1303-SQU 1.dwg, 5/11/2021 11:30:17 AM, DWG 10.PDF, PCS

SKETCH OF DESCRIPTION

PARCEL # 100

PARENT PARCEL ID#: 25-37-07-CY-*--3

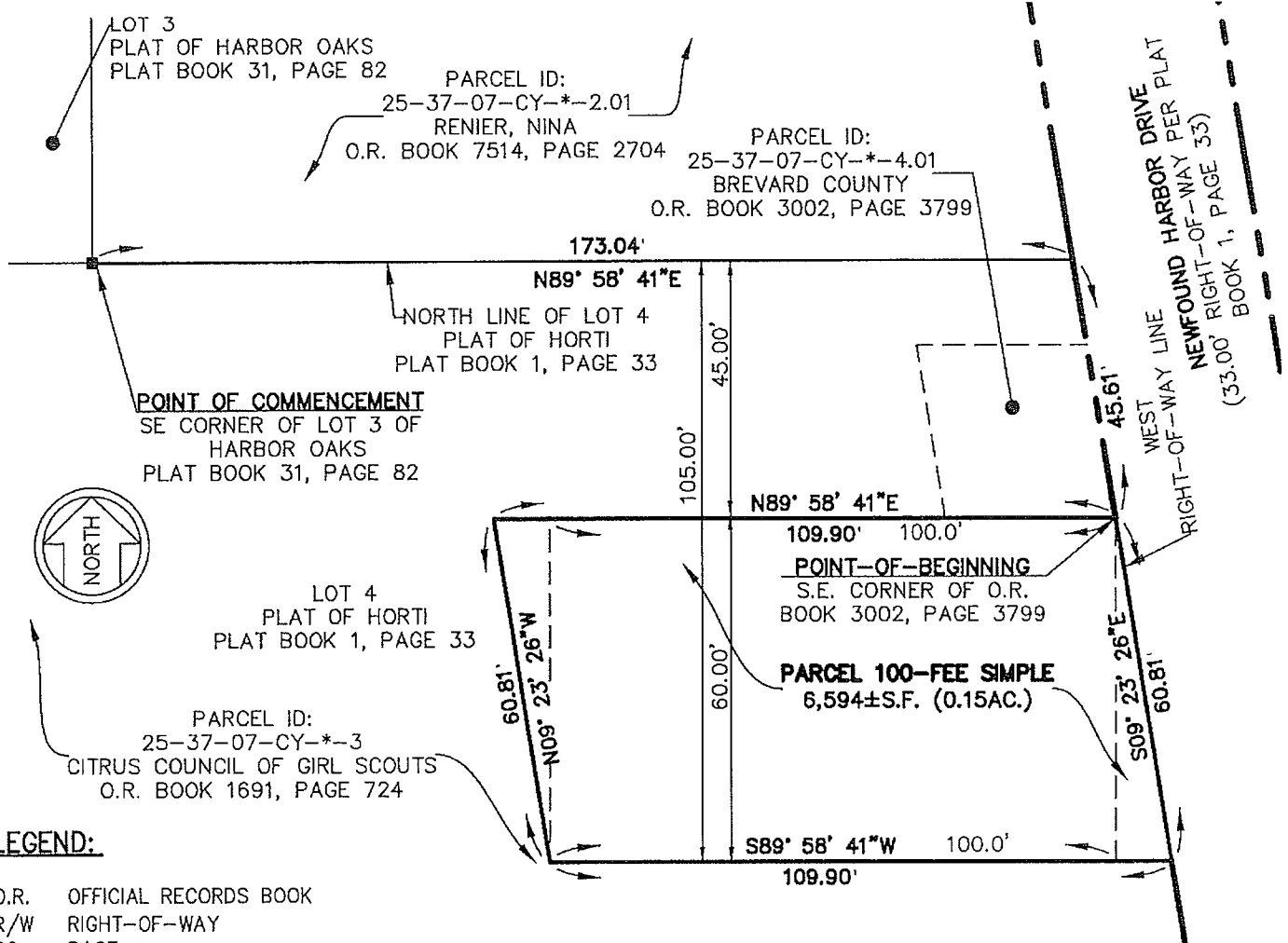
PURPOSE: FEE SIMPLE

EXHIBIT "A"

SHEET 2 OF 2

NOT VALID WITHOUT SHEET 1 OF 2

THIS IS NOT A SURVEY



LEGEND:

O.R. OFFICIAL RECORDS BOOK
R/W RIGHT-OF-WAY
PG PAGE
SF SQUARE FEET
AC ACRES

SURVEYORS NOTES:

1. THIS IS NOT A BOUNDARY SURVEY.
2. BEARINGS SHOWN HEREON ARE PER STATE PLANE EAST (NAD 83) COORDINATE SYSTEM AND ARE BASED ON THE WEST RIGHT-OF-WAY OF NEW FOUND HARBOR BEING S 09°23'26" E.
3. PURSUANT TO O&E REPORT BY NEW REVELATIONS, INC., DATED 3/18/2021, FILE NO. 21-1168:
 - 1) EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 2899, PAGE 2743-DOES NOT ENCUMBER SUBJECT PARCEL.
 - 2) EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 7926, PAGE 2933-DOES NOT ENCUMBER SUBJECT PARCEL.
4. THIS SKETCH AND DESCRIPTION WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTIES LISTED BELOW; COPIES ARE VALID ONLY WHEN BEARING THE SURVEYOR'S ORIGINAL SIGNATURE AND SEAL OR VERIFIED ELECTRONIC SIGNATURE AND SEAL.
5. CERTIFIED TO:

BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS

PREPARED BY:



Bussen-Mayer Engineering Group

100 PARNELL STREET • MERRITT ISLAND, FLORIDA 32953
PH. NO.: (321) 453-0010 FAX NO.: (321) 454-6885

SCALE:

1"=30'

PROJECT NO.:

401503

SECTION 7

TOWNSHIP 25 SOUTH

RANGE 37 EAST

PROPERTY FACT SHEET

PROJECT: Zone T, Newfound Harbor Sewer Improvment

OWNER: Girl Scouts of Citrus Council, Inc.

PARCEL LOCATION: 2250 Newfound Harbor Drive, Merritt Island

PARCEL SIZE: 22.51 acres

PARCEL ACQUISITION: 0.15 acres or 6,594 square feet

ZONING/LANDUSE: AU, Agricultural Residential

IMPROVEMENTS: One single family residence

TOPOGRAPHY: Level, at grade

FLOOD ZONE: X and AE

TAX PARCEL ID#: 25-37-07-CY-*-3

ASSESSED VALUE: \$5,420,200.00 (2020 Assessment - Property Appraiser Records)

PUBLIC UTILITIES: Utilities available

PROPERTY TRANSACTION: Date: December 1, 1976
(Clerk of the Court Records) Sale amount: \$450,000.00

CALLAWAY APPRAISAL DATE: November 23, 2020

Appraisal Amount: \$24,700.00 for 3,528 square feet (or \$7.00/SF)

CALCULATED TO MEET DESIGN REQUIREMENTS: April 21, 2021

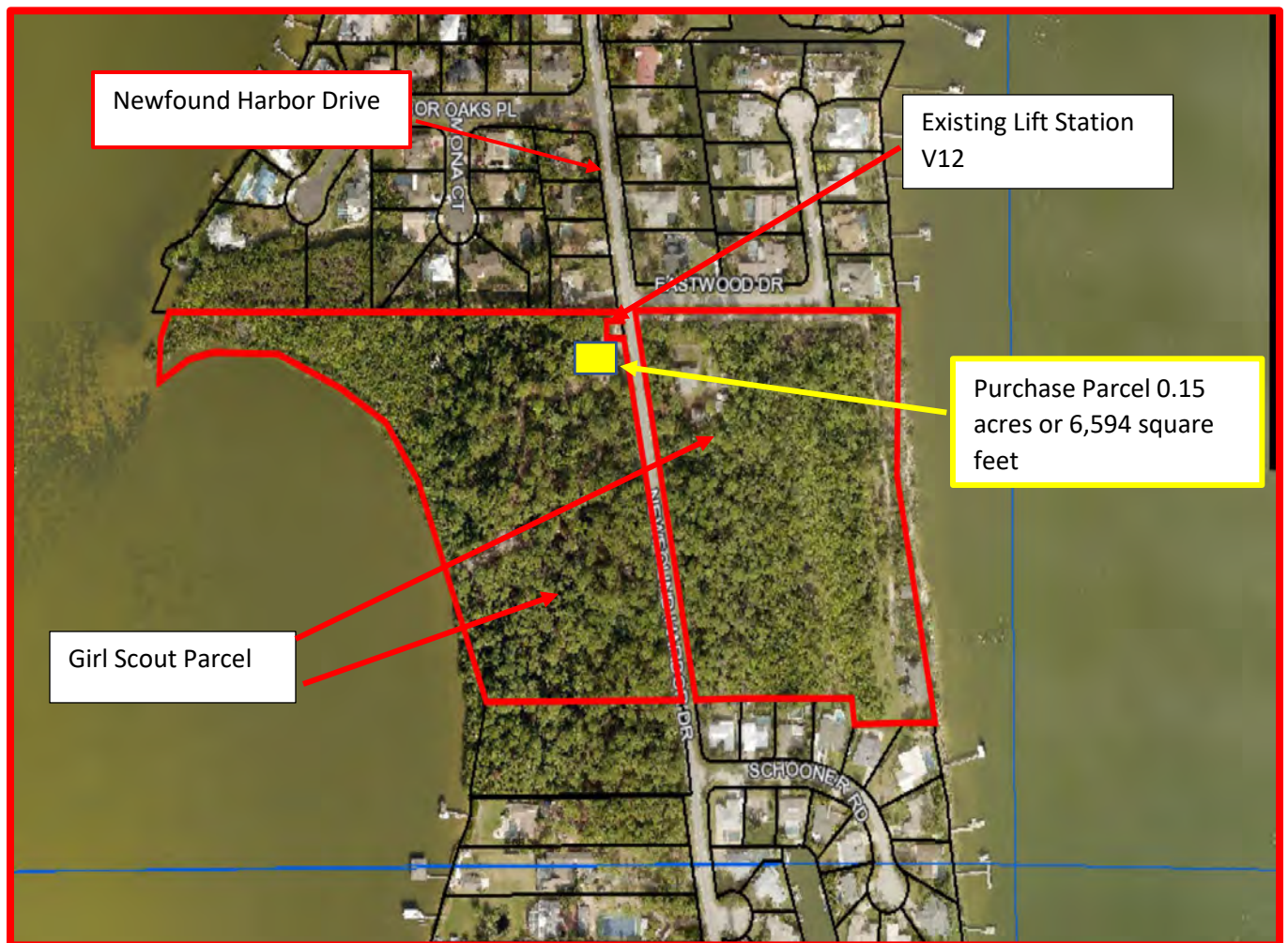
Adjusted Amount: \$46,200.00 for 6,594 square feet

LOCATION MAP

Section 7, Township 25 South, Range 37 East - District: 2

PROPERTY LOCATION: The west side of Newfound Harbor in Merritt Island

OWNERS NAME(S): Girl Scouts of Citrus Council, Inc.





Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.8.

10/12/2021

Subject:

Approval, Re: Donation of Sanitary Sewer Easement from Casa Loma Estates Co-op, Inc., for the Lift Station T11 Driveway Improvement Plan- District 4.

Fiscal Impact:

None

Dept/Office:

Public Works Department / Land Acquisition / Utility Services Department

Requested Action:

It is requested that the Board of County Commissioners approve and accept the attached Sanitary Sewer Easement.

Summary Explanation and Background:

The subject property is located in Section 18, Township 26 South, Range 37 East, on the north side of Kristy Circle in Melbourne.

Utility Services Department is planning to construct a concrete driveway to the wet well for Lift Station T11. The driveway will enhance the approach to the lift station while providing safe access for staff. The owner has agreed to donate the easement needed to accommodate the driveway improvement.

The User Department approves this request.

This acquisition follows the policies and procedures as set forth in Administrative Order 37.

Clerk to the Board Instructions:

BOARD OF COUNTY COMMISSIONERS


AGENDA REVIEW SHEET

AGENDA: Donation of Sanitary Sewer Easement from Casa Loma Estates Co-op, Inc. for the Lift Station T11 Improvement Project – District 4.

AGENCY: Public Works Department / Land Acquisition

AGENCY CONTACT: Andrew Malach, Land Acquisition Specialist

CONTACT PHONE: 321-350-8351

	APPROVE	DISAPPROVE	DATE
LAND ACQUISITION Lucy Hamelers, Supervisor	 _____	_____	<u>9.3.2021</u>
COUNTY ATTORNEY Christine Schverak Assistant County Attorney	<u>cms</u> _____	_____	<u>9-10-2021</u>

Prepared by and return to: Lucy Hamelers
Public Works Department, Land Acquisition
2725 Judge Fran Jamieson Way, A204, Viera, Florida 32940
A portion of Interest in Tax Parcel ID: 26-37-18-00-502.x-A

SANITARY SEWER EASEMENT

THIS INDENTURE, made this 11th day of AUGUST, 2021, between Casa Loma Estates Co-op, Inc., a Florida not for profit corporation, whose address is 6560 North Highway 1, Melbourne, Florida 32940, as the first party, and Brevard County, a political subdivision of the State of Florida, whose address is 2725 Judge Fran Jamieson Way, Viera, Florida 32940, as the second party, for the use and benefit of Brevard County, Florida.

WITNESSETH that the first party, in consideration of One Dollar (\$1.00) and other valuable consideration paid, the receipt of which is acknowledged, grants unto the second party, its successors and assigns, a perpetual easement commencing on the above date for the purposes of operating, constructing, reconstructing, reconfiguring, and maintaining a sanitary sewer line and /or lift station and its associated facilities and other allied uses pertaining thereto, over, under, upon, above, and through the following lands:

The land affected by the granting of the easement is located in Section 18 Township 26 South, Range 37 East, Brevard County, Florida, and being more particularly described as follows:

SEE LEGAL DESCRIPTION ATTACHED HERETO AS "EXHIBIT A"

Including the right of ingress and egress onto the easement area as may be necessary for the full use and enjoyment by the second party of its easement. The first party shall have full use and enjoyment of the easement area but shall not make any improvements within the easement area which will conflict or interfere with the easement granted herein.

TO HAVE AND TO HOLD said easement unto Brevard County, a political subdivision of the State of Florida, and to its successors and/or assigns. The first party does covenant with the second party that it is lawfully seized and possessed of the lands above described and that it has a good and lawful right to convey it or any part thereof.

(Signatures and Notary on next page)

IN WITNESS WHEREOF, the first party has caused this easement to be executed, the day and year first above written,

Signed, sealed and delivered in the presence of:

Dr. H. P. Poirer

witness

STEVEN H. PARRISH

```
print name
```

Harry E. Raton
witness

witness

LARRY E. NATION

```
print name
```

Casa Loma Estates Co-op, Inc.,
a Florida not for profit corporation

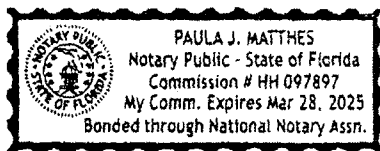
BY: Robert Keutgen

ROBERT KREUTZER PRESIDENT

```
print name and title
```

STATE OF FLORIDA
COUNTY OF BREVARD

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization on this 11th day of AUGUST, 2021, by ROBERT KREUTZER as PRESIDENT for Casa Loma Estates Co-op, Inc., a Florida not for profit corporation. Is personally known or produced as identification.



Paula Mathes

Notary Signature

SEAL

LEGAL DESCRIPTION

PARCEL #800

PARENT PARCEL ID#: 26-37-18-00-502.X-A

PURPOSE: SANITARY SEWER EASEMENT

EXHIBIT "A"

SHEET 1 OF 2

NOT VALID WITHOUT SHEET 2 OF 2

THIS IS NOT A SURVEY

LEGAL DESCRIPTION: PARCEL #800 SANITARY SEWER EASEMENT (PREPARED BY SURVEYOR)

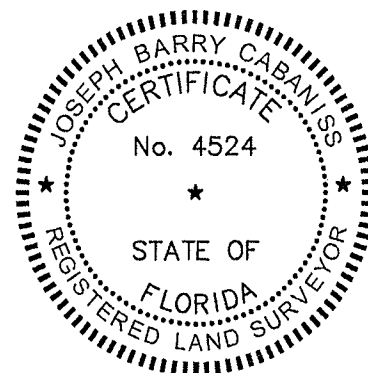
A PARCEL OF LAND BEING A PORTION OF LANDS AS DESCRIBED IN OFFICIAL RECORDS BOOK 5493 PAGE 8482 OF THE BREVARD COUNTY, FLORIDA PUBLIC RECORDS AND LYING IN THE SOUTHWEST QUARTER OF SECTION 18, TOWNSHIP 26 SOUTH, RANGE 37 EAST, BREVARD COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF SAID SOUTHWEST ¼ SECTION 18; THENCE N. 90°00'00" E. A DISTANCE OF 486.00 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF THE FLORIDA EAST COAST RAILWAY; THENCE N. 19°34'30" W., ALONG SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 1404.52 FEET TO A POINT ON THE NORTH LINE OF GOVERNMENT LOT 3 OF SAID SECTION 18; THENCE N. 88°28'58" E ALONG THE NORTH LINE OF SAID GOVERNMENT LOT 3 A DISTANCE OF 800.07 FEET TO A POINT ON THE WEST LINE OF TRACT A AS DESCRIBED IN OFFICIAL RECORDS BOOK 6866 PAGE 242 OF SAID PUBLIC RECORDS; THENCE S. 24°28'30" E. ALONG SAID WEST LINE A DISTANCE OF 41.71 FEET TO THE POINT-OF-BEGINNING; THENCE CONTINUE S. 24°28'30" E. ALONG SAID WEST LINE A DISTANCE OF 20.75 FEET; THENCE S. 81°00'00" W. A DISTANCE OF 23.60 FEET; THENCE S. 09°00'00" E. A DISTANCE OF 26.00 FEET; THENCE N. 65°58'34" W. A DISTANCE OF 35.78 FEET; THENCE N. 09°00'00" W. A DISTANCE OF 26.50 FEET; THENCE N. 81°00'00" E. A DISTANCE OF 48.06 FEET TO THE POINT-OF-BEGINNING.

CONTAINING 1504 SQUARE FEET (0.04 ACRES±) MORE OR LESS.

SURVEYORS NOTES:

1. THIS IS NOT A BOUNDARY SURVEY.
2. BEARINGS SHOWN HEREON ARE ASSUMED AND BASED ON THE NORTH LINE OF GOVERNMENT LOT 3 BEING N88°28'58"E PER OFFICIAL RECORDS BOOK 5493, PAGE 8482 OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.
3. PURSUANT TO O&E REPORT BY NEW REVELATIONS, INC., DATED 12/7/2020, FILE NO. 20-1644:
 1. EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 5834, PAGE 8004-DOES NOT ENCUMBER THE SUBJECT PARCEL.
 2. AMENDED AND RESTATED EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 7149, PAGE 1310-DOES NOT ENCUMBER THE SUBJECT PARCEL.
 3. CORRECTIVE SECOND AMENDED EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 8000, PAGE 230-DOES NOT ENCUMBER THE SUBJECT PARCEL.
4. THIS SKETCH AND DESCRIPTION WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTIES LISTED BELOW; COPIES ARE VALID ONLY WHEN BEARING THE SURVEYOR'S ORIGINAL SIGNATURE AND SEAL OR VERIFIED ELECTRONIC SIGNATURE AND SEAL.
5. CERTIFIED TO:
BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS



CERTIFICATE:

I HEREBY CERTIFY THAT THE SKETCH AND DESCRIPTION SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AS PERFORMED AT THE DIRECTION OF THE BREVARD COUNTY SURVEY DEPARTMENT, AND THAT IT MEETS OR EXCEEDS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 5J-17.05 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.


JOSEPH BARRY CABANISS, P.L.S.
FLORIDA SURVEYOR'S CERTIFICATE NO.:
BUSSEN-MAYER ENGINEERING CERTIFICATE NO.:
NOT VALID UNLESS SIGNED AND SEALED

DATE
4524
3535

7/13/21

PREPARED FOR AND CERTIFIED TO:
**BREVARD COUNTY
BOARD OF COUNTY COMMISSIONERS**

PREPARED BY:



Bussen-Mayer Engineering Group

100 PARNELL STREET • MERRITT ISLAND, FLORIDA 32953
PH. NO.: (321) 453-0010 FAX NO.: (321) 454-6885



DRAWN BY: JCC

CHECKED BY: JBC

PROJECT NO. 407515

REVISIONS

DATE

DESCRIPTION

DATE: 5/6/2021

DRAWING: 407515-sk01.dwg

7/13/21

REVISE TO 800 ESMT

SECTION 18
TOWNSHIP 26 SOUTH
RANGE 37 EAST

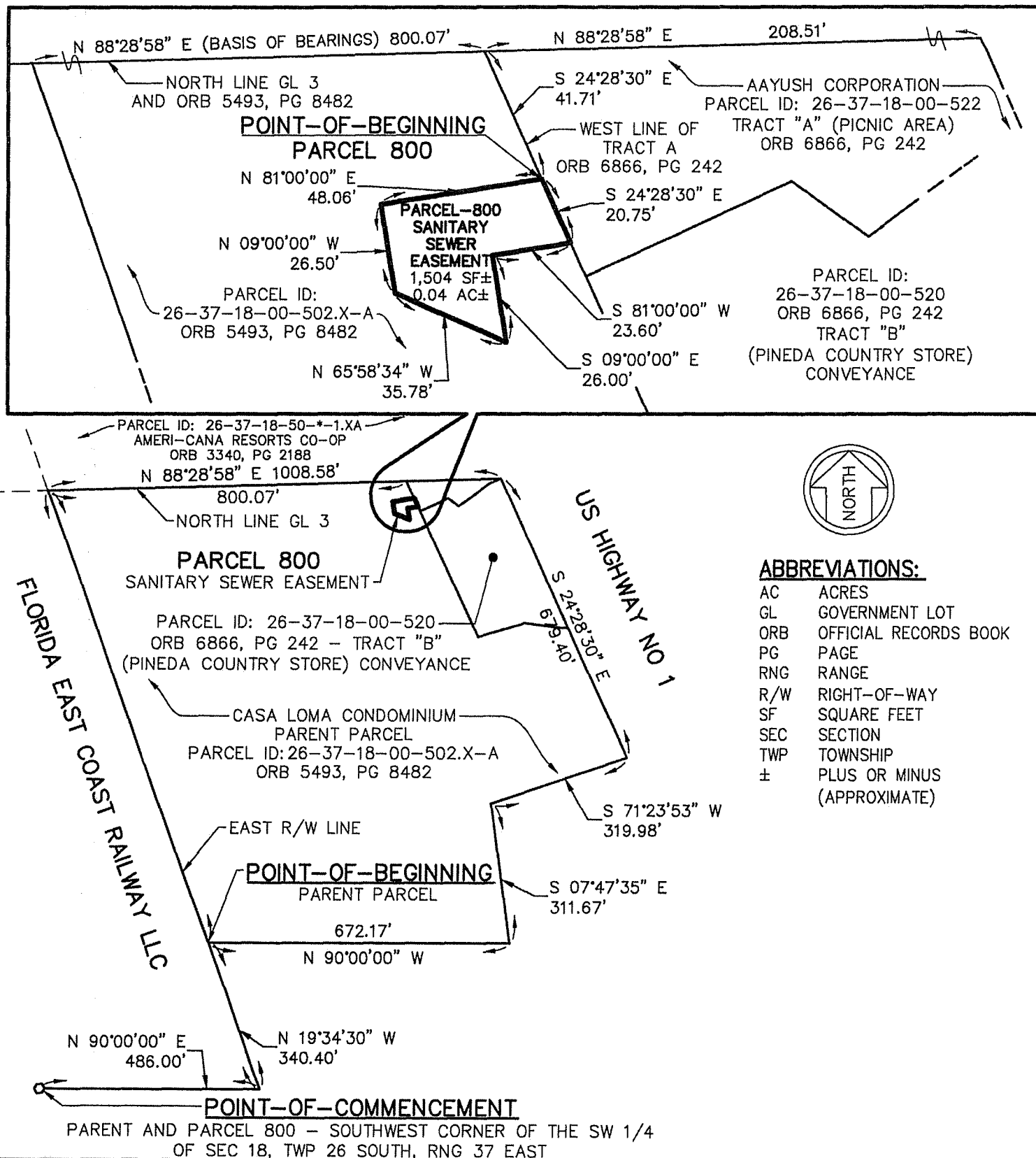
PARCEL #800

PURPOSE: SANITARY SEWER EASEMENT

SHEET 2 OF 2

NOT VALID WITHOUT SHEET 1 OF 2

THIS IS NOT A SURVEY



PREPARED BY:



Bussen-Mayer Engineering Group

100 PARNELL STREET • MERRITT ISLAND, FLORIDA 32953
PH. NO.: (321) 453-0010 FAX NO.: (321) 454-6885



SCALE:

1"=40' UPPER GRAPHIC
1"=300' LOWER GRAPHIC

PROJECT NO.: 407515

SECTION 18
TOWNSHIP 26 SOUTH
RANGE 37 EAST

LOCATION MAP

Section 18, Township 26 South, Range 37 East - District: 4

PROPERTY LOCATION: North of Kristy Circle in Melbourne

OWNERS NAME: Casa Loma Estates Co-op, Inc.





Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.9.

10/12/2021

Subject:

Approval, Re: Notice of Non-Acceptance of Deed of Easement for Sidewalk Purposes Conveyed to Brevard County from Coop Construction, Inc. - District 1

Fiscal Impact:

None

Dept/Office:

Public Works Department / Land Acquisition

Requested Action:

It is requested that the Board of County Commissioners approve and authorize the Chair to execute the attached Notice of Non-Acceptance.

Summary Explanation and Background:

The subject property is located in Section 13, Township 23 South, Range 35 East, on the east side of Curtis Boulevard north of Fay Boulevard, in Cocoa.

On September 15, 2021 Land Acquisition was provided a copy of a Deed of Easement for Sidewalk Purposes from Coop Construction, Inc. to Brevard County, recorded in Official Records Book 9257, page 1493, Public Records of Brevard County, Florida. Said sidewalk easement was not submitted to the Brevard County Board of County Commissioners for approval and acceptance. Since this Deed of Easement for Sidewalk Purposes has been recorded without the County's knowledge, a Notice of Non-Acceptance must be recorded in the Public Records to disclaim ownership and rebut any presumption of a valid conveyance of this easement.

The User Department approves this request.

This acquisition follows the policies and procedures as set forth in Administrative Order 37.

Clerk to the Board Instructions:

Upon execution by the Chair, Public Works Department will contact the Clerk's office to make arrangements to pick up the original executed Notice of Non-Acceptance.

BOARD OF COUNTY COMMISSIONERS

AGENDA REVIEW SHEET

AGENDA: Non-Acceptance of Sidewalk Easement Conveyed to Brevard County from
Coop Construction, Inc.– District 1.

AGENCY: Public Works Department / Land Acquisition

AGENCY CONTACT: Lisa Kruse, Land Acquisition Specialist

CONTACT PHONE: 321-690-6847, Ext. 58353

	APPROVE	DISAPPROVE	DATE
LAND ACQUISITION Lucy Hamelers, Supervisor	 _____	_____	<u>9-22-2021</u>
COUNTY ATTORNEY Christine Schverak Assistant County Attorney	<u>cms</u> _____	_____	<u>09-23-2021</u>

NOTICE OF NON-ACCEPTANCE

Brevard County, Florida, a political subdivision of the State of Florida hereby provides notice that the property described in the Deed of Easement for Sidewalk Purposes recorded at Official Records Book 9257 Page 1493, Public Records of Brevard County, Florida was not delivered to or accepted by the Board of County Commissioners Brevard County, Florida at any time. The Board of County Commissioners, Brevard County, Florida rejects any and all interests attempted to be transferred by Official Records Book 9257 Page 1493, Public Records of Brevard County, Florida.

ATTEST:

**BOARD OF COUNTY COMMISSIONERS
OF BREVARD COUNTY, FLORIDA**

Rachel Sadoff, Clerk to the Court

By: _____
Rita Pritchett, Chair

Date: October 12, 2021

As approved by the Board on 10/12/2021
Agenda Item # _____

Instrument prepared by: Michael Coop for Coop Construction

Sidewalk Easement

Brief description for index:

Property: 3780 Curtis Blvd, Cocoa, FL 32927

Parcel ID: 23-35-13-RT-B-3

Mail after recording to:

Coop Construction
P. O. Box 2199
Titusville, FL 32781

Lot 3 Block B Less the South 115.00 feet Thereof, as shown on the Plat of Port St. John Center as recorded in Plat Book 45, Pages 59 and 60, of the Public Records of Brevard County Florida

DEED OF EASEMENT FOR SIDEWALK PURPOSES

This Deed of Easement for Sidewalk Purposes (this "Sidewalk Easement") is made and executed this 13th day of September, 2021, by Michael Coop, President for Coop Construction, Inc., a Florida Corporation (the "Grantor") to Brevard County, Florida municipal corporation, with a mailing address of P. O. Box 2199, Titusville, FL 32781 (the "County").

Grantor warrants that it is the owner of the property (the "Property") described in the plat recorded in Official Records Book 0045, Page 0059, Brevard County Public Records (the "Plat"), that it is vested of the premises in fee simple, and that the premises are free from encumbrances except as expressly stated within this instrument.

For valuable consideration, the receipt of which is hereby acknowledged by Grantor, which may include permitting and approvals of the County for development activity on the Property, and in further consideration of the mutual covenants and terms, conditions and restrictions hereinafter set forth, the Grantor hereby gives, grants, bargains and conveys unto the County, its successors and assigns, in perpetuity, the right, privilege and easement, now and hereafter, to construct, improve, reconstruct, replace, inspect, repair, maintain, and use for public sidewalk purposes, including related and customary uses of sidewalk right-of-way such as curb and gutter, bike path, sanitary sewer, storm drainage, water supply, cable television, fiber-optic, electric power and telephone transmission purposes in, upon and across the Property, the area subject to this easement being more particularly identified and described in Exhibit A, attached hereto and incorporated herein by reference.

THE PROPERTY HEREIN DESCRIBED AND CONVEYED IS: (choose one)

[] Located on a parcel that includes the Grantor's primary residence, but the Grantor's primary residence is not a property interest being conveyed; or

[XX] Does not include a primary residence.

Subordination

[Any existing deeds of trust, mortgages, or liens encumbering the Property, other than property tax liens for the current tax year or governmental improvement assessment liens, must be subordinated to this Sidewalk Easement. Such encumbrances must be listed and the Sidewalk Easement must be executed by the beneficiary and trustee, mortgagee, or lien holder to evidence such subordination.]

GRANTOR REPRESENTS THAT NO SUPERIOR DEEDS OF TRUST, MORTGAGES, OR LIENS (OTHER THAN PROPERTY TAX LIENS FOR THE CURRENT TAX YEAR OR GOVERNMENTAL IMPROVEMENT ASSESSMENT LIENS) ENCUMBER OR AFFECT THE PROPERTY AT THE TIME OF THE EXECUTION AND RECORDING OF THIS SIDEWALK EASEMENT, OR THAT IF ANY OF THE FOREGOING EXIST, THEY SHALL BE SUBORDINATE TO THIS SIDEWALK EASEMENT THROUGH THE SUBORDINATION LANGUAGE HEREIN.

Grantor acknowledges that the City is acting in reliance on Grantor's authority to enter into this Sidewalk Easement and the terms, conditions, obligations, and restrictions imposed herein in its authorization to either subdivide the Property or in the issuance of any permits or development approvals associated with any construction of improvements on the Property and that the City may suffer irreparable harm from the violation of the terms established herein.

TO HAVE AND TO HOLD the terms, conditions, obligations and restrictions imposed herein shall be binding upon the Grantor, its successors and assigns, and shall continue as a servitude running with the land in perpetuity. Grantor covenants that it is vested of the Property in fee simple, has the right to convey the same in fee simple, that the Property is free from encumbrances except as herein stated or subordinated herein, and that Grantor will warrant and defend such title to the same against claims of all persons. This Sidewalk Easement shall not divest the Grantor of any rights or interests in its Property not herein mentioned.

[Signature pages follow this page]

[Grantor Signature Page]

IN WITNESS WHEREOF, Grantor hereby executes this Sidewalk Easement under seal as of the day and year first above written.

Witnesses

GRANTOR:

Witness 1 Michael Lewis Coop Construction Inc. a Florida Corporation

Witness 2 Cyndi L. Dington By: [Signature] (SEAL)
Name: Michael Coop
Its: President

State of Florida

County of Brevard

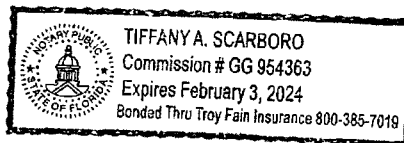
The Foregoing Instrument Was Acknowledged before me by means of (xx) physical presence or () online notarization on September 13, 2021 by Michael Coop, President of Coop Construction Inc, a Florida corporation, who () is/are personally known to me or who () has/have produced a valid _____ as identification.

Tiffany A. Scarboro

Notary Public

Printed Name:

My Commission expires:



Grantee:

TO Brevard County Florida
municipal Corporation

LOCATION MAP

Section 13, Township 23 South, Range 35 East - District: 1

PROPERTY LOCATION: The parcel is located on east side of Curtis Boulevard just north of Fay Boulevard, in Cocoa.

OWNERS NAME(S): Coop Construction, Inc.





Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.10.

10/12/2021

Subject:

Approval Re: Permission to Authorize the Public Works Department Director to Select the Acquisition Approach for the Sea Ray Drive Bridge over Sykes Creek Replacement - District 2

Fiscal Impact:

The Board approved to fund the bridge replacement on December 10, 2019 which included 20 percent of Merritt Island Redevelopment Agency General Fund Tax Increment Financing funds up to \$275,000 per year for up to ten years which was then adopted on September 15, 2020 via Ordinance No. 20-15.

Dept/Office:

Public Works Department/Finance and Contracts Administration

Requested Action:

It is requested the Board of County Commissioners: 1. Authorize the Public Works Department Director to select the most advantageous acquisition approach, Design-Build or Design-Bid-Build, for the Sea Ray Drive Bridge Replacement; 2. Approve the advertisement and award of any competitive solicitations needed for the selected acquisition approach, such as a Design Build firm or a design consultant and construction contractor along with Construction Engineering Inspection (C.E.I.); 3. Authorize the County Manager or designee to execute all contracts, contract-related documents and any necessary contract extensions upon review and approval by the County Attorney's Office, Risk Management, and Purchasing Services; and 4. Authorize the County Manager to approve any necessary Budget Change Requests.

Summary Explanation and Background:

In September 2017, Hurricane Irma inflicted damage upon the Sea Ray Bridge over Sykes Creek. Afterwards, the Board approved Resolution 17-191E, committing to work expeditiously to restore or rehabilitate the Bridge. In consideration of the Resolution, coupled with the County's assurances to the Florida Department of Transportation and the Florida Division of Emergency Management, County staff determined that a Design-Build approach would be utilized to complete the work. On December 10, 2019, the Board approved to replace the Bridge, in lieu of bridge repair, and authorized the Notice to Proceed to Kisinger Campo and Associates, Corp. (KCA) to prepare the Design Criteria Package needed to acquire a Design-Build firm.

To date, KCA has submitted the draft Design Criteria Package which consists of the following: concept plans, preliminary geotechnical data, preliminary survey data, preliminary bridge hydraulic report, preliminary utility report, and contamination screening evaluation which are in review by the County. KCA also submitted the required permit applications to the environmental and regulatory agencies. Utility relocation coordination with the City of Cocoa (critical water main) and Brevard County Utility Services (critical sewer force main) has been ongoing and extensive.

Due to external factors beyond the control of the County, advantages of the Design-Build approach to replace the Bridge have diminished. Relocation of Cocoa's water main is anticipated for completion in May 2023, approximately 20 months from now. The County's force main relocation is expected to be completed in the Fall of 2022. Both pursuits may be further impacted by a shortage of raw materials that currently exists in the commercial piping industry. These utility-related time-consuming efforts represent the critical path in the overall project schedule. County staff will monitor these evolving conditions and determine which acquisition approach is in the best interests of the County, either Design-Build or Design-Bid-Build. Based on the foregoing, it appears that soon County staff will need to pivot from the Design-Build approach to Design-Bid-Build as any time-saving benefits are steadily decreasing.

Clerk to the Board Instructions:



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.11.

10/12/2021

Subject:

Request permission to terminate Lease Agreement with Jonathan Cecchi for access to approximately 128 acres adjacent to the South Central Wastewater Treatment Plant.

Fiscal Impact:

Per the agreement, the lessee is required to pay the County's Natural Resource Management Department (NRMD) an annual lease fee of \$141. Thus, the termination of this agreement will eliminate \$141 per year to Natural Resources Department.

Dept/Office:

Utility Services Department

Requested Action:

Request Board approval to terminate the Lease Agreement with Jonathan Cecchi for access to approximately 128 acres adjacent to the South Central Wastewater Treatment Plant for purpose of cattle grazing.

Summary Explanation and Background:

On September 19, 2016, a contract was signed, based on an advertised bid, between the NRMD and Mr. Jonathan Cecchi, where Mr. Cecchi was given access to 128 acres of Utility Services owned land adjacent to the South Central Wastewater Treatment Plant for the purpose of cattle grazing.

In May of 2021, the Utility Services Department and NRMD signed a Memo of Understanding to allocate the management of the Viera Wetlands and its adjacent land back to the responsibility of the Utility Services Department.

On September 19, 2021, the initial five-year term of the lease with Mr. Cecchi expired. After a review of the short- and long-term Utilities Department needs, including providing a new Fats, Oils, and Grease Depot, de-mucking of the Viera Wetlands and construction of a central warehouse, it was determined that the use of the 128 acres is necessary to meet the needs of this Department. In order to plan and execute the aforementioned projects we deem it appropriate to decline to renew and terminate the lease agreement with Mr. Cecchi to avoid any issues or conflict with his cattle on the property.

Mr. Cecchi has been notified of this proposed action by the Utilities Services Department by certified letter and by email.

See attached Lease Agreement.

Clerk to the Board Instructions:

E-mail clerk memo to rose.lyons@brevardfl.gov <<mailto:rose.lyons@brevardfl.gov>> and mail originals to Utility Services Department.

LEASE AGREEMENT

THIS LEASE AGREEMENT ("Agreement") is entered into effective this 19TH day of SEPTEMBER, 2016 between BREVARD COUNTY, a political subdivision of the State of Florida ("COUNTY") and JONATHAN CECCHI LESSEE ("LESSEE").

For good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

Subject to the following terms and conditions, the COUNTY leases to LESSEE the real property ("Property") described in the attached Exhibit "A".

1. TERM. The term of this Agreement is five (5) years, commencing on the date of execution by COUNTY, unless otherwise terminated as provided herein. Provided that LESSEE has not defaulted or otherwise breached the terms of this Agreement, LESSEE shall have the right to request to renew this lease for two (2) additional five-year (5) successive terms under the same conditions set forth herein. LESSEE shall notify the Natural Resources Management Department (NRMD) Environmental Land Manager (ELM) in writing at least ninety (90) days prior to the expiration of this Agreement that they desire renewal. The NRMD ELM shall approve or deny the renewal request in writing prior to the Agreement's expiration. This Agreement may be terminated by either party upon ninety (90) days written notice to the other party. Upon termination of this Agreement, LESSEE shall have ninety (90) days in which to remove any personal property. Any property not removed within said ninety (90) day period shall automatically become property of the County without further action. In the event the COUNTY sells the subject property to a third party, this Agreement shall survive the sale and LESSEE shall maintain its rights and obligations under this Agreement for any remaining period as approved by the COUNTY.

2. LOCATION AND ACCESS: The PROPERTY consists of approximately 128 acres located south of the South Central Regional Water Reclamation Facility (SCRWTF) situated in Section 18, Township 26 South, Range 36 East, including

- a) Parcel ID# 26-36-18-00-4 (approximately 110.5 acres)

- b) A region of Parcel ID# 26-36-18-00-3 (approximately 17.5 acres)

PROPERTY does NOT have direct access. The County shall allow access through an unimproved maintenance trail intended for use by off-road vehicles. LESSEE may improve this trail at their own expense with the County's prior written approval. LESSEE may alternately, with prior written approval by the County, install a gate at one pre-approved location and clear existing brush, and/or effect additional improvements, in order to gain access through a second trail. Any other site access would require permission of adjacent property owners. Such permission shall be in writing, should the LESSEE secure it, with a copy provided to the County prior to utilization.

3. USE OF PROPERTY: PROPERTY shall be used for cattle grazing. Recreational use of the PROPERTY, including hunting and the use of recreational motor vehicles is prohibited. LESSEE shall make no illegal, improper, immoral, or unlawful use of the property, nor will LESSEE allow the use of the property for any purpose other than that set forth herein. Failure to comply with this provision shall be considered a material default of the agreement.

4. STOCKING RATE: An animal unit (AU) is one (1) bull or one (1) cow with or without one (1) unweaned calf. The maximum stocking rate for the PROPERTY is one (1) AU per four (4) acres in areas used for active grazing. Any portion of the lease used solely for haying operations will be deducted from the overall stocking acreage. The LESSEE may stock any number of animal units below the maximum stocking rate stated. The stocking rate may be increased upon favorable evaluation and written approval by the County.

5. FENCING AND IMPROVEMENTS: Prior to utilizing any section of the PROPERTY, all fences and gates must meet the following criteria.

i) The perimeter of all areas utilized for grazing and/or haying operations must be fenced. The addition or removal of any interior fences within such areas is at the discretion of the LESSEE. The LESSEE will construct new fence where required.

ii) Fences on the east and south perimeters will be constructed of (4) four strands of barbed wire, attached to pressure treated wood or metal fence posts, with post spacing not to exceed (20) twenty feet. Fencing must be a minimum of 48" (forty-eight inches) in height or equal in height to adjacent fencing, whichever is greater. .

iii) Fences on the west and north perimeters are intended to exclude feral hogs from adjacent County-owned properties, and must be constructed of woven wire fencing,

minimum 10 gage top and bottom wires, minimum 12.5 gage filler wires, maximum 6" stay spacing, attached to pressure treated wood or metal fence posts, with post spacing not to exceed (20) twenty feet. Fencing must be a minimum of 48" (forty-eight inches) in height. Any gates existing or constructed along the north or west perimeter must be designed to likewise exclude feral hogs.

iv) The LESSEE will repair and maintain all fences, gates and locks in good condition during the term of this Lease. Locks will be provided by the County. In the event an existing fence on the PROPERTY is damaged or inadequate, the LESSEE will take immediate action to replace or repair it.

v) The LESSEE must obtain the County's prior written approval before constructing any additional interior fences upon the PROPERTY.

vi) The LESSEE will maintain in good repair, any existing improvements upon the property (e.g. working pens, troughs, sheds, and other structures) or any improvements that may be placed upon the PROPERTY during the term of this Lease. Unless otherwise provided herein, the LESSEE may not make improvements to the PROPERTY without the prior written approval of the County.

vii) At the end of the lease term or any renewal, any fencing, gate(s) or other improvements installed by the LESSEE will be deemed the property of the County and will remain with the PROPERTY unless otherwise acknowledged by the County in writing

6. IDENTIFICATION All cattle must bear identification (e.g., ear tags, tattoos, brands, etc.), readily traceable to the LESSEE before their release on the PROPERTY.

7. GENERAL OPERATIONS AND MANAGEMENT The LESSEE will take appropriate measures to prevent overgrazing, pasture degradation, and other environmental impacts to the PROPERTY. Such measures will include but are not limited to the following:

i) LESSEE will conduct all activities in accordance with all applicable rules and regulations. LESSEE further agrees, when practicable, to conduct all activities in accordance with the most recent Water Quality Best Management Practices (BMPs) for Cow/Calf Operations established by the Florida Department of Agriculture and Consumer Services, Office of Agriculture Water Policy (FDACS-OAWP). The FDACS-QAWP Water Quality/Quantity Best Management Practices Manual is available at

<http://www.freshfromflorida.com/Divisions-Offices/Agricultural-Water-Policy/Enroll-in-BMPs/BMP-Rules-Manuals-and-Other-Documents>

Prior to conducting activities on the PROPERTY, LESSEE will demonstrate its intent to implement practicable BMPs by signing a Notice of Intent to Implement Water Quality BMPs for Cow/Calf Operations and submitting it to FDACS-OAWP, with copies to the County:

ii) The County desires the control or eradication of invasive exotic plants within the PROPERTY, including, but not limited to, Cogongrass (*Imperata cylindrica*) and Brazilian Peppertree (*Schinus terebinthifolius*). The LESSEE will be responsible for monitoring for the presence of exotics on the PROPERTY, and may elect to conduct maintenance activities acceptable to the County (e.g. prescribed burns, herbicide application, or mechanical removal) to minimize and limit the spread of exotics onto the PROPERTY. The cost of such maintenance may be deducted from the lease with prior written approval from the County. If LESSEE purchases hay, seed, or other planting materials off-site, the LESSEE agrees to make every practicable effort to ensure that such materials are free of exotics.

iii) The LESSEE will assume responsibility for controlling feral hogs on the PROPERTY. The County may, at its discretion, offer the assistance of volunteer trappers to assist in this effort if acceptable to the LESSEE; but the County will not be responsible for the control. All captured swine must be slaughtered before being removed from the site. County shall conduct a criminal background check on any individuals the LESSEE desires to assist with control efforts. LESSEE shall reimburse the County for cost of all such background checks.

8. QUARANTINE The LESSEE must quarantine all cattle for seven (7) days prior to releasing them on the PROPERTY. The LESSEE will ensure that all cattle are free of exotic seed prior to releasing them on the PROPERTY.

9. HAYING Haying is allowed on the PROPERTY. To ensure that the quality of the hay field is maintained or enhanced, the LESSEE agrees to harvest hay from the pasture(s) at least once a year, but no more than four (4) times annually. The LESSEE will conduct harvesting activities in a manner that will not damage or strip the pasture(s) of

desirable grasses. No additives, such as lime or fertilizer, can be used to enhance hay production.

10. **WORKS OF THE COUNTY** The County reserves the right to enter upon the PROPERTY, at such times and places as the County may deem necessary, for the purposes of inspection the PROPERTY, constructing roads and other projects, constructing canals or ditches, and for any matter pertaining to water management or land management activities. The County will be identified in marked vehicles or have ID badge on person.

11. **ACCESS, PERSONNEL AND VEHICLES** With the exception of operations by County staff and County-authorized volunteers, only personnel and vehicles utilized or authorized by the LESSEE for use in its cattle grazing and haying operation are allowed on the PROPERTY. The County shall provide access to the PROPERTY through the SCRWTF.

12. **PROTECTION** The LESSEE will regularly inspect the PROPERTY for the purpose of detecting wildfires, trespasses, vandalism, etc. on the PROPERTY. Such inspections may include inspecting for downed or damaged fences, open gates and cattle that have strayed from the PROPERTY. LESSEE must immediately notify the County upon the discovery of any wildfire, trespass, or vandalism. LESSEE is responsible for repairing damaged fences, and taking appropriate measures to immediately return stray cattle to the PROPERTY.

13. **PRESCRIBED BURNING** Prescribed burning may be conducted by the LESSEE with prior written approval from the County. The LESSEE must disk firebreaks around the interior perimeter of the PROPERTY, at least annually and more frequently if necessary, to protect the Preserve and PROPERTY from damage or destruction by wildfire and ensure that prescribed burns are conducted safely. Firebreaks will be maintained at a minimum width of fifteen (15) feet.

14. **PROTECTION OF LISTED SPECIES** During the period of this AGREEMENT the presence on the PROPERTY of Species listed as Endangered, Threatened, or of Special Concern by the United States Fish and Wildlife Service ((USFWS) and/or the Florida Fish and Wildlife Conservation Commission (FFWCC) may require certain actions to ensure protection of these listed species. The LESSEE agrees to coordinate and cooperate with the County during consultations with the USFWS and/or FFWCC to determine the actions

necessary to ensure protection of these listed species. The LESSEE agrees to abide by all protective requirements stipulated by the USFWS and/or FFWCC

15. **HISTORIC PRESERVATION** The LESSEE shall not remove or disturb, or cause or permit to be removed or disturbed, any historical, archaeological, architectural or other cultural artifacts, relics, remains or objects of antiquity. In the event such items are discovered on the premises, the LESSEE shall immediately notify the County and protect the site and the material from further disturbance until the County gives clearance to proceed.

16. **PROTECTION OF NATURAL RESOURCES** The LESSEE agrees, with respect to general maintenance of the land and wildlife that the LESSEE will implement and carry on a program of stewardship to promote and maintain said wildlife and land. The LESSEE shall at all times:

- i) Maintain the PROPERTY in good condition and free from washes, gullies, and other erosion which is detrimental to the PROPERTY;
- ii) cut no timber, conduct no mining operations, remove no sand, gravel or kindred substances from the PROPERTY;
- iii) Place no landscape debris, garbage, refuse, or junk on the PROPERTY; and
- iv) Commit no waste of any kind nor in any manner substantially change the contour or condition of the PROPERTY.

17. **CHEMICAL USEAGE** Lessee shall maintain all licenses, permits or authorizations necessary or required in connection with Lessee's use of the PROPERTY, including those pertaining to the use, storage, distribution and disposal of pesticides, herbicides, fertilizers and other chemicals used in accordance with the Cattle Grazing and Hayfield Management Plan and maintenance of the PROPERTY. Lessee will not store or mix any pesticides, herbicides, and other potentially hazardous chemicals on the PROPERTY. Lessee shall handle, distribute, apply, and dispose of all pesticides, herbicides, fertilizers and other chemicals in accordance with all federal, state and local regulations, and in strict accordance with the manufacturer's instructions. Lessee shall be fully responsible for satisfying any reporting requirements imposed by regulatory authorities relative to the use of such chemicals.

18. **RENT:** LESSEE agrees to pay Brevard County RENT for the use and occupancy of the property in accordance with the bid, payable in quarterly installment in

advance. Rent for any portion of a year shall be prorated. Checks shall be made payable to the Board of County Commissioners, Brevard County, Florida, and mailed to Brevard County Natural Resources Management Department, 2725 Judge Fran Jamieson Way, Building A, Room #219, Viera, FL 32940.

19. **UTILITIES:** LESSEE shall pay for all utility charges connected with LESSEE'S use of the property. LESSEE shall arrange for the provision of utilities required for the LESSEE'S use, shall pay for all charges required for connection or extension, if any, and LESSEE shall be responsible for maintenance of all utilities to the extent that LESSEE'S agreement with the utility may require customer responsibility for maintenance. Written approval by the County is required prior to installation or use of utilities.

20. **COMPLIANCE WITH APPLICABLE LAW.** LESSEE shall be allowed to utilize and manage the property in compliance with applicable local, state and federal laws.

21. **ASSIGNMENT.** This Agreement is not assignable.

22. **INDEMNIFICATION.** Except for losses, damages and claims arising out of the acts or omissions of COUNTY or COUNTY'S agents, contractors and employees, LESSEE shall indemnify and hold harmless COUNTY from and against any and all claims arising from LESSEE'S use of the Property, or from the conduct of LESSEE'S business or from any activity, work or things done by Lessee, it's agents, contractors, or assigns, in or about the Property and shall further indemnify and hold harmless COUNTY from and against any and all claims arising from any breach or default in the performance of any obligations on LESSEE'S part to be performed under the terms of this Agreement, or arising from any negligence of the LESSEE, or any such claim or any such action or proceeding brought thereon; and in case any action or proceeding be brought against COUNTY by reason of any such claim, LESSEE, upon notice from COUNTY, shall defend the same at LESSEE'S expense, by counsel acceptable to COUNTY. Likewise, to the extent allowed by law, COUNTY shall indemnify and hold harmless LESSEE from and against any and all claims arising from any activity, work or things done, permitted or suffered by COUNTY in or about the Property to the extent that such claims, damages, losses, or expenses are caused solely by the negligent or wrongful acts of the COUNTY or its employees. Nothing contained herein shall constitute a waiver by either party of its sovereign immunity or the provisions of Section 768.28, Florida Statutes. Nothing herein shall be construed as consent to be sued by third parties. The parties acknowledge that valuable consideration has been given for the provisions of this indemnity clause.

23. MAINTENANCE OF PROPERTY. COUNTY shall be responsible for routine maintenance and cleaning of ditches, as necessary. LESSEE shall not alter any existing ditches or change the flow of water across the Property for any reason. LESSEE shall be responsible for all other maintenance of the Property. LESSEE agrees to keep the Property free and clear of any obstruction, rubbish and litter. LESSEE agrees to maintain the Property in the manner and condition as previously maintained and return same to the COUNTY upon termination or expiration in such condition, reasonable wear and tear excepted. Nothing herein shall be construed as consent on the part of LESSEE to any change in the flow of surface water across any other property owned by LESSEE. LESSEE shall not use the property for any purpose other than related agricultural activities.

24. RENT. LESSEE agrees to pay COUNTY rent for the use and occupancy of the Property, the sum of \$110 per acre per year, payable in quarterly installments in advance. Rent for any portion of a year shall be prorated. Checks shall be made payable to the Board of County Commissioners, Brevard County, Florida, and mailed to Brevard County Natural Resources Management Department, 2725 Judge Fran Jamieson Way, Building A, Room 219, Viera, Florida 32940.

25. UTILITIES. LESSEE shall pay for all utility charges connected with LESSEE's use of the Property. LESSEE shall arrange for the provision of utilities required for LESSEE's use, shall pay for all charges required for connection or extension, if any, and LESSEE shall be responsible for maintenance of all utilities to the extent that LESSEE's agreement with the utility may require customer responsibility for maintenance.

26. WARRANTIES. LESSEE accepts the Property for use in its cattle operations, as of the effective date of this Agreement in its existing condition as is, where is, and with all faults, without representation of warranty of any kind, expressed or implied, including, but not limited to, with respect to such matters as title, zoning use, economic feasibility, and soil, environmental and other physical conditions. LESSEE's use of the Property shall be subject to all recorded matters, laws, ordinances, and governmental regulations and orders. LESSEE hereby acknowledges that it has been afforded full opportunity to and has fully investigated such matters to its satisfaction prior to entering into this Agreement, or will investigate such matters fully, and is entering in this Agreement solely upon such investigations. Except as provided within this Agreement, LESSEE acknowledges that the COUNTY has made no representations or warranties to LESSEE as to the conditions of the Property or the suitability of the Property for LESSEE's intended use.

27. INSURANCE. LESSEE further agrees to provide and maintain at all times during the Term of this Agreement without cost or expense of the COUNTY, policies of insurance generally known as Comprehensive Commercial General Liability Policies, insuring LESSEE against any and all claims, demands and causes of action whatsoever for injuries received and damage to the Property in connection with LESSEE's use, occupation, management and control of the Property and improvements thereon. Such policies of insurance shall insure LESSEE in an amount not less than One Million and no/100 Dollars (\$1,000,000.00) per occurrence, to cover any and all claims connected with any accident or occurrence that may arise or be claimed to have arisen against LESSEE. LESSEE shall also obtain property damage insurance insuring LESSEE in an amount not less than One Million and no/100 Dollars (\$1,000,000.00) to cover the claims of any person or persons from a single or specific act that results in alleged damage to Property. This insurance shall provide that the COUNTY shall be entitled to thirty (30) days notice of any changes or cancellation in said policy. LESSEE shall notify the COUNTY immediately in writing of any potentially hazardous condition existing on or about the Property. LESSEE shall provide the described insurance policies with insurers acceptable to the COUNTY. These insurance requirements may not relieve or limit the liability of LESSEE. The COUNTY does not in any way represent that these types or amounts of insurance are sufficient or adequate to protect LESSEE's interest or liabilities, but are merely minimums. A copy of LESSEE's insurance policies shall be provided to the Brevard County Natural Resources Management Department Environmental Land Manager, 2725 Judge Fran Jamieson Way, Building A, Viera, Florida 32940, within ten (10) days of the date of execution of this Agreement. LESSEE agrees and understands that the COUNTY does not and shall not carry liability, theft or fire insurance on the Property to cover LESSEE's interest.

28. TERMINATION FOR DEFAULT. LESSEE understands and agrees that LESSEE's use of the Property is upon the expressed condition that should LESSEE fail or neglect to perform or observe any or all the covenants contained within this Agreement, or fail to make any constructive use of the Property for the purpose designated herein, which failure or neglect continues for a period of thirty (30) days after receipt of written notice, then LESSEE's right to use the Property as contained herein shall, at the option of the COUNTY, become null and void. Time is of the essence in the performance of all covenants and conditions.

29. LITIGATION COSTS; VENUE. In the event of any legal action to enforce the terms of this Agreement, each party shall bear its own attorney's fees and costs.

Any action brought in law or equity to enforce the terms of this Agreement shall be held before a court of competent jurisdiction in and for Brevard County, Florida and any trial conducted shall be non-jury.

30. NOTICE. Any notice required to be given shall be provided to the COUNTY at the Office of the Natural Resources Management Department, 2725 Judge Fran Jamieson Way, Building A, Room 219, Viera, Florida 32940. Notice to LESSEE shall be given at P.O. Box 3462, Cocoa, Florida 32924.

31. ENFORCEMENT. No section or provision of this Agreement shall be deemed to have been waived unless such waiver shall be in writing signed by the COUNTY. The failure of the COUNTY to insist upon the strict performance of the terms of this Agreement, or the failure of the COUNTY to exercise any right, option or remedy set forth in this Agreement shall not be construed as a waiver of any other right, option or remedy the COUNTY may have under this Agreement or as a waiver of a subsequent breach of the terms of this Agreement.

32. GOVERNING LAW. This Agreement shall be governed, interpreted and construed according to the laws of the State of Florida.

33. MODIFICATIONS. This Agreement, together with any exhibits, constitutes the entire agreement between COUNTY and LESSEE and supersedes all prior written or oral understandings. This Agreement and any exhibits may only be amended, supplemented or canceled by a written instrument duly executed by the parties hereto.

19. RIGHT TO AUDIT RECORDS. In performance of this Agreement, LESSEE shall keep books, records, and accounts of all activities related to this Agreement, in compliance with generally accepted accounting procedures. All documents, papers, books, records and accounts made or received by LESSEE in conjunction with this Agreement and the performance of this Agreement shall be open to inspection during regular business hours by an authorized representative of LESSEE and shall be retained by LESSEE for a period of three (3) years after termination of this Agreement, unless such records are exempt from section 24(a) of Article I of the State Constitution and Section 119.07(1) Florida Statutes. All records or documents created by or provided LESSEE in connection with this Agreement, are public records and LESSEE agrees to comply with any request for such public records or documents made in accordance with Section 119.07 Florida Statutes.

20. CONSTRUCTION OF AGREEMENT. The parties hereby acknowledge that they fully reviewed this Agreement, its attachments and had the opportunity to consult with legal counsel of their choice, and that this agreement shall not be construed against any party as if they were the drafter of this Agreement.



BOARD OF COUNTY COMMISSIONERS

Natural Resources Management Department
2725 Judge Fran Jamieson Way
Building A, Room 219
Viera, Florida 32940

Inter-Office Memo

TO: The Honorable Jim Barfield, Chairman
Board of County Commissioners

THROUGH: Stockton Whitten, County Manager *[Signature]*
Virginia Barker, Director, Natural Resources Management Department (NRM) *[Signature]*
Darcie McGee, Program Manager, Environmental Resources Management (ERM) *[Signature]*

FROM: Raleigh T. Berry III, Sr. Environmental Scientist, NRM *[Signature]*

DATE: September 22, 2016

SUBJECT: Cattle Lease Agreement – Viera Wetlands

As set forth in the attached Clerk's Memo dated July 13, 2015, the Board of County Commissioners granted authorization to bid and award to the highest bidder, and authorized the Chairman to execute, a Lease Agreement for the purpose of cattle grazing within a 118 acre site adjacent to the Viera Wetlands.

The attached Lease Agreement document has been approved by the County Attorney's Office. The associated Clerk's Memo is included for your review.

We respectfully request your signature on the enclosed original Lease Agreement document.

Once signed, please call Marie Winkler at X52414 for pick up.

Should you have any questions or concerns, please contact Raleigh Berry at X52423.

Thank you.

2 Attachments:

1. Clerk's Memo dated July 12, 2016
2. Lease Agreement



FLORIDA'S SPACE COAST



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001
Fax: (321) 264-6972
Tammy.Rowe@brevardclerk.us

July 13, 2016

MEMORANDUM

TO: Virginia Barker, Natural Resources Management Director

RE: Item II.A.7., Permission to Bid, Award, and Execute Lease Agreement for 128± Acres to be Used for Cattle Grazing

The Board of Commissioners, in regular session on July 12, 2016, granted permission to bid and award to the highest bidder; authorized the Chairman to execute a lease agreement for the purpose of cattle grazing; and in accordance with Florida Statute 125.35(1)(a), the Board is expressly authorized to sell and convey any real or personal property and to lease real property belonging to the County, whenever the Board determines that it is to the best interest of the County to do so.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

A handwritten signature in blue ink that reads "Tammy Rowe".

Tammy Rowe, Deputy Clerk

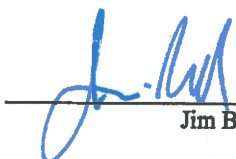
cc: Utility Services Director
Finance
Budget

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first above written.

ATTEST


 Scott Ellis, Clerk

BOARD OF COUNTY COMMISSIONERS
 OF BREVARD COUNTY, FLORIDA

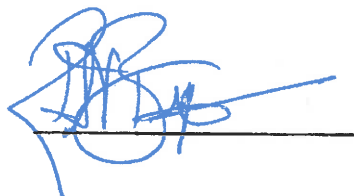

 Jim Barfield, Chairman

As approved by the Board November 17, 2015

Reviewed for Legal Form and Content


 Christine Lepore, Assistant County Attorney

WITNESS



LESSEE

By: 

Exhibit A, Aerial Map



Shown are Property ID# 26-36-18-00-4 which is approximately 110.5 acres
 and a section of Property ID 26-36-18-00-3 which is approximately 17.5 acres.
 The area highlighted in red is excluded from this lease.



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.12.

10/12/2021

Subject:

Approval, Re: Annual Agreement between Brevard County Board of County Commissioners and Brevard County Health Department and the Associated Health Department Fee Resolution

Fiscal Impact:

Fiscal Year 21-22: The impact to the General Fund will be \$467,415. Funds are budgeted in Fund 0001, Health Department Cost Center 201470.

Fiscal Year 22-23: There will be an impact to the General Fund, if approved by the Board of County Commissioners.

Dept/Office:

Housing and Human Services

Requested Action:

It is requested that the Board of County Commissioners approve and authorize the Chair to execute: 1) the annual agreement with the State of Florida, Department of Health for operation of the Brevard County Health Department for FY 2021-2022; 2) the Resolution establishing and revising certain fees and charges for Brevard County Health Department and Health and Environmental Services, as authorized by State of Florida Administrative Code or Policy; and 3) to further authorize the Chair, and/or County Manager or designee to execute any future amendments or agreements contingent upon approval of Risk Management and the

County Attorney. Summary Explanation and Background:

The County Health Departments were created pursuant to Chapter 154 F.S. to “promote, protect, maintain, and improve the health and safety of all citizens and visitors of this state through a system of coordinated county health department services.” In order to assure coordination between the State and the County in the operation of the Brevard County Health Department (BCHD), the State and the County enter into an annual agreement.

Per this agreement, the BCHD agrees to maintain 3 levels of service pursuant to Section 154.01(2) F.S. These include Environmental Health Services, Communicable Disease Control Services, and Primary Care Services.

The County will provide administrative and clinic facilities at the following locations - 2555 Judge Fran Jamieson Way, Viera; 2725 Judge Fran Jamieson Way, Bldg. A, Viera; 1748 Cedar St., Rockledge; 611 Singleton Ave., Titusville; and 601 E. University Blvd, Melbourne, FL 32901.

This contract is a renewal with the Florida Department of Health stipulating Public Health services that will be

provided by the Brevard County Health Department. The agreement identifies the County's contributions as \$467,415 for the cost of Public Health Services for low-income residents. This contract also sets out the County's responsibility as it relates to facilities, maintenance and equipment, as well as environmental health fee revenues anticipated to be received by the County Health Department.

PUBLIC HEALTH VACCINATIONS

No fee increases requested.

PRIMARY CARE

No fee increases requested.

ENVIRONMENTAL HEALTH

No fee increases requested.

Clerk to the Board Instructions:

Have Chair sign four (4) original agreements and two (2) original fee resolutions, then return to HHS

Brevard County Board of County Commissioners Contributions to the Brevard County Health Department
Requested Amounts and Details
State & County Core Contract
FY 2021-2022

FY 2020-2021 State & County Core Contract Request for the Brevard County Health Department

\$347,415	Contribution for Public Health services for the Brevard County community (\$115,805 for Communicable Disease surveillance, treatment and control: - Fund nurses to provide immunizations to uninsured children to prevent childhood diseases and as a requirement to attend elementary and middle school. - Prevent the spread of STDs (Sexually Transmitted Diseases) among the youth and infected adults in the community. Provide STD treatment regardless of ability to pay in order to control the spread of these diseases to others. Tracking sexual encounter partners of infected persons. (\$115,805 for Sanitary Nuisance complaints and follow ups by Environmental Health: Citizen calls reporting Sewage Spills, Abandoned Septic Tanks, Free Flowing Wells, Food Poisoning Complaints, Waterborne Illness Complaints, Indoor Air and Mold Calls, Outdoor Rat Infestations, Abandoned Pool Educations, Harmful Water Algae Blooms, Unlicensed Activities, Fish Kill Calls, Animal Waste Odors, and other complaints) (\$115,805 for uninsured adult health medical services May also be used in partnership with the Space Coast Volunteers in Medicine located inside the Brevard County Health Department-Viera facility to assist in providing Public Health services to low-income, uninsured adults from the Brevard County community.)
25,000	Contribution for Low Income, Uninsured Adult Dental Clinics (May also be used to support services provided by Dentists volunteering their time to provide dental care to low income, uninsured adults in the Health Department and community based dental clinics).
<u>95,000</u>	Contribution for Indigent Maternity Program Medical Services
\$467,415	Total Contribution Request for FY 2020-2021

Note: Any grant matches for low-income or uninsured health care services using these funds by providers other than the Brevard County Health Department will be determined by and provided directly between the Brevard County Health Department and the designated local Agencies and/or providers.

Fee Resolution for Brevard County Health Department

Recommended

Changes for FY 2021-2022

<u>Service</u>	<u>Current County Fee</u>	<u>Proposed County Fee</u>	<u>Amount of Change</u>	<u>Reason for Change</u>
<u>PUBLIC HEALTH VACCINATIONS</u>				
No Fee increases requested				
<u>ENVIRONMENTAL HEALTH</u>				
No Fee increases requested				
Verbage change to align with County service description - Section H, page 12, item 29				"Variance application for Brevard County Code Requirements" has been changed to read "Block Density Review for Brevard County Code Requirements"
<u>PRIMARY CARE CLINICAL SERVICES</u>				
No Fee increases requested				

Page 1 of 1

RESOLUTION _____

BREVARD COUNTY, FLORIDA

THE FOLLOWING RESOLUTION ESTABLISHING AND REVISING CERTAIN FEES AND CHARGES FOR HEALTH AND ENVIRONMENTAL SERVICES OF THE BREVARD COUNTY HEALTH DEPARTMENT AND REPEALING PAST RESOLUTIONS INCONSISTENT WITH THIS RESOLUTION WAS ADOPTED AT THE REGULAR MEETING OF THE BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA ON THE DAY OF OCTOBER, 2021.

WHEREAS, Chapter 154, Florida Statutes, authorizes the Board of County Commissioners to establish public health service fees; and

WHEREAS, the Board of County Commissioners has entered into a contract with the State of Florida Department of Health, and

WHEREAS, the Board of County Commissioners of Brevard County, Florida, in order to support and expand existing public health services to the community at large, finds it appropriate to establish such fees and revise them as needed from time to time; and

WHEREAS, the current fee and service schedule is in need of revision in order to accurately reflect services and charges offered as directed under the revised Florida Administrative Code; and

WHEREAS, except as provided by law, fees remain in Brevard County to help offset the cost of public health services, and

WHEREAS, the Board of County Commissioners of Brevard County, Florida has determined that the fees and charges hereinafter specified are reasonable.

NOW, THEREFORE, BE IT RESOLVED that the Board of County Commissioners of Brevard County, Florida, hereby establishes the following fees for the Brevard County Health Department.

SECTION 1. FLORIDA DEPARTMENT OF HEALTH IN BREVARD COUNTY

FEE SCHEDULE

The schedule of fees and charges for review of the Brevard County Health Department shall henceforth be as follows:

SECTION A. ENVIRONMENTAL HEALTH SERVICES

The following Environmental Health fees are hereby adopted as authorized by State of Florida Administrative Code or Policy, unless otherwise indicated.

A. Public Swimming Pools and Bathing Places

Annual permits are prorated semi-annually

1. Annual operating permit - up to and including 25,000 gallons
 - State fee \$ 125.00
 - BCC resolution fee 100.00
 - Total \$ 225.00

2. Annual operating permit - more than 25,000 gallons
 - State fee \$ 250.00
 - BCC resolution fee 100.00
 - Total \$ 350.00

3. Exempted Condo or Co-op Pools (over 32 units)
 - State fee \$ 50.00
 - BCC resolution fee 100.00
 - Total \$ 150.00

4. Re-inspection (no charge for 1st reinspection)
 - BCC resolution fee \$ 60.00
 - Total \$ 60.00

5. Initial Operating Permit
 - State fee \$ 150.00
 - BCC resolution fee 50.00
 - Total \$ 200.00

6. Exempted Condo or Co-op Pools (32 units or less)
 - BCC resolution fee \$ 100.00

7. Bathing Place Sampling Request per visit
 - BCC resolution fee Lab Cost + \$30.00

8. River Sampling Request per visit

- BCC resolution fee Lab Cost + \$30.00
- 9. Late fee - (on permits paid after June 30)
 - BCC resolution fee \$ 35.00
- 10. Variance Request
(full amount is transferred to Bureau of Water)
 - State Fee \$300.00

B. Mobile Home & Recreational Vehicle Parks

Fees are prorated on a quarterly basis

- 1. Annual permit for 5 – 25 spaces
 - State Fee \$ 100.00
 - BCC resolution fee 75.00
 - Total \$ 175.00
- 2. Annual permit for 26-149 spaces
 - State Fee - per space \$ 4.00
 - BCC resolution fee \$ 75.00
- 3. Annual permit for 150 and above spaces
 - State Fee \$ 600.00
 - BCC resolution fee 75.00
 - Total \$ 675.00
- 4. Re-Inspection fee (no charge for first re-inspection)
 - BCC resolution fee \$ 60.00
- 5. Late fee (on permits paid after October 1)
 - BCC resolution fee \$ 35.00

C. Migrant Labor Camps

No Proration

- 1. Annual permit for facilities with 5 to 50 occupants
 - State fee \$ 125.00
- 2. Annual permit for facilities with 51-100 occupants
 - State fee \$ 225.00
- 3. Annual permit for facilities with over 100 occupants
 - State fee \$ 500.00
- 4. Re-Inspection Fee (no charge for first re-inspection)
 - BCC resolution fee \$ 60.00
- 5. Late Fee (on permits paid after October 1)

- BCC resolution fee	\$ 35.00
--------------------------------	----------

D. Biomedical Waste Generators

No Proration

- | | | |
|----|--|--------------|
| 1. | Initial permit - Biomedical Waste Generators,
Storage or Treatment | |
| | - State fee | \$ 85.00 |
| | - BCC resolution fee | <u>10.00</u> |
| | Total | \$ 95.00 |
| 2. | Renewal of annual permit (except exempt generator
producing less than 25 lbs/30 days) postmarked
by October 1 | |
| | - State fee | \$ 85.00 |
| | - BCC resolution fee | <u>10.00</u> |
| | Total | \$ 95.00 |
| 3. | Renewal of annual permit (except exempt generator
producing less than 25 lbs/30 days) postmarked
after October 1 | |
| | - State fee | \$ 105.00 |
| | - BCC resolution fee | <u>10.00</u> |
| | Total | \$ 115.00 |
| 4. | Initial Transporter Registration (includes one truck) | |
| | - State fee | \$ 85.00 |
| 5. | Initial Registration of Each Additional Truck | |
| | - State fee | \$ 10.00 |
| 6. | Annual Registration Renewal (postmarked by 10/01,
includes one truck) | |
| | - State fee | \$ 85.00 |
| 7. | Annual Registration Renewal (postmarked after 10/01,
Includes one truck) | |
| | - State fee | \$ 105.00 |
| 8. | Annual Registration of Each Additional Truck | |
| | - State fee | \$ 10.00 |
| 9. | Re-Inspection Fee (no charge for first re-inspection) | |
| | - BCC resolution fee | \$ 60.00 |

E. Tanning Facilities

Fees are prorated on a quarterly basis

1.	Annual License State fee-Facility (with one device) .	\$ 150.00
	- State fee for each additional device	\$ 55.00
	- BCC resolution fee	\$ 25.00
2.	Late fee (on permits paid after October 1)	
	- State fee	\$ 35.00
3.	Maximum license fee that can be charged for tanning Facilities	
	- State fee	\$ 315.00
	- BCC resolution fee	<u>25.00</u>
	Total Maximum license fee that can be charged . . .	\$ 340.00
4.	Re-inspection fee (no charge after first re-inspection)	
	- BCC resolution fee	\$ 60.00
5.	Plan Review Fee (For New Facilities or Modifications)	
	- BCC resolution fee	\$ 40.00

F. Body Piercing

Fees are prorated on a quarterly basis – Initial license only

1.	Initial License	
	- State fee	\$ 150.00
	- BCC resolution fee	<u>20.00</u>
		\$ 170.00
2.	Temporary Establishment	
	- State fee	\$ 75.00
	- BCC resolution fee	<u>20.00</u>
		\$ 95.00
3.	Annual Renewal License Fee	
	- State fee	\$ 150.00
	- BCC resolution fee	<u>20.00</u>
		\$ 170.00
4.	Late fee (on permits paid after October 1)	
	- State fee	\$ 100.00
5.	Re-Inspection fee (no charge after first re-inspection)	
	- BCC resolution fee	\$ 60.00

G. Tattooing

No Proration

1.	Initial Establishment License	
	- State fee	\$ 200.00
	- BCC resolution fee	<u>20.00</u>
		\$ 220.00
2.	Temporary Establishment License	
	- State fee	\$ 200.00
	- BCC resolution fee	<u>20.00</u>
		\$ 220.00
3.	Annual Establishment Renewal License	
	- State fee	\$ 200.00
	- BCC resolution fee	<u>20.00</u>
		\$ 220.00
4.	Tattoo Artist License	
	- State fee	\$ 60.00
5.	Tattoo Artist Renewal License	
	- State fee	\$ 60.00
6.	Guest Tattoo Artist Registration	
	- State fee	\$ 35.00
7.	Guest Tattoo Artist Re-registration	
	- State fee	\$ 35.00
8.	Reactivation Tattoo Establishment License (Late Fee)	
	- State fee	\$ 75.00
9.	Reactivation of Tattoo Artist License (Late Fee)	
	- State fee	\$ 25.00
10.	Re-Inspection fee (no charge for first re-inspection)	
	- BCC resolution fee	\$ 60.00

H. Food Service

Fees are prorated on a quarterly basis

1.	Annual Permit for Fraternal/Civic organizations,	
	- State fee	\$ 190.00
	- BCC resolution fee	<u>40.00</u>
	Total Annual Permit Fee	\$ 230.00
2.	Annual permit for School Cafeteria:	

	operating for 9 months or less	
	- State fee	\$ 170.00
	- BCC resolution fee	<u>20.00</u>
	Total Annual Permit Fee	\$ 190.00
3.	Annual Permit School Cafeteria Operating for more than 9 months	
	- State fee	\$ 200.00
	- BCC resolution fee	<u>20.00</u>
		\$ 220.00
4.	Annual permit for Movie Theatres	
	- State fee	\$ 40.00
	- BCC resolution fee	<u>40.00</u>
	Total Annual Permit Fee	\$ 80.00
5.	Annual Permit for Jails/Prisons	
	- State fee	\$ 250.00
6.	Annual Permit for Bars/Lounges (Drink Service Only)	
	- State Fee	\$ 190.00
	- BCC resolution fee	<u>40.00</u>
	Total Annual Permit Fee	\$ 230.00
7.	Annual permit for Residential Facilities	
	- State fee	\$ 135.00
	- BCC resolution fee	<u>40.00</u>
	Total Annual Permit Fee	\$ 175.00
8.	Annual permit for Limited Food Service	
	- State fee	\$ 110.00
9.	Annual permit Other Food Service	
	- State fee	\$ 190.00
	- BCC resolution fee	<u>40.00</u>
	Total Annual Permit Fee	\$ 230.00
10.	Annual permit for Catering Service	
	- State fee	\$ 180.00
11.	Annual permit for Mobile Food Unit	
	- State fee	\$ 180.00
12.	Annual permit for Vending Machine dispensing Potentially Hazardous Food (PHF)	
	- State fee	\$ 85.00
13.	Annual permit for multiple food operations operating	

	in the same building	
	- State fee	\$ 300.00
14.	Plan Review For New Facilities	
	- State fee	\$ 40.00
	- BCC resolution fee	<u>35.00</u>
	Total Plan Review Fee for New Facilities . .	\$ 75.00
15.	Plan Review For Modifications Only	
	- State fee	\$ 40.00
	- BCC resolution fee	<u>10.00</u>
	Total Plan Review Fee for Modifications . . .	\$ 50.00
16.	Food Worker Training (per person)	
	- State fee	\$ 10.00
17.	Request for Inspection	
	- State fee	\$ 40.00
18.	Re-inspection Fee (no charge for first re-inspection)	
	- State fee	\$ 75.00
19.	Late fee (on permits paid after October 1)	
	- State fee	\$ 25.00
	- BCC resolution fee	<u>10.00</u>
	Total Late Fee	\$ 35.00
20.	Alcoholic Beverage Inspection Approval	
	- State fee	\$ 30.00
21.	Temporary event for Food Service establishment for Sponsor without an existing sanitation certificate (serving non-PHF for 4 or more days or serving PHF for any number of days)	
	- State fee	\$ 100.00
	- BCC resolution fee	<u>20.00</u>
	Total fee	\$ 120.00
22.	Temporary Event for Food Service establishment vendor or booth w/o existing sanitation certificate (if serving PHF and not licensed by a State agency for food service, serving non-PHF for 4 or more days, or currently State licensed for food service by another agency and serving PHF for 4 or more days)	
	- State fee	\$ 50.00

23. Temporary Event for Food Service establishment for Sponsor with an existing sanitation certificate serving Any type of food or w/o existing sanitation certificate and serving non-PHF for 3 days or less) for any number of days)
 - BCC resolution fee \$ 40.00

H. Onsite Sewage Treatment and Disposal Systems – OSTDS (Septic Tanks)
 No Proration (except OSTED Service – prorated quarterly)

1. Application fee – includes application and plan review for new systems (including holding tanks but not including new performance-based treatment systems).
 - State fee \$ 100.00
 - BCC resolution fee 15.00
 - \$ 115.00

2. Application and approval for existing system (does not include system inspection)
 - State fee \$ 35.00
 - BCC resolution fee 25.00
 - Total \$ 60.00

3. Application and Existing System evaluation for Repairs and modifications)/Inspection of existing system
 - State fee \$ 50.00

4. Application for permitting of a new Performance-Based Treatment System
 - State fee \$ 125.00

5. Site evaluation
 - State fee \$ 115.00

6. Site re-evaluation
 - State fee \$ 50.00

7. Permit for a new system or system repair
 - State fee \$ 55.00
 - State research and training surcharge fee 5.00
 - BCC resolution fee 135.00
 - Total \$ 195.00

8. Permit for modification of a system

	- State fee	\$ 55.00
	- BCC resolution fee	<u>135.00</u>
	Total	\$ 190.00
9.	Permit for holding tank (s)	
	- State Fee	\$ 55.00
	- State research fee	<u>5.00</u>
	Total	\$ 60.00
10.	Initial system inspection	
	- State fee	\$ 75.00
	- BCC resolution fee	<u>10.00</u>
		\$ 85.00
11.	Mound stabilization inspection fee	
	- BCC resolution fee	\$ 25.00
12.	Excavation inspection fee	
	- BCC resolution fee	\$ 10.00
13.	Re-inspection fee per each non-compliance re-inspection	
	- State fee	\$ 50.00
	- BCC resolution fee	<u>25.00</u>
	Total	\$ 75.00
14.	System abandonment permit (includes permit issuance and inspection)	
	- State fee.	\$ 50.00
	- BCC resolution fee	<u>20.00</u>
	Total	\$ 70.00
15.	Annual operating permit fee for systems in Industrial Manufacturing and equivalent areas, and for systems receiving commercial waste	
	- State fee	\$150.00
16.	Amendments or changes to the operating permit during the permit period per change or amendment	
	- State fee	\$ 50.00
17.	Aerobic treatment unit oper. Permit (every 2 years)	
	- State fee	\$ 100.00
	- BCC resolution fee	<u>50.00</u>
	Total	\$ 150.00

18.	Biennial operating permit fee for performance-based treatment systems. A prorated fee is to be charged beginning with second year of operation	
	- State fee	\$ 100.00
	- BCC resolution fee	<u>50.00</u>
	Total	\$ 150.00
19.	Review of application due to proposed amendments or changes after initial operating permit issuance for a performance-based treatment system	
	- State fee	\$ 75.00
20.	Septic tank manufacturer's inspection per year	
	- State fee	\$ 100.00
	- BCC resolution fee	<u>75.00</u>
	Total	\$ 175.00
21.	Septic disposal service permit (annual)	
	- State fee	\$ 75.00
	- BCC resolution fee	<u>100.00</u>
	Total	\$ 175.00
22.	Portable or temporary toilet service permit (annual)	
	- State fee	\$ 75.00
	- BCC resolution fee	<u>100.00</u>
	Total	\$ 175.00
23.	Additional charge per pump-out vehicle as it relates to items 20 and 21 above	
	- State fee	\$ 35.00
	- BCC resolution fee	<u>25.00</u>
	Total	\$ 60.00
24.	Septage stabilization facility inspection fee per year	
	- State fee	\$ 150.00
25.	Septage disposal site evaluation fee per year	
	- State fee	\$ 200.00
26.	Aerobic treatment unit maintenance entity annual permit	
	- State fee	\$ 25.00
27.	Variance application for a single family residence per each lot or building site (State variance)	
	- State fee	\$ 200.00
	- BCC resolution fee	<u>100.00</u>
	Total	\$ 300.00

28.	Variance application for a multi-family or commercial building per each building site (State variance)	
	- State fee	\$ 300.00
	- BCC resolution fee	<u>125.00</u>
	Total	\$ 425.00
29.	Block Density Review for Brevard County Code Requirements	
	- BCC resolution fee	\$ 90.00
30.	Land Development Application review fee	
	- BCC resolution fee	\$ 50.00
31.	Late Fees for Delinquent Onsite Sewage Operating Permits	
	- BCC resolution fee	\$ 35.00
32.	Scheduling Fee – Voluntary requests	
	- Pre-Scheduling of inspection times by appointment	
	- BCC resolution fee	\$ 30.00

I. **Drinking Water**

Fees are prorated on a quarterly basis

Except systems constructed on or after 01/01/1993 have no proration

1.	Public water system construction and operation permit fee – Limited use (First year)	
	- State fee	\$ 90.00
	- BCC resolution fee	<u>20.00</u>
	Total	\$ 110.00
2.	Public water system annual operation permit fee – Limited use (Second year and beyond or change of owner/business)	
	- State fee	\$ 90.00
	- BCC resolution fee	<u>20.00</u>
	Total	\$ 110.00
3.	Multi-Family Water System Construction Permit	
	- State fee	\$ 75.00
4.	Initial operating permit fee after March 31 of any year	
	- State fee	\$ 45.00
	- BCC resolution fee	<u>10.00</u>
	Total	\$ 55.00

5. Non-SDWA Lab Sample (Sample collection/Review of analytical results/Health risk interpretation):

Microbiological Sample Collection

- State fee	\$ 50.00
- BCC resolution fee	Lab cost + <u>10.00</u>
Total	Lab cost + \$ 60.00

Chemical Sample Collection

- State fee	\$ 60.00
- BCC resolution fee	Lab cost + <u>10.00</u>
Total	Lab cost + \$ 70.00

Combined Microbiological and Chemical Collection

- State fee	\$ 70.00
- BCC resolution fee	Lab cost + <u>10.00</u>
Total	Lab cost + \$ 80.00

6. Re-Inspection of Multi-family water system
(no charge for first re-inspection)

- State fee	\$ 40.00
- BCC resolution fee	<u>20.00</u>
Total	\$ 60.00

7. Re-inspection of Limited Use Public water system
(no charge for first re-inspection)

- State fee	\$ 40.00
- BCC resolution fee	<u>20.00</u>
Total	\$ 60.00

8. Delineated Area clearance fee

- State fee	\$ 50.00
-----------------------	----------

9. Limited use commercial Public Water system registration
or re-registration

- State fee	\$ 15.00
-----------------------	----------

10. Family Day Care establishment, Annual operating permit

- State fee	\$ 30.00
-----------------------	----------

11. Family Day Care establishment, Initial Operating
Permit fee after March 31

- State fee	\$ 15.00
-----------------------	----------

12. SDWA Lab Sample (Sample collection/Review of Analytical Results/Health risk interpretation):
 - Microbiological water sampling per site visit
 - BCC resolution fee Lab cost + \$ 50.00
 - Chemical water sampling per site visit
 - BCC resolution fee Lab cost + \$60.00
 - Combined Microbiological and Chemical Collection per site visit
 - BCC resolution fee Lab cost + \$70.00
13. Chemical sampling per site visit for delineated areas
 - BCC resolution fee Lab cost + \$ 60.00
14. Late Fee (on permits paid after October 1)
 - BCC resolution fee \$ 35.00

J. Miscellaneous Program Facilities
No Proration

1. Adult Entertainment fee (no bar)
 - BCC resolution fee \$ 35.00
2. Animal Care Facility permit fee
 - BCC resolution fee \$ 75.00
3. Animal Shelter permit fee
 - BCC resolution fee \$ 75.00
4. Other Public Building fee
 - BCC resolution fee \$ 40.00
5. Re-Inspection fee (no charge for first re-inspection)
 - BCC resolution fee \$ 60.00
6. Late Fee for Animal Care Facility
(on permits paid after expiration date)
 - BCC resolution fee \$ 35.00

K. Group Care Facilities

No Proration

1. Adult Congregate Living Facility fee
 - BCC resolution fee \$ 35.00
2. Foster Home fee
 - BCC resolution fee \$ 25.00
3. Intermediate Care Facility fee
 - BCC resolution fee \$ 35.00
4. Residential Facility (Private) fee
 - BCC resolution fee \$ 35.00
5. Re-Inspection fee (no charge for first re-inspection)
 - BCC resolution fee \$ 50.00

L. Well Construction Program – St. Johns River Water Management District

1. Public Well Construction permit (D.E.P. 62-555)
 - BCC resolution fee \$ 300.00
2. Public Well Construction, permit (D.O.H., Limited Use 64E-8)0.00
 - BCC resolution fee \$ 200.00
3. Private Residential Potable Well and Alternative Emergency
Use Well Construction Permit
 - BCC resolution fee \$ 150.00
4. Irrigation Well Construction Permit
 - BCC resolution fee \$ 75.00
5. Monitoring Well Construction Permits
 - BCC resolution fee (for one) \$ 50.00
 - BCC resolution fee (2 or more on one site/facility) . . . \$ 100.00
6. Well Abandonment Permit
 - BCC resolution fee \$ 35.00
7. Re-inspection or Reinvestigation of Complaint
 - BCC resolution fee \$ 50.00
8. Late Fee / No Application for Public Well Construction,
D.E.P. 62-555 (includes permit fee)
 - BCC resolution fee \$ 600.00
9. Late Fee / No Application for Public Well Construction,

D.O.H. Limited Use 64E-8 (includes permit fee)	
- BCC resolution fee	\$ 400.00
10. Late Fee / No Application for Portable Well Construction And Alternative Emergency Use Wells (includes permit fee)	
- BCC resolution fee	\$ 300.00
11. Late Fee / No Application for Irrigation Well Construction (includes permit fee)	
- BCC resolution fee	\$ 150.00
12. Late Fee / No Application for Monitoring Well Construction (1) (includes permit fee)	
- BCC resolution fee	\$ 100.00
13. Late Fee / No Application for Monitoring Well Construction (2 or more on one site/facility) (includes permit fee)	
- BCC resolution fee	\$ 200.00
14. Late Fee / No Application for Well Abandonment (includes permit fee)	
- BCC resolution fee	\$ 70.00
15. Drinking Water Bacteriological Test (not sampled by D.O.H)	
- BCC resolution fee	Lab cost
16. Well Variance Request	
- BCC resolution fee	\$ 150.00
17. Requested Site evaluation	
- BCC resolution fee	\$ 50.00
18. Emergency Well Permit	
- BCC resolution fee	\$ 25.00

M. Other Services

1. Review and revision of Plot Plan or Septic Plan for commercial, single family residence, mobile home installations or septic installs
 - BCC resolution fee \$ 30.00
2. Permit reviews for house decks, screen enclosures,

- glass rooms, car ports canopies, sheds, pools and
related structures
- BCC resolution fee \$ 30.00
3. Water to air (HVAC) plan review
- BCC resolution fee \$ 20.00
4. Copying of Public Records
- BCC resolution fee \$.25 per page

SECTION B. PRIMARY CARE SERVICES

A. Primary Care Services:

1. Acute/Episodic Illness - Primary care services will be charged on a fee-for-service basis using the current Medicare fee schedule for each service unless otherwise indicated. The fee will be derived by considering the type of visit, the client sliding fee group based on Federal OMB Guidelines, and the current Medicare rate. Medicaid insurance will be accepted as full payment.
2. Family Planning - The fee will be derived by considering the type of visit, the client sliding fee group based on Federal OMB Guidelines, and the current Medicare rate unless otherwise indicated. Medicaid insurance will be accepted as full payment.
3. Well Child Services - The fee will be derived by considering the client sliding fee group, which is calculated at eligibility determination, based on Federal OMB Guidelines. The fee group will be applied to the rate established by the Medicare program unless otherwise indicated. Medicaid insurance will be accepted as full payment.
4. Maternity Services - The fee will be derived by considering the client sliding fee group, which is calculated at eligibility determination, based on Federal OMB Guidelines. Clients who are presumed eligible will receive continued prenatal care through delivery and postpartum care. Eligible uninsured Prenatal care clients will be placed on a self-pay global maternity payment package. Medicaid insurance will be accepted as full payment.
5. Dental Services - The fee is based on the Medicare rate unless otherwise indicated. Brevard County residents between the ages of 4 -18 who do not have insurance will qualify for the Uninsured Pediatric Dental Care program. The Adult Indigent Dental Program is available for eligible adult visits.
6. Pharmacy – The Brevard County Health Department does not operate an in-house retail Pharmacy.
7. P.A.T.H. (Primary Access to Health) services, in collaboration with Space Coast Volunteers in Medicine, are available to indigent adults who are uninsured and whose income meets the eligibility guidelines. These services are available at specific locations during specific days and times on an appointment basis.

Flat Fee Services

Services that do not appear on the Medicaid fee schedule are assigned a flat fee. These services are itemized below:

1.	Initial/Annual Family Planning Package (Includes visit, contraception method and basic lab)	\$ 100.00
2.	Initial/Annual Family Planning Package (Includes visit, Condoms and basic lab)	\$ 40.00
3.	Supply Visit for Family Planning (Includes visit and contraception method)	\$ 50.00
4.	Pregnancy test and Counseling	\$ 25.00
5.	STD (Sexually Transmitted Diseases) screening w/ Urine Test	\$ 40.00
6.	STD (Sexually Transmitted Diseases) screening w/o Urine Test	\$ 30.00
7.	TB Screening Test and Assessment for pre-employment, continued employment or school/college/university entry requirement. This includes the screening assessment form (if indicated) or the Tuberculin (TB) skin test, with reading, Nurse counseling, education and follow up (if needed)	\$ 30.00
8.	Laboratory specimen collection draw fee (Lab Only Visits), per patient	\$ 12.00
9.	Tuberculosis (TB) Sputum Culture for suspected, confirmed or symptomatic contact or case	No Charge

10. International Travel, Adult and Non VFC Vaccinations

The charge is based upon the sum of a and b below:

- a. Vaccine administration, counseling and education fees
per shot, per person, per visit \$ 20.00
- b. Cost of vaccine (see list below)

11. Immunizations / Vaccinations

- a. Pneumococcal Vaccine (Pneumonia shot) \$ 123.00
(Includes vaccine administration fees)
Medicare will be accepted as full payment where applicable
- b. Influenza Vaccine (Flu shot) Cost plus vaccine admin fee
(Includes vaccine administration fees) \$30.00
Medicare will be accepted as full payment where applicable
- c. Hepatitis A - Adult (age 19+) Initial / Booster,
cost per each \$39.00
Vaccine administration fees 20.00
Total \$59.00
- d. Hepatitis B – Adult Initial / Booster, cost per each \$ 62.00
Vaccine administration fees 20.00
Total \$ 82.00
- e. Hepatitis A / B Twinrix, Recombination,
cost per each \$ 112.00
Vaccine administration fees. 20.00
Total \$ 132.00
- f. IM HIB for Adults, cost per each \$ 22.00
Vaccine administration fees 20.00
Total \$ 42.00
- g. Measles / Mumps / Rubella, cost per each \$76.00
Vaccine administration fees 20.00
Total \$96.00
- h. Meningococcal (Menactra/Menomune),
cost per each \$ 123.00

	Vaccine administration fees	<u>20.00</u>
	Total	\$ 143.00
i.	Polio, Injectable, cost per each	\$ 32.00
	Vaccine administration fees	<u>20.00</u>
	Total	\$ 52.00
j.	Tetanus (Td) (Decavac), cost per each	\$ 33.00
	Vaccine administration fees.	<u>20.00</u>
	Total	\$ 53.00
k.	TDAP (Adacel)	\$ 36.00
	Vaccine administration fees	<u>20.00</u>
	Total	\$ 56.00
l.	TDAP (Boostrix)	\$ 36.00
	Vaccine administration fees.	<u>20.00</u>
	Total	\$ 56.00
m.	Typhoid Fever, cost per each	\$70.00
	Vaccine administration fees	<u>20.00</u>
	Total	\$90.00
n.	Varicella, cost per each.	\$ 188.00
	Vaccine administration fees.	<u>20.00</u>
	Total	\$ 208.00
o.	Yellow Fever, cost per each	\$ 139.00
	Vaccine administration fees.	<u>20.00</u>
	Total	\$ 159.00
p.	Gama Stan (2 ml), cost for each	\$ 86.00
	Vaccine administration fees.	<u>20.00</u>
	Total	\$ 106.00
q.	H.I.B. (Haemophilus Influenzae Type B) for Adults cost per each	\$ 22.00
	Vaccine administration fees	<u>20.00</u>
	Total	\$ 42.00
r.	All other immunizations and available vaccines for adults provided at cost of vaccine plus	\$ 20.00 each
12.	Required Immunizations for eligible children up to age 18 - From VFC (Vaccine For Children) stock	No Charge

- | | | |
|-----|--|--------------|
| 13. | Global Maternity Package for eligible self-pay patients | |
| | Prenatal visits, labs, ultrasound | \$ 1,000.00 |
| | Delivery | 848.00 |
| | Post partum visit | <u>52.00</u> |
| | Total | \$ 1,900.00 |
| 14. | Class/Seminar attendance registration | |
| | Per person charge for non-Brevard CHD employees | |
| | - Cost of booklets given to each attendee plus | \$ 10.00 |

SECTION C - VITAL STATISTICS

- | | | |
|----|--|-------------|
| 1. | Birth Certificates: | |
| | - State fee | \$ 9.00 |
| | - Fee pursuant to BCC Resolution | <u>3.00</u> |
| | Total Fee for Birth Certificates | \$12.00 |
| 2. | Additional Copies of Birth Certificates when ordered
at the same time | |
| | - State fee | \$ 4.00 |
| | - Fee pursuant to BCC Resolution | <u>8.00</u> |
| | Total Fee for Additional Copies of Birth Certificates | \$ 12.00 |
| 3. | Death Certificates - Certified Copy | |
| | - State fee | \$5.00 |
| | - Fee pursuant to BCC Resolution | <u>4.00</u> |
| | Total Fee for Death Certificate | \$ 9.00 |
| 4. | Additional copies of Death Certificates when ordered
at the same time | |
| | a. State fee | \$ 4.00 |
| | b. Fee pursuant to BCC Resolution | <u>5.00</u> |
| | Total Fee for Additional Copies of Death Certificates | \$ 9.00 |
| 5. | On-line processing, overnight mail, expedite fee | |
| | - Fee pursuant to BCC Resolution | \$ 30.00 |
| 6. | Birth or Death Certificate protective covers | |
| | - Fee pursuant to BCC Resolution | \$ 2.00 |
| 7. | Notary Public Fee | |
| | - Fee pursuant to BCC Resolution | \$ 10.00 |

D. Records:

1. Copying of Medical Record (per one sided copy) 15 cents
2. Copying of Medical Record (per two sided copy) 20 cents
3. Certified copy of Medical Record, per page \$ 1.00
4. Copying of Public Record (per page) 25 cents

BE IT FURTHER RESOLVED that Resolution Number _____ and all other resolutions or parts of resolutions in conflict herewith by establishing fees inconsistent with those established herein, are hereby appealed. All fees established herein shall go into effect immediately.

DONE, ORDERED AND ADOPTED, in regular session, this day of October, 2021.

ATTEST:

BOARD OF COUNTY COMMISSIONERS
BREVARD COUNTY, FLORIDA

Rachel M. Sadoff
Clerk of the
Board of County Commissioners
of Brevard County, Florida

BY: _____
Rita Pritchett
Chair

Review for legal form and content

By: _____
Robin Rogers, Esq.
Assistant County Attorney

**CONTRACT BETWEEN
BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS
AND
STATE OF FLORIDA DEPARTMENT OF HEALTH
FOR OPERATION OF THE
BREVARD COUNTY HEALTH DEPARTMENT
CONTRACT YEAR 2021-2022**

This contract is made and entered into between the State of Florida, Department of Health ("State") and the Brevard County Board of County Commissioners ("County"), through their undersigned authorities, effective October 1, 2021.

RECITALS

A. Pursuant to Chapter 154, Florida Statutes, the intent of the legislature is to "promote, protect, maintain, and improve the health and safety of all citizens and visitors of this state through a system of coordinated county health department services."

B. County Health Departments were created throughout Florida to satisfy this legislative intent through "promotion of the public's health, the control and eradication of preventable diseases, and the provision of primary health care for special populations."

C. Brevard County Health Department ("CHD") is one of the created County Health Departments.

D. It is necessary for the parties hereto to enter into this contract in order to ensure coordination between the State and the County in the operation of the CHD.

NOW THEREFORE, in consideration of the mutual promises set forth herein, the sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. RECITALS. The parties mutually agree that the foregoing recitals are true and correct and incorporated herein by reference.

2. TERM. The parties mutually agree that this contract shall be effective from October 1, 2021, through September 30, 2022, or until a written contract replacing this contract is entered into between the parties, whichever is later, unless this contract is otherwise terminated pursuant to the termination provisions set forth in paragraph 8. below.

3. SERVICES MAINTAINED BY THE CHD. The parties mutually agree that the CHD shall provide those services as set forth on Part III of Attachment II hereof, in order to maintain the following three levels of service pursuant to section 154.01(2), Florida Statutes, as defined below:

a. "Environmental health services" are those services which are organized and operated to protect the health of the general public by monitoring and regulating activities in the environment which may contribute to the occurrence or transmission of disease.

Environmental health services shall be supported by available federal, state and local funds and shall include those services mandated on a state or federal level. Examples of environmental health services include, but are not limited to, food hygiene, safe drinking water supply, sewage and solid waste disposal, swimming pools, group care facilities, migrant labor camps, toxic material control, radiological health, and occupational health.

b. "Communicable disease control services" are those services which protect the health of the general public through the detection, control, and eradication of diseases which are transmitted primarily by human beings. Communicable disease services shall be supported by available federal, state, and local funds and shall include those services mandated on a state or federal level. Such services include, but are not limited to, epidemiology, sexually transmissible disease detection and control, HIV/AIDS, immunization, tuberculosis control and maintenance of vital statistics.

c. "Primary care services" are acute care and preventive services that are made available to well and sick persons who are unable to obtain such services due to lack of income or other barriers beyond their control. These services are provided to benefit individuals, improve the collective health of the public, and prevent and control the spread of disease. Primary health care services are provided at home, in group settings, or in clinics. These services shall be supported by available federal, state, and local funds and shall include services mandated on a state or federal level. Examples of primary health care services include, but are not limited to: first contact acute care services; chronic disease detection and treatment; maternal and child health services; family planning; nutrition; school health; supplemental food assistance for women, infants, and children; home health; and dental services.

4. FUNDING. The parties further agree that funding for the CHD will be handled as follows:

a. The funding to be provided by the parties and any other sources is set forth in Part II of Attachment II hereof. This funding will be used as shown in Part I of Attachment II.

- i. The State's appropriated responsibility (*direct contribution excluding any state fees, Medicaid contributions or any other funds not listed on the Schedule C*) as provided in Attachment II, Part II is an amount not to exceed \$ 9,710,474 (*State General Revenue, State Funds, Other State Funds and Federal Funds listed on the Schedule C*). The State's obligation to pay under this contract is contingent upon an annual appropriation by the Legislature.
- ii. The County's appropriated responsibility (*direct contribution excluding any fees, other cash or local contributions*) as provided in Attachment II, Part II is an amount not to exceed \$467,415 (*amount listed under the "Board of County Commissioners Annual Appropriations section of the revenue attachment*).

b. Overall expenditures will not exceed available funding or budget authority, whichever is less, (either current year or from surplus trust funds) in any service category. Unless requested otherwise, any surplus at the end of the term of this contract in the County Health

Department Trust Fund that is attributed to the CHD shall be carried forward to the next contract period.

c. Either party may establish service fees as allowed by law to fund activities of the CHD. Where applicable, such fees shall be automatically adjusted to at least the Medicaid fee schedule.

d. Either party may increase or decrease funding of this contract during the term hereof by notifying the other party in writing of the amount and purpose for the change in funding. If the State initiates the increase/decrease, the CHD will revise the Attachment II and send a copy of the revised pages to the County and the Department of Health, Office of Budget and Revenue Management. If the County initiates the increase/decrease, the County shall notify the CHD. The CHD will then revise the Attachment II and send a copy of the revised pages to the Department of Health, Office of Budget and Revenue Management.

e. The name and address of the official payee to whom payments shall be made is:

County Health Department Trust Fund
Brevard County
2565 Judge Fran Jamieson Way
Viera, FL 32940

5. CHD DIRECTOR/ADMINISTRATOR. Both parties agree the director/administrator of the CHD shall be a State employee or under contract with the State and will be under the day-to-day direction of the Deputy Secretary for County Health Systems. The director/administrator shall be selected by the State with the concurrence of the County. The director/administrator of the CHD shall ensure that non-categorical sources of funding are used to fulfill public health priorities in the community and the Long Range Program Plan.

6. ADMINISTRATIVE POLICIES AND PROCEDURES. The parties hereto agree that the following standards should apply in the operation of the CHD:

a. The CHD and its personnel shall follow all State policies and procedures, except to the extent permitted for the use of County purchasing procedures as set forth in subparagraph b., below. All CHD employees shall be State or State-contract personnel subject to State personnel rules and procedures. Employees will report time in the Health Management System compatible format by program component as specified by the State.

b. The CHD shall comply with all applicable provisions of federal and state laws and regulations relating to its operation with the exception that the use of County purchasing procedures shall be allowed when it will result in a better price or service and no statewide Department of Health purchasing contract has been implemented for those goods or services. In such cases, the CHD director/administrator must sign a justification therefore, and all County purchasing procedures must be followed in their entirety, and such compliance shall be documented. Such justification and compliance documentation shall be maintained by the CHD in accordance with the terms of this contract. State procedures must be followed for all leases on facilities not enumerated in Attachment IV.

c. The CHD shall maintain books, records and documents in accordance with the Generally Accepted Accounting Principles (GAAP), as promulgated by the Governmental Accounting Standards Board (GASB), and the requirements of federal or state law. These records shall be maintained as required by the Department of Health Policies and Procedures for Records Management and shall be open for inspection at any time by the parties and the public, except for those records that are not otherwise subject to disclosure as provided by law which are subject to the confidentiality provisions of paragraphs 6.i. and 6.k., below. Books, records and documents must be adequate to allow the CHD to comply with the following reporting requirements:

- i.* The revenue and expenditure requirements in the Florida Accounting Information Resource (FLAIR) System;
- ii.* The client registration and services reporting requirements of the minimum data set as specified in the most current version of the Client Information System/Health Management Component Pamphlet;
- iii.* Financial procedures specified in the Department of Health's Accounting Procedures Manuals, Accounting memoranda, and Comptroller's memoranda;
- iv.* The CHD is responsible for assuring that all contracts with service providers include provisions that all subcontracted services be reported to the CHD in a manner consistent with the client registration and service reporting requirements of the minimum data set as specified in the Client Information System/Health Management Component Pamphlet.

d. All funds for the CHD shall be deposited in the County Health Department Trust Fund maintained by the state treasurer. These funds shall be accounted for separately from funds deposited for other CHDs and shall be used only for public health purposes in Brevard County.

e. That any surplus/deficit funds, including fees or accrued interest, remaining in the County Health Department Trust Fund account at the end of the contract year shall be credited/debited to the State or County, as appropriate, based on the funds contributed by each and the expenditures incurred by each. Expenditures will be charged to the program accounts by State and County based on the ratio of planned expenditures in this contract and funding from all sources is credited to the program accounts by State and County. The equity share of any surplus/deficit funds accruing to the State and County is determined each month and at contract year-end. Surplus funds may be applied toward the funding requirements of each participating governmental entity in the following year. However, in each such case, all surplus funds, including fees and accrued interest, shall remain in the trust fund until accounted for in a manner which clearly illustrates the amount which has been credited to each participating governmental entity. The planned use of surplus funds shall be reflected in Attachment II, Part I of this contract, with special capital projects explained in Attachment V.

f. There shall be no transfer of funds between the three levels of services without a contract amendment unless the CHD director/administrator determines that an emergency exists wherein a time delay would endanger the public's health and the Deputy Secretary for County Health Systems has approved the transfer. The Deputy Secretary for County Health Systems shall forward written evidence of this approval to the CHD within 30 days after an emergency transfer.

g. The CHD may execute subcontracts for services necessary to enable the CHD to carry out the programs specified in this contract. Any such subcontract shall include all aforementioned audit and record keeping requirements.

h. At the request of either party, an audit may be conducted by an independent CPA on the financial records of the CHD and the results made available to the parties within 180 days after the close of the CHD fiscal year. This audit will follow requirements contained in OMB Circular A-133 and may be in conjunction with audits performed by County government. If audit exceptions are found, then the director/administrator of the CHD will prepare a corrective action plan and a copy of that plan and monthly status reports will be furnished to the contract managers for the parties.

i. The CHD shall not use or disclose any information concerning a recipient of services except as allowed by federal or state law or policy.

j. The CHD shall retain all client records, financial records, supporting documents, statistical records, and any other documents (including electronic storage media) pertinent to this contract for a period of five (5) years after termination of this contract. If an audit has been initiated and audit findings have not been resolved at the end of five (5) years, the records shall be retained until resolution of the audit findings.

k. The CHD shall maintain confidentiality of all data, files, and records that are confidential under the law or are otherwise exempted from disclosure as a public record under Florida law. The CHD shall implement procedures to ensure the protection and confidentiality of all such records and shall comply with sections 384.29, 381.004, 392.65 and 456.057, Florida Statutes, and all other state and federal laws regarding confidentiality. All confidentiality procedures implemented by the CHD shall be consistent with the Department of Health Information Security Policies, Protocols, and Procedures. The CHD shall further adhere to any amendments to the State's security requirements and shall comply with any applicable professional standards of practice with respect to client confidentiality.

l. The CHD shall abide by all State policies and procedures, which by this reference are incorporated herein as standards to be followed by the CHD, except as otherwise permitted for some purchases using County procedures pursuant to paragraph 6.b.

m. The CHD shall establish a system through which applicants for services and current clients may present grievances over denial, modification or termination of services. The CHD will advise applicants of the right to appeal a denial or exclusion from services, of failure to

take account of a client's choice of service, and of his/her right to a fair hearing to the final governing authority of the agency. Specific references to existing laws, rules or program manuals are included in Attachment I of this contract.

n. The CHD shall comply with the provisions contained in the Civil Rights Certificate, hereby incorporated into this contract as Attachment III.

o. The CHD shall submit quarterly reports to the County that shall include at least the following:

- i. The DE385L1 Contract Management Variance Report and the DE580L1 Analysis of Fund Equities Report;
- ii. A written explanation to the County of service variances reflected in the year end DE385L1 report if the variance exceeds or falls below 25 percent of the planned expenditure amount for the contract year. However, if the amount of the service specific variance between actual and planned expenditures does not exceed three percent of the total planned expenditures for the level of service in which the type of service is included, a variance explanation is not required. A copy of the written explanation shall be sent to the Department of Health, Office of Budget and Revenue Management.

p. The dates for the submission of quarterly reports to the County shall be as follows unless the generation and distribution of reports is delayed due to circumstances beyond the CHD's control:

- i. March 1, 2022 for the report period October 1, 2021 through December 31, 2021;
- ii. June 1, 2022 for the report period October 1, 2021 through March 31, 2022;
- iii. September 1, 2022 for the report period October 1, 2021 through June 30, 2022; and
- iv. December 1, 2022 for the report period October 1, 2021 through September 30, 2022.

7. FACILITIES AND EQUIPMENT. The parties mutually agree that:

a. CHD facilities shall be provided as specified in Attachment IV to this contract and the County shall own the facilities used by the CHD unless otherwise provided in Attachment IV.

b. The County shall ensure adequate fire and casualty insurance coverage for County-owned CHD offices and buildings and for all furnishings and equipment in CHD offices through either a self-insurance program or insurance purchased by the County.

c. All vehicles will be transferred to the ownership of the County and registered as County vehicles. The County shall ensure insurance coverage for these vehicles is available through either a self-insurance program or insurance purchased by the County. All vehicles will be used solely for CHD operations. Vehicles purchased through the County Health Department Trust Fund shall be sold at fair market value when they are no longer needed by the CHD and the proceeds returned to the County Health Department Trust Fund.

8. TERMINATION.

a. Termination at Will. This contract may be terminated by either party without cause upon no less than one-hundred eighty (180) calendar days notice in writing to the other party unless a lesser time is mutually agreed upon in writing by both parties. Said notice shall be delivered by certified mail, return receipt requested, or in person to the other party's contract manager with proof of delivery.

b. Termination Because of Lack of Funds. In the event funds to finance this contract become unavailable, either party may terminate this contract upon no less than twenty-four (24) hours notice. Said notice shall be delivered by certified mail, return receipt requested, or in person to the other party's contract manager with proof of delivery.

c. Termination for Breach. This contract may be terminated by one party, upon no less than thirty (30) days notice, because of the other party's failure to perform an obligation hereunder. Said notice shall be delivered by certified mail, return receipt requested, or in person to the other party's contract manager with proof of delivery. Waiver of breach of any provisions of this contract shall not be deemed to be a waiver of any other breach and shall not be construed to be a modification of the terms of this contract.

9. MISCELLANEOUS. The parties further agree:

a. Availability of Funds. If this contract, any renewal hereof, or any term, performance or payment hereunder, extends beyond the fiscal year beginning July 1, 2022, it is agreed that the performance and payment under this contract are contingent upon an annual appropriation by the Legislature, in accordance with section 287.0582, Florida Statutes.

b. Contract Managers. The name and address of the contract managers for the parties under this contract are as follows:

For the State:

Maria Stahl D.N.P.
Name
Administrator/Health Officer
Title
2565 Judge Fran Jamieson Way

Viera, Florida 32940
Address

For the County:

Frank Abbate
Name
County Manager
Title
2725 Judge Fran Jamieson Way

Viera, Florida 32940
Address

321.454.7112
Telephone

321.633.2001
Telephone

If different contract managers are designated after execution of this contract, the name, address and telephone number of the new representative shall be furnished in writing to the other parties and attached to originals of this contract.

c. Captions. The captions and headings contained in this contract are for the convenience of the parties only and do not in any way modify, amplify, or give additional notice of the provisions hereof.

In WITNESS THEREOF, the parties hereto have caused this 22 page contract, with its attachments as referenced, including Attachment I (two pages), Attachment II (7 pages), Attachment III (1 pages), Attachment IV (2 pages), and Attachment V (2 pages), to be executed by their undersigned officials as duly authorized effective the 1st day of October, 2021.

**BOARD OF COUNTY COMMISSIONERS
FOR BREVARD COUNTY**

**STATE OF FLORIDA
DEPARTMENT OF HEALTH**

SIGNED BY: _____

SIGNED BY: _____

NAME: Rita Pritchett

NAME: _____

TITLE: Chair

TITLE: State Surgeon General

DATE: _____

DATE: _____

ATTESTED TO:

SIGNED BY: _____

SIGNED BY: _____

NAME: Rachel M. Sadoff

NAME: Maria Stahl D.N.P., R.N.

TITLE: Clerk

TITLE: CHD Director/Administrator

DATE: _____

DATE: _____

Reviewed for Legal form and content

By: _____
Robin Rogers, Esq.
Assistant County Attorney



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.13.

10/12/2021

Subject:

RESOLUTION RE: Approving a loan for the Titusville-Cocoa Airport Authority from Truist Bank

Fiscal Impact:

None

Dept/Office:

TITUSVILLE-COCOA AIRPORT AUTHORITY

Requested Action:

Approve a loan for the Titusville-Cocoa Airport Authority from Truist Bank pursuant to a Revolving Line of Credit Agreement in the principal amount not to exceed \$1,500,000 at any one time.

Summary Explanation and Background:

The Authority intends to enter a revolving line of credit arrangement with Truist Bank to provide the Authority with working capital in support of ongoing capital projects at the airport. To evidence the line of credit, the Authority and Truist Bank will enter into a Revolving Line of Credit Agreement pursuant to which the Authority will be able to borrow funds from time to time to finance various capital projects at the airport. There may never be more than \$1,500,000 principal amount outstanding under the line of credit at any one time. The County is not liable for repaying any amounts due under the line. The Authority intends to repay amounts due under the line from legally available revenues of the Authority and grant proceeds. Pursuant to the special act creating the Authority, Chapter 2003-361, Laws of Florida, 2003, County approval is required for the line of credit.

Steve Miller, the County's bond counsel from Nabors, Giblin & Nickerson has reviewed and opines that from the County's standpoint, the documentation adequately provides that neither the County nor any of the elected officials or staff of the County will have any obligation or liability, financial or otherwise, with respect to the line of credit. Jay Glover, the County's financial advisor from PFM, has reviewed and confirmed that the proposed issuance of the line of credit will not have any negative impact on the County.

It is respectfully requested that the Board of County Commissioners approve the attached Resolution.

Contact for this matter is: Kevin Daugherty, AAE, Executive Director; Titusville-Cocoa Airport Authority; (321) 267-8780 x203

Clerk to the Board Instructions:

Return one (1) original of the signed Resolution to the County Attorney's Office

RESOLUTION NO. _____

A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA APPROVING THE ISSUANCE BY THE TITUSVILLE-COCOA AIRPORT AUTHORITY OF A TAXABLE REVOLVING LINE OF CREDIT REVENUE NOTE IN A PRINCIPAL AMOUNT NOT IN EXCESS OF \$1,500,000 TO PROVIDE WORKING CAPITAL IN SUPPORT OF VARIOUS AIRPORT PROJECTS; PROVIDING OTHER DETAILS AND AN EFFECTIVE DATE.

WHEREAS, the Titusville-Cocoa Airport Authority (the "Authority") was created by Chapter 2003-361, Laws of Florida (the "Act"); and

WHEREAS, six of the seven members of the Authority are appointed by members of the Board of County Commissioners of Brevard County, Florida (the "Board") and all of the airports and other facilities owned and administered by the Authority are located in Brevard County; and

WHEREAS, pursuant to the terms of the Act, the Board is required to approve the issuance of indebtedness by the Authority, and the Authority desires to issue its Taxable Revolving Line of Credit Revenue Note, Series 2021, as a revolving line of credit in a principal amount not to be outstanding at any time in excess of \$1,500,000 (the "Note") pursuant to a Revolving Line of Credit Agreement in substantially the form attached as Exhibit A (the "Agreement") in order to provide working capital for the acquisition, construction, reconstruction, improvement, extension, enlargement or equipment of the airport facilities of the Authority; and

WHEREAS, the Board, in accordance with the requirements of the Act, desires to approve the issuance by the Authority of the Note;

NOW, THEREFORE, BE IT RESOLVED by the Board that:

SECTION 1. Authority. This Resolution is adopted pursuant to the laws of the State of Florida, including, in particular, the Act and other applicable provisions of law.

SECTION 2. Approval of Note. The issuance by the Authority of the Note pursuant to the Agreement, in a principal amount not to be outstanding at any time in excess of \$1,500,000 to provide working capital in support of ongoing projects of the Authority, is hereby approved pursuant to and in accordance with the Act.

SECTION 3. Limitation on Approval. The approval given herein shall not be construed as an endorsement of the creditworthiness of the Authority or a recommendation to any prospective purchaser to purchase the Note or approval of any necessary zoning or rezoning applications or approval or acquiescence to the alteration of existing zoning or land use nor approval for any other regulatory permits relating to the Note or the projects to be financed or refinance thereby, and the Board shall not be construed by reason of its adoption of this Resolution to make or grant any such endorsement, recommendation or approval. Further,

the approval by the Board of the issuance of the Note by the Authority shall not be construed as an opinion or determination by the Board of the validity or enforceability of the Note and shall not be construed to obligate Brevard County, Florida to incur any liability, pecuniary or otherwise, in connection with the issuance of the Note.

Neither the Note nor the loan agreement entered into in connection therewith shall constitute an obligation or indebtedness of Brevard County within the meaning of the Constitution or the laws of Florida. The Note and the interest payable thereon do not constitute either pledge of the full faith and credit of Brevard County or a lien on any revenues or property of Brevard County and is payable solely from revenues of the Authority, to the extent and in the manner provided in the Note and the Agreement entered into in connection therewith.

SECTION 4. Effective Date. This Resolution shall take effect immediately upon its passage.

PASSED AND ADOPTED this ____ day of _____, 2021.

**BOARD OF COUNTY COMMISSIONERS OF
BREVARD COUNTY, FLORIDA**

(SEAL)

By: _____
Rita Pritchett, Chair

ATTEST:

By: _____
Rachel Sadoff,
Clerk of the Circuit Court and
Ex-Officio Clerk to the Board of
County Commissioners of Brevard
County, Florida

#150204419_v5 622301.00231

EXHIBIT A

REVOLVING LINE OF CREDIT AGREEMENT

This REVOLVING LINE OF CREDIT AGREEMENT (the "Agreement") is made and entered into as of _____, 2021, and is by and between **TITUSVILLE-COCOA AIRPORT AUTHORITY**, a public body corporate and politic of the State of Florida, and its successors and assigns (the "Issuer"), and **TRUIST BANK**, and its successors and assigns, as lender (the "Lender").

The parties hereto, intending to be legally bound hereby and in consideration of the mutual covenants hereinafter contained, DO HEREBY AGREE as follows:

ARTICLE I DEFINITION OF TERMS

Section 1.01 Definitions. The words and terms used in capitalized form in this Agreement shall have the meanings as set forth in the recitals above and the following words and terms as used in this Agreement shall have the following meanings:

"Act" means the Constitution of the State of Florida, Chapter 2003-361, Laws of Florida, to the extent applicable, Chapter 189, Florida Statutes, and other applicable provisions of law.

"Advance" means a borrowing of money under the Note, pursuant to Section 5.03 hereof.

"Agreement" means this Revolving Line of Credit Agreement and any and all modifications, alterations, amendments and supplements hereto made in accordance with the provisions hereof.

"Annual Budget" means the budget or budgets, as amended and supplemented from time to time, prepared by the Issuer for each Fiscal Year in accordance with the laws of the State of Florida.

"Authorized Officer" means the **[Executive Director, Chief Executive Officer or Chief Financial Officer]** of the Issuer.

"Available Commitment Amount" shall mean the difference between the Maximum Commitment Amount and the Loan.

"Business Day" means any day except any Saturday or Sunday or day on which the Principal Office of the Lender is lawfully closed.

"Consistent Basis" means, in reference to the application of GAAP, that the accounting principles observed in the period referred to are comparable in all material respects to those applied in the preceding period, except as to any changes consented to by the Lender.

"Debt" means (i) all obligations of the Issuer for borrowed money or evidenced by bonds, debentures, notes or other similar instruments; (ii) all obligations of the Issuer to pay the deferred purchase price of property or services, except trade accounts payable under normal trade terms and which arise in the ordinary course of business; and (iii) all obligations of the Issuer under capitalized leases or other lease purchase financing.

"Debt Service Fund" means the Titusville-Cocoa Airport Authority Revolving Line of Credit Note, Series 2021 Debt Service Fund, established pursuant to Section 3.09 herein.

"Default Rate" shall mean the lesser of 18% per annum and the maximum rate permitted by law.

"Event of Default" means an event of default specified in Article VI of this Agreement.

"Final Maturity Date" means _____, 2022, or such later date which this Agreement may be extended or renewed in the sole discretion of the Lender by written notice from the Lender to the Issuer.

"Fiscal Year" means the period commencing on October 1 of each year and ending on the succeeding September 30, or such other period of twelve consecutive months as may hereafter be designated as the fiscal year of the Issuer by general law.

"GAAP" means generally accepted accounting principles as from time to time in effect that applied on a Consistent Basis.

"Governmental Authority" means any nation or government, any state or other political subdivision thereof, and any entity exercising executive, legislative, judicial, regulatory or administrative functions of or pertaining to government.

"Investment Obligations" means (i) investments permitted for units of local governments under Section 218.415(17), Florida Statutes, as amended, and (ii) to the extent permitted by law such other investments permitted by the Lender.

"Loan" means the outstanding principal amount of the Note issued hereunder.

"Loan Documents" means this Agreement and the Note, including Addendum A attached thereto.

"Maximum Commitment Amount" means, for any day, \$1,500,000, and as the same may be hereafter modified in accordance with the terms of this Agreement.

"Note" means the Issuer's Taxable Revolving Line of Credit Revenue Note, Series 2021 in the form attached hereto as Attachment "A."

"Notice Address" means,

As to the Issuer:	Titusville-Cocoa Airport Authority 355 Golden Knights Boulevard Titusville, Florida 32780
-------------------	---

As to the Lender:	Truist Bank Attn: Brian S. Orth, Senior Vice President 333 S. Garland Avenue, 17th Floor Orlando, Florida 32801
-------------------	--

or to such other address as either party may have specified in writing to the other using the procedures specified in Section 7.06.

"Operating Expenses" means the current expenses, paid or accrued, of operation, maintenance, and ordinary current repairs of the System, including without limitation, administrative expenses, insurance premiums, labor, rental costs, the cost of materials and supplies used for current operations, charges for the accumulation of appropriate reserves not recurring monthly but which are reasonably expected to be incurred under the current Annual Budget relating to the operation of the System, and other reasonable expenses relating to the operation and maintenance of the System.

"Operation and Maintenance Fund" means the Titusville-Cocoa Airport Authority Revolving Line of Credit Note, Series 2021 Operation and Maintenance Fund established pursuant to Section 3.09 hereof.

"Person" means an individual, a corporation, a partnership, an association, a joint stock company, a joint venture, a limited liability company, a trust, any unincorporated organization or governmental or judicial entity.

"Pledged Funds" means collectively (i) the Revenues, and (ii) all funds on deposit in any of the Funds created hereunder (including all investment securities and deposits therein) and all investment earnings on any funds and accounts created hereby.

"Principal Office" means, with respect to the Lender, the office located at 333 S. Garland Avenue, 17th Floor, Orlando, Florida 32801, or such other office as the Lender may designate to the Issuer in writing.

"Project" means working capital in support of the acquisition, construction, reconstruction, improvement, extension, enlargement or equipment of the airport facilities of the Issuer.

"Revenue Fund" means the Titusville-Cocoa Airport Authority Revolving Line of Credit Note, Series 2021 Revenue Fund established pursuant to Section 3.09 hereof.

"Revenues" means all income, rates, fees, rentals, and other charges, income and earnings, including any income from the investment of funds as herein provided or contemplated, received by or attributable to or accruing to the Issuer from the ownership or operation of the System.

"State" means the State of Florida.

"System" means the airports aviation and other facilities, including, without limitation, parking and storage facilities, owned, operated or maintained by the Issuer, together with any and all improvements, extensions and additions thereto hereafter constructed or acquired, together with all land or interests therein, including plants, buildings, machinery, franchises, fixtures, equipment and all property, real or personal, tangible or intangible, now or hereafter used in connection therewith.

Section 1.02 Titles and Headings. The titles and headings of the articles and sections of this Agreement have been inserted for convenience of reference only and are not to be

considered a part hereof, shall not in any way modify or restrict any of the terms and provisions hereof, and shall not be considered or given any effect in construing this Agreement or any provision hereof or in ascertaining intent, if any question of intent should arise.

ARTICLE II REPRESENTATIONS OF ISSUER

The Issuer represents and warrants to the Lender, which representations and warranties shall be deemed made on the date hereof, that:

Section 2.01 Powers of Issuer. The Issuer is an independent special district and a public body corporate and politic, duly organized and validly existing under the laws of the State. The Issuer has the power under the Act to borrow the Maximum Commitment Amount provided for in this Agreement, to execute and deliver the Loan Documents, to own and operate the System, to collect the Revenues and to secure this Agreement and the Note in the manner contemplated hereby and to perform and observe all the terms and conditions of the Loan Documents on its part to be performed and observed and to carry out and consummate all other transactions contemplated hereby, and the Issuer has complied and will comply with all provisions of applicable law in all material matters relating to such transactions. The Issuer may lawfully borrow funds hereunder in order to provide funds to finance the Project, and to pay the costs of issuance of the Note.

The Project and all of the facilities being refinanced with proceeds of the Note serve a paramount public purpose and are each necessary, useful or appropriate to one or more governmental purposes of the Issuer and will at all times perform an essential governmental function, and the financing of the Project and the refinancing of such facilities with proceeds of the Note are necessary and appropriate for the purposes of the Issuer and in accordance with the Act.

Section 2.02 Authorization of Loan. The Issuer had, has, or will have on the date of the Note and at all relevant times, full legal right, power and authority to execute and deliver the Loan Documents, to issue the Note, and to carry out and consummate all other transactions contemplated hereby, and the Issuer has complied and will comply with all provisions of applicable law in all material matters relating to such transactions. The Issuer has duly authorized the borrowing of the Maximum Commitment Amount provided for in this Agreement, the execution and delivery of this Agreement, and the issuance and delivery of the Note to the Lender, and to that end the Issuer warrants that it will, subject to the terms hereof and of the Note, take all action and do all things which it is authorized by law to take and to do in order to fulfill all covenants on its part to be performed and to provide for and to assure payment of the Note. The Note has been duly authorized, executed, issued and delivered to the Lender and constitutes the legal, valid and binding obligation of the Issuer enforceable in accordance with the terms thereof and the terms hereof, and is entitled to the benefits and security of this Agreement, subject to the provisions of the bankruptcy laws of the United States of America and to other applicable bankruptcy, insolvency, reorganization, moratorium or similar laws relating to or affecting creditors' rights, heretofore or hereinafter enacted, to the extent constitutionally applicable, and provided that its enforcement may also be subject to equitable principles that may affect remedies or other equitable relief, or to the exercise of judicial discretion in appropriate cases. All approvals, consents, and orders of and filings with any Governmental Authority or agency which would constitute a condition precedent to the issuance of the Note or

the execution and delivery of or the performance by the Issuer of its obligations under this Agreement and the Note have been obtained or made and any consents, approvals, and orders to be received or filings so made are in full force and effect. NOTWITHSTANDING THE FOREGOING, HOWEVER, OR ANYTHING ELSE HEREIN OR IN THE NOTE TO THE CONTRARY, NEITHER THIS AGREEMENT NOR THE NOTE SHALL CONSTITUTE A GENERAL OBLIGATION OR A PLEDGE OF THE FULL FAITH AND CREDIT OR THE TAXING POWER OF THE ISSUER, THE STATE OF FLORIDA OR ANY POLITICAL SUBDIVISION THEREOF WITHIN THE MEANING OF ANY CONSTITUTIONAL, LEGISLATIVE OR CHARTER PROVISION OR LIMITATION, BUT SHALL BE PAYABLE SOLELY FROM THE PLEDGED FUNDS IN THE MANNER AND TO THE EXTENT PROVIDED HEREIN. No holder or owner of the Note shall ever have the right, directly or indirectly, to require or compel the exercise of the ad valorem taxing power of the Issuer, the State of Florida or any political subdivision of the State of Florida or taxation in any form on any real or personal property for any purpose, including, without limitation, for the payment of debt service with respect thereto, or to maintain or continue any activities of the Issuer which generate Revenues, nor shall any holder or owner of the Note be entitled to payment of such principal and interest from any other funds of the Issuer other than the Pledged Funds, all in the manner and to the extent herein provided.

Section 2.03 No Violation of Law or Contract. The Issuer is not in default in any material respect under any agreement or other instrument to which it is a party or by which it may be bound, the breach of which could result in a material and adverse impact on the financial condition of the Issuer or the ability of the Issuer to perform its obligations hereunder and under the Note. The making and performing by the Issuer of this Agreement and the Note will not violate any applicable provision of law, and will not result in a material breach of any of the terms of any agreement or instrument to which the Issuer is a party or by which the Issuer is bound, the breach of which could result in a material and adverse impact on the financial condition of the Issuer or the ability of the Issuer to perform its obligations hereunder and under the Note.

Section 2.04 Pending or Threatened Litigation. There are no actions or proceedings pending against the Issuer or affecting the Issuer or, to the knowledge of the Issuer, threatened, which, either in any case or in the aggregate, might result in any material adverse change in the financial condition of the Issuer, or which questions the validity of any of the Loan Documents or of any action taken or to be taken in connection with the transactions contemplated hereby or thereby.

Section 2.05 Financial Condition. The financial statements (which include statements of financial position, activities and cash flows with all supporting schedules) of the Issuer for the Fiscal Year ended as of September 30, 2020, copies of which have been furnished to the Lender, are correct, complete and fairly present the financial condition of the Issuer as of the date thereof, and the results of its operations for such Fiscal Year. The Issuer has no material direct or contingent liabilities as of the date of this Agreement which are not provided for or reflected in such financial statements, or referred to in notes thereto. All such financial statements have been prepared in accordance with GAAP applied on a Consistent Basis maintained throughout the periods involved. There has been no material adverse change in the business, properties or conditions, financial or otherwise, of the Issuer since the dates of such financial statements.

Section 2.06 No Immunity from Jurisdiction. The Issuer has no immunity from jurisdiction of any court of competent jurisdiction or from process or suit therein which could be asserted in any action to enforce the obligations of the Issuer under this Agreement or the Note, or from the rendition, execution or enforcement of any judgment therein.

Section 2.07 No Untrue Statements. Neither this Agreement nor any reports, schedules, certificates, agreements or instruments heretofore or simultaneously with the execution of this Agreement delivered to the Lender by the Issuer in connection with the Loan contains any material misrepresentation or untrue statement of fact or omits to state any material fact necessary to make this Agreement or any such reports, schedules, certificates or instruments not misleading. The representations and warranties of the Issuer in each of the Loan Documents are true and correct in all material respects on the date hereof and are true and correct as of the date made, if earlier.

Section 2.08 Changes in Law, Etc. To the Issuer's knowledge, there are no proposed or pending changes in any laws of the State or the United States of America which would have a material adverse effect on the ability of the Issuer to perform any of its obligations under any of the Loan Documents.

Section 2.09 Outstanding Debt. Upon the issuance of the Note there will be no other Debt outstanding that is secured by a pledge of the Pledged Funds.

Section 2.10 Solvency. The Issuer is now, and after giving effect hereto and to the Note, will be solvent.

Section 2.11 Pledged Funds. The Issuer currently receives the Revenues and is lawfully entitled to pledge the Pledged Funds to pay the principal of and interest on the Note when due. The Pledged Funds are estimated to be sufficient to timely pay the principal of and interest on the Note and to make all other payments required to be made hereunder and under the Note for such Pledged Funds. Upon the issuance of the Note the Pledged Funds will not be pledged or encumbered in any manner.

ARTICLE III COVENANTS OF THE ISSUER

Section 3.01 Affirmative Covenants. For so long as any of the principal amount of or interest or any redemption or prepayment premium on the Note is outstanding or any duty or obligation of the Issuer hereunder or under the Note remains unpaid or unperformed, the Issuer covenants to the Lender as follows:

(a) Payment. The Issuer shall pay the principal of and the interest or any redemption or prepayment premium on the Note at the time and place and in the manner provided herein and in the Note but solely from the Pledged Funds.

(b) Use of Proceeds. Proceeds from the Note will be used only to pay the costs of the Project and to pay the costs of issuance of the Note.

(c) Notice of Defaults. The Issuer shall promptly, and in any event within three (3) Business Days after an officer of the Issuer obtains knowledge thereof, notify the Lender in writing at its Notice Address upon the happening, occurrence, or existence of (1) the occurrence

of any event which constitutes an Event of Default as defined herein, and (2) any litigation or governmental proceeding pending against the Issuer in excess of \$10,000, and shall provide the Lender, together with such written notice, a detailed statement by a responsible officer of the Issuer of all relevant facts and the action being taken or proposed to be taken by the Issuer with respect thereto.

(d) Maintenance of Existence. The Issuer will take all action necessary to maintain its existence until all amounts due and owing from the Issuer to the Lender under this Agreement and the Note have been paid in full.

(e) Records. The Issuer agrees that any and all records of the Issuer with respect to the Loan shall be open to inspection by the Lender or its representatives at all reasonable times at the offices the Issuer.

(f) Insurance. The Issuer will make adequate provision to maintain adequate fire and windstorm insurance on all buildings and structures of the works and properties of the System which are subject to loss through fire or windstorm, public liability insurance and other insurance of such types and in such amounts as are normally carried in the operation of similar airport facilities within the State of Florida, for all of which insurance the Issuer may be either a wholly or partial self-insurer. Any such insurance shall be placed with nationally recognized and reputable insurers or under State-approved and authorized self-insurance programs or any combination of both and shall be carried for the benefit of the Lender. All moneys received for losses under any of such insurance, except public liability, and for diminutive items which are not integral for the operation of the System and which are not revenue producing, are hereby pledged as security for the Issuer, until and unless such proceeds are used to remedy the loss or damage for which such proceeds are received, either by repairing the property damaged or replacing the property destroyed with due diligence after the receipt of such proceeds, or are applied to prepay the Note.

(g) Compliance with Laws. The Issuer shall comply with all applicable federal, state and local laws and regulatory requirements, the violation of which could reasonably be expected to have a material and adverse effect upon the financial condition of the Issuer or upon the ability of the Issuer to perform its obligation hereunder and under the Note.

(h) Payment of Document Taxes. In the event the Note or this Agreement should be subject to the excise tax on documents of the State, the Issuer shall pay such taxes or reimburse the Lender for any such taxes paid by it.

(i) Payment of Obligations. The Issuer will pay when due all of its obligations and liabilities, except where the same (other than the Note) are being contested in good faith by appropriate proceedings diligently prosecuted and appropriate reserves for the accrual of same satisfactory to the Lender are maintained.

(j) Observe all Laws. The Issuer will conform to and duly observe all laws, regulations and other valid requirements of any governmental or regulatory authority with respect to this Agreement and the Note.

(k) No Material Impairment of Pledged Funds. The Issuer will not take any action which will materially impair or materially adversely affect the Revenues or materially impair or

materially adversely affect in any manner the pledge of the Pledged Funds made herein or the rights of the holder of the Note hereunder.

(l) Additional Instruments and Assurances. The Issuer shall execute and deliver to the Lender all such documents and instruments, and do all such acts and things, as may be necessary or required by the Lender to enable the Lender to exercise and enforce its rights under this Agreement, and to realize thereof, and record and file and re-record and re-file all such documents and instruments, at such time or times, in such manner and at such place or places, all as may be necessary or required by the Lender to validate, preserve and protect the position of the Lender under this Agreement and the Note.

(m) Payment Procedures. The Issuer agrees that so long as Truist Bank or an affiliate thereof is the owner of the Note, to have all payments due and owing under this Agreement or the Note to be collected via ACH Direct Debit from a Truist Bank account and to maintain its primary depository relationship with Truist Bank. Except upon the Final Maturity Date of the Note, the Lender shall not be required to present the Note for payment. Promptly after the Final Maturity Date, the Lender will mark the Note cancelled and provide a copy of such cancelled Note to the Issuer.

(n) Payment from Pledged Funds. The Issuer will duly and punctually pay or cause to be paid from the Pledged Funds, as provided herein, the principal of, and interest and premium, if any, on the Note.

(o) Operation and Maintenance. The Issuer will maintain or cause to be maintained the System and all parts thereof in good condition and will operate or cause to be operated the same in an efficient and economical manner, making or causing to be made such expenditures for equipment and for renewals, repairs and replacements as may be proper for the economical operation and maintenance thereof. The Issuer will establish and enforce reasonable rules and regulations governing the use and operation of the System as may be required. The Issuer shall place and keep in charge of the operation of the System a person having experience in the operation of airports similar to the System. The Issuer will pay or cause to be paid when due all lawful assessments, taxes, levies or every kind and nature relating to the System and shall pay all costs, expenses, liabilities and charges of every kind and nature, including charges for gas, electricity, water and sewer and other utilities, relating to the System and the operation and ownership thereof (subject to the right of the Issuer to contest any of the foregoing liabilities in good faith provided that doing so does not subject the System or any part thereof to risk of material loss).

(p) Enforcement of Collections. The Issuer will diligently enforce and collect the rates, fees and other charges for the services of the System in this Agreement pledged; will take all reasonable steps, actions and proceedings for the enforcement and collection of such rates, charges and fees as shall become delinquent; and will maintain accurate records with respect thereof. All such fees, rates, charges and revenues in this Agreement pledged shall, as collected, be held in trust to be applied as in this Agreement provided and not otherwise.

(q) Report Regarding System. The Issuer will retain a consulting engineer on a continuing basis for the purpose of providing to the Issuer competent counsel affecting the economical and efficient operation of the System and in connection with the making of capital improvements and renewals and replacements to the System. The Issuer shall every third year, if

requested by the Lender, cause to be prepared by the consulting engineer a report or survey of the System, with respect to the management of the properties, the sufficiency of the rates and charges for services, the proper maintenance of the properties of the System, and the necessity for capital improvements and recommendations therefor. Such a report or survey shall also show any failure of the Issuer to perform or comply with the covenants contained in this Agreement.

If any such report or survey of the consulting engineer shall set forth that the provisions of this Agreement or any reasonable recommendations of such consulting engineer have not been complied with, the Issuer shall immediately take such reasonable steps as are necessary to comply with such requirements and recommendations. Copies of each report or survey shall be placed on file with the Executive Director of the Issuer and shall be open to the inspection of the Lender or other interested parties.

(r) Rate Covenant. The Issuer will fix, revise from time to time when necessary, maintain and collect such fees, rates, rentals and other charges for the use of the products, services and facilities of the System, or concessions granted in connection therewith, that will always provide Revenues in each Fiscal Year that will be sufficient to pay, in accordance with the provisions of this Agreement, (i) all amounts required to be deposited in the Operation and Maintenance Fund to pay Operating Expenses, plus (ii) one hundred twenty-five percent (125%) of the principal of and interest on any Debt coming due in such Fiscal Year. The Issuer covenants that it shall not permit such fees, rates, rentals and other charges to be reduced so as to be insufficient to provide Revenues for such purposes.

(s) Financial Reports and Other Data and Information.

(i) As soon as available and in any event within 270 days after the end of each Fiscal Year, the Issuer shall deliver to the Lender (a) current financial statements (which shall include combined and combining statements of financial position, activities and cash flows with all supporting schedules) for the Issuer setting forth in each case in comparative form the figures for the previous Fiscal Year, each such statement to be prepared in accordance with GAAP, audited without scope limitations by an independent certified accountant of recognized standing selected by the Issuer and satisfactory to the Lender, and in form and content satisfactory to the Lender, together with a copy of such auditors management letter or report and (b) a certificate signed by the chief financial officer of the Issuer certifying that the Issuer has not violated any of the covenants and other obligations set forth in this Agreement and is not in violation of any of its other agreement, contracts or obligations except as otherwise described in such certificate.

(ii) The Issuer shall provide the Lender in each year, as soon as available, but in any event within 30 days after its adoption, the budget for the succeeding Fiscal Year.

(iii) The Issuer will keep proper books of record and account in which full, true and correct entries shall be made of its transactions in accordance with the GAAP with those applied in the preparation of the financial statements described above.

(iv) Immediately upon any change of the Issuer's independent public accountants, written notification thereof and such further information as the Lender may reasonably request concerning the resignation, refusal to stand for reappointment after completion of the current audit or dismissal of such accountants.

(v) The Issuer shall, within reasonable promptness, deliver such other information respecting the business, properties, condition or operations, financial or otherwise, of the Issuer and the System as the Lender may from time to time reasonably request.

(t) Pledge. The payment of the principal of and interest under this Agreement and on the Note shall be secured forthwith equally and ratably by an irrevocable lien on the Pledged Funds. The Issuer does hereby irrevocably pledge such Pledged Funds to the payment of the principal of, premium, if any, and interest under this Agreement and the Note.

Section 3.02 Negative Covenants. For so long as any of the principal amount of or interest on the Note is outstanding or any duty or obligation of the Issuer hereunder or under the Note remains unpaid or unperformed, the Issuer covenants to the Lender as follows:

(a) No Additional Borrowings. The Issuer shall not issue or incur any Debt without the written consent of the Lender except to refund, in its entirety, the Note.

(b) No Mortgage or Sale of the System. The Issuer will not sell, lease, encumber or in any manner dispose of the System as a whole until the Note shall have been paid in full as to both principal and interest.

The Issuer may sell or dispose of, for fair market value, any properties or parts of the System which a consulting engineer will certify in writing are not necessary for the continued operation of the System and that the sale or disposal of which will not adversely affect the Revenues to be derived from the System to such an extent that the Issuer will fail to comply with the covenants of this Agreement.

The proceeds derived from any sale or disposal of any properties or parts of the System as provided for in the above paragraph shall, in the discretion of the Issuer, be (1) used exclusively for the purpose of paying the cost of extensions, enlargements or additions to, or the replacement of capital assets of the System and for unusual or extraordinary repairs thereto, or for the construction or acquisition of additions, extensions and improvements to the System, or (2) for the retirement of the Note.

Notwithstanding the foregoing provisions, the Issuer may sell, lease or otherwise dispose of any part of the System having a fair market value of less than \$10,000 at the time of disposition, in its discretion, and may use the proceeds thereof in any manner permitted by law.

(c) No Free Service. The Issuer will not render or cause to be rendered any free services of any nature by the System, nor will any preferential rates be established for users of the same class; the Issuer, including its departments, agencies and instrumentalities, shall avail itself of the services provided by the System, or any part thereof, and the same rates, fees or charges applicable to other customers receiving like services under similar circumstances shall be charged to the Issuer and any such department, agency or instrumentality. Such charges shall be paid as they accrue, and the Issuer shall transfer from its relevant funds sufficient sums to pay such charges. The revenues so received shall be deemed to be Revenues derived from the operation of the System, and shall be deposited and accounted for in the same manner as other revenues derived from such operations of the System.

(d) No Competing Facilities. To the full extent permitted by law, the Issuer will not grant, or cause, consent to, or allow the granting of, any franchise or permit to any person, firm,

corporation or body, or agency or instrumentality whatsoever, for the furnishing of airport or aviation services which will materially compete with those of the System.

Section 3.03 Registration and Exchange of Note. The Note shall initially be owned by Truist Bank. The ownership of the Note may only be transferred, and the Issuer will transfer the ownership of such Note or Notes, upon written request of the Lender or the subsequent registered owner thereof to the Issuer specifying the name, address and taxpayer identification number of the transferee, and the Issuer will keep and maintain at all times a record setting forth the identification of the owner of such Note. The Note may only be sold, assigned or otherwise transferred to an "accredited investor," as defined in Rule 501(A)(1), (2) or (3) under Regulation D of the Securities Act of 1933. The Person or Persons in whose name(s) the Note shall be registered shall be deemed and regarded the absolute owner thereof for all purposes, and payment of principal and interest on the Note shall be made only to or upon the written order of such Person. All such payments shall be valid and effectual to satisfy and discharge the liability upon such Note to the extent of the sum or sums so paid. Notwithstanding the foregoing, Truist Bank reserves the right to assign all or a portion of the Note to an affiliate of the Lender in its sole discretion and without limitation.

Section 3.04 Note Mutilated, Destroyed, Stolen or Lost. In case the Note shall become mutilated, or be destroyed, stolen or lost, the Issuer shall issue and deliver a new Note, in exchange and in substitution for such mutilated Note, or in lieu of and in substitution for the Note destroyed, stolen or lost and upon the Lender furnishing the Issuer proof of ownership thereof and indemnity reasonably satisfactory to the Issuer and paying such expenses as the Issuer may reasonably incur in connection therewith.

Section 3.05 Pledge. The payment of the principal of, premium, if any, and interest on the Note shall be secured by an irrevocable lien on and pledge of the Pledged Funds, all in the manner and to the extent provided herein. The Issuer does hereby pledge and grant a lien upon and security interest in such Pledged Funds to the payment of the principal of, premium, if any, and interest on the Note and for all other payments provided for herein.

NOTWITHSTANDING THE FOREGOING OR ANYTHING ELSE HEREIN OR IN THE NOTE TO THE CONTRARY, NEITHER THIS AGREEMENT NOR THE NOTE NOR THE PRINCIPAL OR INTEREST PAYABLE HEREUNDER OR THEREON SHALL CONSTITUTE A GENERAL OBLIGATION OR GENERAL INDEBTEDNESS OF THE ISSUER OR THE STATE OF FLORIDA OR ANY POLITICAL SUBDIVISION THEREOF WITHIN THE MEANING OF THE CONSTITUTION AND LAWS OF FLORIDA. THE NOTE AND THE INTEREST PAYABLE HEREUNDER OR THEREON AND THEREON DO NOT CONSTITUTE EITHER A PLEDGE OF THE FULL FAITH AND CREDIT OF THE ISSUER OR THE STATE OF FLORIDA OR ANY POLITICAL SUBDIVISION THEREOF OR A LIEN UPON ANY PROPERTY OF THE ISSUER OR THE STATE OF FLORIDA OR ANY POLITICAL SUBDIVISION THEREOF OTHER THAN AS PROVIDED IN THIS AGREEMENT AND THE NOTE. NO OWNER OF THE NOTE OR ANY OTHER PERSON SHALL EVER HAVE THE RIGHT TO COMPEL THE EXERCISE OF ANY AD VALOREM TAXING POWER OF THE ISSUER OR THE STATE OF FLORIDA OR ANY POLITICAL SUBDIVISION THEREOF TO PAY PRINCIPAL OR INTEREST THEREON OR TO PAY ANY OTHER AMOUNTS REQUIRED TO BE PAID PURSUANT TO THIS AGREEMENT OR THE NOTE. RATHER, PRINCIPAL, INTEREST AND ANY OTHER AMOUNTS REQUIRED TO BE PAID PURSUANT TO THIS AGREEMENT OR THE NOTE, SHALL BE

PAYABLE SOLELY FROM, AND SHALL BE SECURED SOLELY BY, THE PLEDGED FUNDS PLEDGED TO THE EXTENT AND IN THE MANNER PROVIDED HEREIN AND IN THE NOTE.

Section 3.06 Payment of Principal and Interest. The Issuer promises that it will promptly pay the principal of and interest on and any prepayment or redemption premium on the Note and all other amounts due and payable hereunder and under the Note, at the place, on the dates and in the manner provided therein according to the true intent and meaning hereof and of the Note, provided that the Issuer may be compelled to pay the principal of and interest on and any prepayment premium with respect to the Note solely from the Pledged Funds, and nothing in the Note or this Agreement shall be construed as pledging any other funds or assets of the Issuer to such payment or as authorizing such payment to be made from any other source.

Section 3.07 Officers and Employees of the Issuer Exempt from Personal Liability. No recourse under or upon any obligation, covenant or agreement of this Agreement or the Note or for any claim based hereon or thereon or otherwise in respect thereof, shall be had against any officer, agent or employee, as such, of the Issuer, past, present or future, it being expressly understood (a) that the obligation of the Issuer under this Agreement and under the Note is solely a corporate one, limited as provided herein, (b) that no personal liability whatsoever shall attach to, or is or shall be incurred by, the officers, agents, or employees, as such, of the Issuer, or any of them, under or by reason of the obligations, covenants or agreements contained in this Agreement or implied therefrom, and (c) that any and all such personal liability of, and any and all such rights and claims against, every such officer, agent, or employee, as such, of the Issuer under or by reason of the obligations, covenants or agreements contained in this Agreement and under the Note, or implied therefrom, are waived and released as a condition of, and as a consideration for, the execution of this Agreement and the issuance of the Note on the part of the Issuer.

Section 3.08 Business Days. In any case where the due date of interest on or principal of the Note is not a Business Day, then payment of such principal or interest need not be made on such date but may be made on the next succeeding Business Day, provided that credit for payments made shall not be given until the payment is actually received by the Lender.

Section 3.09 Fund and Accounts. The Issuer hereby establishes a special fund to be known as the "Titusville-Cocoa Airport Authority Revolving Line of Credit Note, Series 2021 Revenue Fund," a special fund to be known as the "Titusville-Cocoa Airport Authority Revolving Line of Credit Note, Series 2021 Debt Service Fund," and a special fund to be known as the "Titusville-Cocoa Airport Authority Revolving Line of Credit Note, Series 2021 Operation and Maintenance Fund."

Moneys in the aforementioned fund and accounts, until applied in accordance with the provisions hereof, shall be held in trust for and be subject to a lien and charge in favor of the registered owner of the Note and for the further security of such registered owner.

Section 3.10 Flow of Funds.

(A) Revenue Fund. The Issuer shall, promptly upon receipt, deposit all Revenues into the Revenue Fund. The moneys on deposit in the Revenue Fund shall be applied on or before

the tenth day of each month, commencing in the month after delivery of the Note, in the following manner and in the following order of priority:

(1) First, by deposit into the Operation and Maintenance Fund, only as much money as is necessary to make the amount then on deposit in such fund sufficient to pay the Operating Expenses through the ensuing month.

(2) Next, by deposit into the Debt Service Fund and all other debt service funds established by the Issuer for additional Debt, if any, approved by the Issuer pursuant to Section 3.02(a) hereof, on a pro rata basis, an amount equal to principal of and interest on and any prepayment or redemption premium or fee next becoming due and payable on the Note (after taking into account any amounts on deposit therein) and amounts as are required to be deposited into the debt service funds for such additional Debt in such month.

Deposits required pursuant to the foregoing in this clause (2) shall be increased or decreased each month to the extent required to timely pay interest, principal and redemption or prepayment premiums or fees next becoming due and payable, after making allowance for any accrued and capitalized interest, and to make up any deficiency or loss that may otherwise arise in such fund.

(3) Third, any amounts in excess of (i) Operating Expenses through the next succeeding twelve (12) months, after taking into account amounts on deposit in the Operation and Maintenance Fund, and (ii) the principal and interest on the Loan coming due in the next succeeding twelve (12) months, after taking into account amounts on deposit in the Debt Service Fund, may be applied by the Issuer for any lawful purpose.

Section 3.11 Revenue Fund, Debt Service Fund and Operation and Maintenance Fund. The Issuer shall apply all moneys on deposit in the Debt Service Fund to the timely payment of the principal of, redemption premium or prepayment penalty with respect to, and interest on the Note, and funds on deposit in the Operation and Maintenance Fund to pay the Operating Costs. Funds in the Revenue Fund, the Debt Service Fund and the Operation and Maintenance Fund may be invested in Investment Obligations that mature not later than the dates that such funds will be needed for the purposes of such Funds. Investment earnings shall remain on deposit in the respective funds and applied as herein contemplated.

ARTICLE IV CONDITIONS OF LENDING

The obligations of the Lender to lend hereunder are subject to the following conditions precedent:

Section 4.01 Representations and Warranties. The representations and warranties of the Issuer set forth in this Agreement and the Note are true and correct on and as of the date hereof.

Section 4.02 No Default. On the date hereof the Issuer shall be in compliance with all the terms and provisions set forth in this Agreement and the Note on its part to be observed or performed, and no Event of Default or any event that, upon notice or lapse of time or both, would constitute such an Event of Default, shall have occurred and be continuing at such time.

Section 4.03 Supporting Documents. On or prior to the date hereof, the Lender shall have received the following supporting documents, all of which shall be satisfactory in form and substance to the Lender (such satisfaction to be evidenced by the purchase of the Note by the Lender):

- (a) The opinion of the attorney for the Issuer regarding the due authorization, execution, delivery, validity and enforceability of the Agreement, the Note and such other items as the Lender shall reasonably request;
- (b) The Note and an executed original of this Agreement; and
- (c) Such additional supporting documents as the Lender may reasonably request.

ARTICLE V THE LOAN

Section 5.01 The Loan. The Lender hereby agrees to lend to the Issuer from time to time up to the Maximum Commitment Amount to provide funds for the purposes described herein upon the terms and conditions set forth in this Agreement. The Issuer agrees to repay the principal amount borrowed plus interest thereon, upon the terms and conditions set forth in this Agreement and the Note.

The Maximum Commitment Amount may be reduced at the written request of the Issuer, together with amounts, if any, payable under Section 5.05 herein. At any time that the Loan exceeds the Maximum Commitment Amount, due to a reduction in the Maximum Commitment Amount or otherwise, the Issuer shall promptly repay to the Lender principal in such amount that the Loan will no longer exceed the Maximum Commitment Amount.

Section 5.02 Description and Payment Terms of the Note. To evidence the obligation of the Issuer to repay the Loan, the Issuer shall make and deliver to the Lender the Note in the form attached hereto as Exhibit A. Prepayment of principal may be made only as provided in the Note and the rate of interest on the Note, including any adjustments thereto, shall be as provided in the Note.

Section 5.03 Requisitions for Advances; Other Conditions.

(a) Upon three (3) Business Days' written notice to the Lender, the Issuer may borrow an aggregate principal amount from time to time up to the Maximum Commitment Amount of the Note, by requesting Advances hereunder and under the Note, provided that no Advance will be made after the Final Maturity Date. Amounts advanced and repaid may be re-advanced, provided, however, at no time shall the Loan exceed the Maximum Commitment Amount. The aggregate principal amount of each Advance shall be not less than \$25,000 or in such lesser amounts equal to the Available Commitment Amount. The Issuer's obligation to pay the principal of, and interest on the Advances made hereunder shall be evidenced by the Note and the records of the Lender, updated for each Advance and each principal repayment, which shall be conclusive absent manifest error. Any request for any Advance received by the Lender after 2:00 p.m. Eastern time shall be deemed received on the next Business Day.

(b) The Lender shall not be obligated to Advance any funds unless (i) no Event of Default has occurred and is continuing and no event has occurred which, with the

passage of time or giving of notice or both, would constitute an Event of Default (a "Default"); (ii) the Issuer delivers to the Lender a written request for such Advance, in substantially the form attached as Exhibit B hereto, executed by an Authorized Officer indicating the amount of the Advance requested, the date on which such Advance is to be made, and certifying that (iii) the representations and warranties in this Agreement are true and correct on the date of such Advance, and (iv) no Event of Default or any event that, upon notice or lapse of time or both, would constitute such an Event of Default has occurred and is continuing as of the date of such Advance.

(c) Upon the satisfaction of the applicable conditions set forth herein, the Lender will make the proceeds of each Advance available to the Issuer on the date specified in the applicable request for an Advance by crediting the proceeds of such Advance to Issuer's operating account with Lender by close of business of the date in immediately available funds, or in such other manner as requested in the request for the Advance and approved by the Lender.

Section 5.04 Computation of Interest and Fees; Application of Payments. All computations of interest and fees hereunder shall be made on the basis of a year of 360 days for the actual number of days per month. All payments made on the Note shall be applied first to interest accrued to the date of payment and next to the unpaid principal balance.

Section 5.05 Fees. The Issuer agrees to pay the Lender a quarterly unused commitment fee (the "Unused Fee") in the amount equal to one quarter of one percent (0.25%) multiplied by the difference between the average loan amount outstanding during the preceding quarter and such Maximum Commitment Amount under the Note. The unused commitment fee shall be due and payable each calendar quarter in arrears, commencing _____ 1, 2021 and on the first day of each fiscal quarter thereafter. Unused commitment fees will be payable upon invoice but not less than 30 days of demand. **[The Unused Fee shall be reduced to 0.10% of the unused balance of the Note if all operating accounts of the Issuer are moved to the Lender.]**

ARTICLE VI EVENTS OF DEFAULT

Section 6.01 General. An "Event of Default" shall be deemed to have occurred under this Agreement if:

(a) The Issuer shall fail to make any payment of the principal of, premium, if any, or interest on the Note or any other indebtedness of the Issuer to the Lender (or its affiliates) when the same shall become due and payable, whether by maturity, by acceleration at the discretion of the Lender as provided for in Section 6.02, or otherwise; or

(b) The Issuer shall default in the performance of or compliance with Article III herein; or

(c) The Issuer shall default in the performance of or compliance with any term or covenant contained in this Agreement or the Note, other than a term or covenant a default in the performance of which or noncompliance with which is elsewhere specifically dealt with in this Section 6.01, which default or non-compliance shall continue and not be cured within thirty (30) days after (i) written notice thereof to the Issuer by the Lender, or (ii) the Lender is notified of

such noncompliance or should have been so notified pursuant to the provisions of Section 3.01(c) of this Agreement, whichever is earlier; or

(d) Any representation or warranty made in writing by or on behalf of the Issuer in this Agreement or the Note shall prove to have been false or incorrect in any material respect on the date made or reaffirmed; or

(e) The Issuer admits in writing its inability to pay its debts generally as they become due or files a petition in bankruptcy or makes an assignment for the benefit of its creditors or consents to the appointment of a receiver or trustee for itself; or

(f) The Issuer is adjudged insolvent by a court of competent jurisdiction, or it is adjudged a bankrupt on a petition in bankruptcy filed by the Issuer, or an order, judgment or decree is entered by any court of competent jurisdiction appointing, without the consent of the Issuer, a receiver or trustee of the Issuer or of the whole or any part of its property, and if the aforesaid adjudications, orders, judgments or decrees shall not be vacated or set aside or stayed within ninety (90) days from the date of entry thereof; or

(g) The Issuer shall file a petition or answer seeking reorganization or any arrangement under the federal bankruptcy laws or any other applicable law or statute of the United States of America or the State; or

(h) The Issuer shall default in connection with any obligation for borrowed money or other credit in excess of \$10,000.00 with any creditor other than the Lender or its affiliates, which default entitles such creditor to accelerate the maturity thereof and is not cured within thirty (30) days; or

(i) A monetary judgment in excess of \$10,000.00 is entered against the Issuer which is not satisfied or superseded within thirty (30) days.

Section 6.02 Effect of Event of Default. Immediately and without notice, upon the occurrence of any Event of Default, the Lender may declare all obligations of the Issuer under this Agreement and the Note to be immediately due and payable without further action of any kind and upon such declaration the Note and the interest accrued thereon shall become immediately due and payable. In addition, and regardless whether such declaration is or is not made, the Lender may also seek enforcement of and exercise all remedies available to it under any applicable law.

ARTICLE VII MISCELLANEOUS

Section 7.01 No Waiver; Cumulative Remedies. No failure or delay on the part of the Lender in exercising any right, power, remedy hereunder or under the Note shall operate as a waiver of the Lender's rights, powers and remedies hereunder, nor shall any single or partial exercise of any such right, power or remedy preclude any other or further exercise thereof, or the exercise of any other right, power or remedy hereunder or thereunder. The remedies herein and therein provided are cumulative and not exclusive of any remedies provided by law or in equity.

Section 7.02 Amendments, Changes or Modifications to the Agreement. This Agreement shall not be amended, changed or modified except in writing signed by the Lender

and the Issuer. The Issuer agrees to pay all of the Lender's costs and reasonable attorneys' fees incurred in modifying and/or amending this Agreement at the Issuer's request or behest.

Section 7.03 County Not Liable. Brevard County, Florida is not liable for any amounts due hereunder or that may become due hereunder and has no obligations or responsibilities with respect to this Agreement or the Note.

Section 7.04 Counterparts. This Agreement may be executed in any number of counterparts, each of which, when so executed and delivered, shall be an original; but such counterparts shall together constitute but one and the same Agreement, and, in making proof of this Agreement, it shall not be necessary to produce or account for more than one such counterpart.

Section 7.05 Severability. If any clause, provision or section of this Agreement shall be held illegal or invalid by any court, the invalidity of such clause, provision or section shall not affect any other provisions or sections hereof, and this Agreement shall be construed and enforced to the end that the transactions contemplated hereby be effected and the obligations contemplated hereby be enforced, as if such illegal or invalid clause, provision or section had not been contained herein.

Section 7.06 Term of Agreement. Except as otherwise specified in this Agreement, this Agreement and all representations, warranties, covenants and agreements contained herein or made in writing by the Issuer in connection herewith shall be in full force and effect from the date hereof and shall continue in effect until as long as the Note are outstanding.

Section 7.07 Notices. All notices, requests, demands and other communications which are required or may be given under this Agreement shall be in writing and shall be deemed to have been duly given when received if personally delivered; when transmitted if transmitted by telecopy, electronic telephone line facsimile transmission or other similar electronic or digital transmission method (provided customary evidence of receipt is obtained); the day after it is sent, if sent by overnight common carrier service; and five days after it is sent, if mailed, certified mail, return receipt requested, postage prepaid. In each case notice shall be sent to the Notice Address.

Section 7.08 Applicable Law; Venue. This Agreement shall be construed pursuant to and governed by the substantive laws of the State. The Issuer and the Lender waive any objection either might otherwise have to venue in any judicial proceeding brought in connection herewith lying in Brevard County, Florida.

Section 7.09 Binding Effect; Assignment. This Agreement shall be binding upon and inure to the benefit of the successors in interest and permitted assigns of the parties. The Issuer shall have no rights to assign any of its rights or obligations hereunder without the prior written consent of the Lender.

Section 7.10 No Third Party Beneficiaries. It is the intent and agreement of the parties hereto that this Agreement is solely for the benefit of the parties hereto and no person not a party hereto shall have any rights or privileges hereunder.

Section 7.11 Attorneys' Fees. The Issuer shall pay all of Lender's fees and expenses in enforcing this Agreement and the Note.

Section 7.12 Entire Agreement. Except as otherwise expressly provided, this Agreement and the Note embody the entire agreement and understanding between the parties hereto and supersede all prior agreements and understandings relating to the subject matter hereof.

Section 7.13 Further Assurances. The parties to this Agreement will execute and deliver, or cause to be executed and delivered, such additional or further documents, agreements or instruments and shall cooperate with one another in all respects for the purpose of carrying out the transactions contemplated by this Agreement.

Section 7.14 Waiver of Jury Trial. EACH OF THE PARTIES HERETO HEREBY KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVES THE RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY LITIGATION BASED HEREON, OR ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS AGREEMENT OR THE NOTE AND ANY DOCUMENT CONTEMPLATED TO BE EXECUTED IN CONJUNCTION HEREWITH, OR ANY COURSE OF CONDUCT, COURSE OF DEALING, STATEMENTS (WHETHER VERBAL OR WRITTEN) OR ACTIONS OF EITHER PARTY. THIS PROVISION IS A MATERIAL INDUCEMENT FOR THE PARTIES TO ENTER INTO THIS AGREEMENT.

Section 7.15 Patriot Act Notice. The Lender hereby notifies Issuer that pursuant to the requirements of the USA PATRIOT Act (Title III of Pub. L. 107-56 signed into law October 26, 2001), the Lender may be required to obtain, verify and record information that identifies the Issuer, which information includes the name and address of the Issuer and other information that will allow the Lender to identify the Issuer in accordance with the USA Patriot Act.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties have executed this Agreement to be effective between them as of the date of first set forth above. By execution hereof, the Executive Director of the Issuer acknowledges his approval of the substance hereof.

TITUSVILLE-COCOA AIRPORT
AUTHORITY

By: _____
Name: Kevin Daugherty, AAE
Title: Executive Director

TRUIST BANK

By: _____
Name: Brian S. Orth
Title: Senior Vice President

(Signature Page to Revolving Line of Credit Agreement)

EXHIBIT A

FORM OF NOTE

THIS NOTE IS SUBJECT TO TRANSFER RESTRICTIONS, MORE FULLY DESCRIBED IN THE REVOLVING LINE OF CREDIT AGREEMENT REFERRED TO HEREIN, AND EXCEPT AS OTHERWISE PERMITTED BY THE REVOLVING LINE OF CREDIT AGREEMENT, MAY NOT BE TRANSFERRED EXCEPT TO AN ACCREDITED INVESTOR WITHIN THE MEANING OF RULE 501 UNDER REGULATION D PROMULGATED UNDER THE SECURITIES ACT OF 1933.

TITUSVILLE-COCOA AIRPORT AUTHORITY
TAXABLE REVOLVING LINE OF CREDIT REVENUE NOTE,
SERIES 2021

The Titusville-Cocoa Airport Authority (the "Issuer"), a public body corporate and politic of the State of Florida created and existing pursuant to the Constitution and the laws of the State of Florida, for value received, promises to pay, but solely from the sources hereinafter provided, to the order of Truist Bank, or registered assigns (together with any other registered owner of this Note, hereinafter, the "Lender"), the principal sum of ONE MILLION FIVE HUNDRED THOUSAND DOLLARS (\$1,500,000) or such lesser amount as shall have been advanced and shall be outstanding hereunder, together with interest on the principal balance outstanding at the rate per annum equal to the Rate (as hereinafter defined) (subject to adjustment as hereinafter provided including by Addendum A to this Note) based upon the basis of a 360-day year for actual number of days in each month. This Note is issued pursuant to action of the Issuer taken on _____ 1, 20____ and in conjunction with a Revolving Line of Credit Agreement, dated as of _____, 2021, between the Issuer and the Lender (the "Revolving Line of Credit Agreement") and is subject to all the terms and conditions of the Revolving Line of Credit Agreement. All terms used herein in capitalized form and not otherwise defined herein shall have the meanings ascribed thereto, or referenced, in the Revolving Line of Credit Agreement. Addendum A is incorporated by reference herein and made a part hereof.

Principal of and interest on this Note are payable in immediately available funds constituting lawful money of the United States of America at the Principal Office of the Lender or such other place as the Lender may designate in writing to the Issuer, without presentment; provided, however, that so long as Truist Bank or an affiliate thereof is the Owner of this Note the Note shall be payable as provided in Section 3.01(m) of the Revolving Line of Credit Agreement.

As used in this Note:

"Default Rate" shall mean the lesser of 18% per annum and the maximum rate permitted by law.

"Index" shall mean Daily Simple SOFR as defined in Addendum A to this Note.

"Maximum Rate" means 8% per annum.

"Rate" means the Index plus 1.75% per annum; provided, however, that if the Rate would be less than 2.35%, the Rate shall be 2.35%; and further provided, however, that the Rate shall not exceed the Maximum Rate.

The Issuer shall pay the Lender interest on the outstanding principal balance of this Note on _____, 20____, and on the first day of each calendar month thereafter, to and including the Final Maturity Date (hereinafter defined). If any date for the payment of principal and interest is not a Business Day, such payment shall be due on the next succeeding Business Day.

The determination of the Rate by the Lender (absent manifest error) shall be conclusive and binding upon the Issuer.

The entire unpaid principal balance, together with all accrued and unpaid interest hereon, shall be due and payable in full on _____, 2022 or such later date which the Agreement may be extended or renewed in the sole discretion of the Lender by written notice from the Lender to the Issuer (the "Final Maturity Date"). All payments by the Issuer pursuant to this Note shall apply first to accrued interest, then to other charges due the Lender, and the balance thereof shall apply to the principal sum due.

The Issuer may prepay the Note in whole or in part on any Business Day upon two (2) Business Days' prior written notice to the Lender. Such prepayment notice shall specify the amount of the prepayment which is to be made.

This Note is a revolving line of credit. Principal amounts advanced and repaid under this Note may be readvanced; provided, however the principal amount outstanding at any given time hereunder shall not exceed the Maximum Commitment Amount.

Upon an Event of Default and so long as such Event of Default shall continue, the Rate on the Note shall be the Default Rate. Further, upon the occurrence of an Event of Default, the Lender may declare the entire debt then remaining unpaid hereunder (including, without limitation, accrued and unpaid interest) immediately due and payable; and in any such default and acceleration, the Issuer shall also be obligated to pay (but only from the Pledged Funds) as part of the indebtedness evidenced by this Note, all costs of collection and enforcement hereof, including such fees as may be incurred on appeal or incurred in any proceeding under bankruptcy laws as they now or hereafter exist, including specifically but without limitation, claims, disputes and proceedings seeking adequate protection or relief from the automatic stay.

Notwithstanding any other provision hereof, the Rate shall not exceed the maximum rate permitted by applicable law, and in the event the interest rate should exceed the maximum rate, the Lender, at its option, shall either refund the excess to the Issuer or apply the same to the prepayment of principal hereon.

The Issuer to the extent permitted by law hereby waives presentment, demand, protest and notice of dishonor.

NOTWITHSTANDING ANYTHING HEREIN OR IN THE REVOLVING LINE OF CREDIT AGREEMENT TO THE CONTRARY, NEITHER THIS NOTE NOR THE REVOLVING LINE OF CREDIT AGREEMENT NOR THE PRINCIPAL OR INTEREST PAYABLE HEREON SHALL CONSTITUTE A GENERAL OBLIGATION OR GENERAL

INDEBTEDNESS OF THE ISSUER OR THE STATE OF FLORIDA OR ANY POLITICAL SUBDIVISION THEREOF WITHIN THE MEANING OF THE CONSTITUTION AND LAWS OF FLORIDA. THIS NOTE AND THE INTEREST PAYABLE HEREON AND THEREON DO NOT CONSTITUTE EITHER A PLEDGE OF THE FULL FAITH AND CREDIT OF THE ISSUER OR THE STATE OF FLORIDA OR ANY POLITICAL SUBDIVISION THEREOF OR A LIEN UPON ANY PROPERTY OF THE ISSUER OR THE STATE OF FLORIDA OR ANY POLITICAL SUBDIVISION THEREOF OTHER THAN AS PROVIDED IN THIS NOTE AND THE REVOLVING LINE OF CREDIT AGREEMENT. NO OWNER OR ANY OTHER PERSON SHALL EVER HAVE THE RIGHT TO COMPEL THE EXERCISE OF ANY AD VALOREM TAXING POWER OF THE STATE OF FLORIDA OR ANY POLITICAL SUBDIVISION THEREOF TO PAY PRINCIPAL OR INTEREST THEREON OR TO PAY ANY OTHER AMOUNTS REQUIRED TO BE PAID PURSUANT TO THIS NOTE OR THE REVOLVING LINE OF CREDIT AGREEMENT. RATHER, PRINCIPAL, INTEREST AND ANY OTHER AMOUNTS REQUIRED TO BE PAID PURSUANT TO THIS NOTE OR THE REVOLVING LINE OF CREDIT AGREEMENT, SHALL BE PAYABLE SOLELY FROM, AND SHALL BE SECURED SOLELY BY, THE PLEDGED FUNDS.

All terms, conditions and provisions of the Revolving Line of Credit Agreement are by this reference thereto incorporated herein as a part of this Note.

This Note may be exchanged or transferred but only as provided in the Revolving Line of Credit Agreement.

It is hereby certified, recited and declared that all acts, conditions and prerequisites required to exist, happen and be performed precedent to and in the execution, delivery and the issuance of this Note do exist, have happened and have been performed in due time, form and manner as required by law, and that the issuance of this Note is in full compliance with and does not exceed or violate any constitutional or statutory limitation.

IN WITNESS WHEREOF, the Issuer has caused this Note to be executed in its name as of the date hereinafter set forth. By execution hereof, the Executive Director of the Issuer acknowledges his approval of the substance hereof.

The date of this Note is _____, 2021.

(SEAL)

TITUSVILLE-COCOA AIRPORT AUTHORITY

By: _____
Name: Kevin Daugherty, AAE
Title: Executive Director

Addendum A to Note
Daily Simple SOFR

The terms of this Addendum are hereby incorporated into the Note to which this Addendum is attached and in the event of any conflict between the terms of the Note and the terms of this Addendum, the terms of this Addendum shall control. Capitalized terms not otherwise defined herein shall have such meanings as given in the Revolving Line of Credit Agreement between Titusville-Cocoa Airport Authority (the "Issuer") and Truist Bank (the "Bank") dated as of _____, 2021 and the Note.

1. Definitions. As used in this Addendum, the following terms shall have the meanings set forth below:

"Adjusted SOFR Rate" means the variable annual interest rate equal to the sum obtained by adding (i) Daily Simple SOFR plus (ii) the margin provided for in the Note. For the avoidance of doubt, the term "margin" shall mean the difference between the Rate (as defined in the Note) minus the Index (as defined in the Note).

"Bank" shall mean Truist Bank and its successors and assigns.

"Daily Simple SOFR" means, for any day of determination (a "SOFR Interest Day"), an interest rate per annum equal to SOFR for the day that is five (5) Business Days prior to any SOFR Interest Day which is a Business Day, and for any SOFR Interest Day which is a non-Business Day, SOFR for the Business Day immediately preceding such non-Business Day. Any change in Daily Simple SOFR due to a change in SOFR shall be effective from and including the effective date of such change in SOFR without notice to the Issuer.

"Issuer" shall collectively and individually refer to the issuer as defined in the attached note dated _____, 2021 ("Note").

"Prime Rate" means, for any day, a rate per annum equal to Bank's announced Prime Rate, and shall change effective on the date any change in Bank's Prime Rate is publicly announced as being effective; provided if the rate is at any time less than zero percent (0%), then such rate shall be deemed to be zero percent (0%).

"SOFR" means, with respect to any Business Day, a rate per annum equal to the secured overnight financing rate (truncated at the 5th decimal place if necessary) for such Business Day published by the SOFR Administrator on the SOFR Administrator's Website as quoted by Bloomberg Finance L.P., or any quoting service or commonly available source utilized by Bank, on the immediately succeeding Business day; provided that if SOFR would be less than zero percent (0%), then SOFR shall be deemed to be zero percent (0%).

"SOFR Administrator" means the Federal Reserve Bank of New York (or a successor administrator of the secured overnight financing rate).

"SOFR Administrator's Website" means the website of the Federal Reserve Bank of New York, currently at <http://www.newyorkfed.org>, or any successor source for the

secured overnight financing rate identified as such by the SOFR Administrator from time to time.

2. Interest. Except as provided in this Addendum, the Issuer shall pay interest upon the unpaid principal balance of the Note at the Adjusted SOFR Rate, subject to any interest rate floor or interest rate ceiling contained in the Note. Interest shall be due and payable as provided in the Note and shall be calculated as described in the Note. The interest rate shall change based upon changes in Daily Simple SOFR.

3. Inability to Determine SOFR. In the event Bank determines in its sole discretion that (i) Bank cannot make, fund, or maintain a loan based upon SOFR, for any reason, including without limitation illegality or the inability to ascertain or determine said rate on the basis provided for herein, and for any length of time (whether by virtue of a temporary unavailability or the cessation of the rate) or (ii) SOFR does not accurately reflect Bank's cost of funds, then Bank will have no obligation to make, fund or maintain a loan based on SOFR. Upon the date of such determination, the interest rate shall convert to the Prime Rate, subject to any interest rate floor or interest rate ceiling contained in the Note, and shall be the governing interest rate for any fundings or advances requested by Issuer and for any outstanding balance and, thereafter, the interest rate on the Note shall adjust simultaneously with any fluctuation in the Prime Rate.

Bank shall provide notice of any action taken pursuant to the terms of this Section in a commercially reasonable time and manner. In the event Bank determines that the circumstances giving rise to the application by Bank of this Section have ended, the interest rate will revert to the then-current Adjusted SOFR Rate, and Bank shall provide notice to the Issuer in a commercially reasonable time and manner.

4. Additional Costs. In the event that any applicable law or regulation, guideline or order or the interpretation or administration thereof by any governmental or regulatory authority charged with the interpretation or administration thereof (whether or not having the force of law) (i) shall change the basis of taxation of payments to Bank of any amounts payable by the Issuer hereunder (other than taxes imposed on the overall net income of Bank) or (ii) shall impose, modify or deem applicable any reserve, special deposit or similar requirement against assets of, deposits with or for the account of, or credit extended by Bank, or (iii) shall impose any other condition with respect to the loan evidenced by the Note, and the result of any of the foregoing is to increase the cost to Bank of making or maintaining the loan evidenced by the Note or to reduce any amount receivable by Bank under the loan evidenced by the Note, and Bank determines that such increased costs or reduction in amount receivable was attributable to the Index used to establish the interest rate hereunder, then the Issuer shall from time to time, upon demand by Bank, pay to Bank additional amounts sufficient to compensate Bank for such increased costs (the "Additional Costs"). A detailed statement as to the amount of such Additional Costs, prepared in good faith and submitted to the Issuer by Bank, shall be conclusive and binding in the absence of manifest error.

By signing below, the Issuer agrees to the terms of this Addendum A to Note.

**TITUSVILLE-COCOA AIRPORT
AUTHORITY**

By: _____
Executive Director

EXHIBIT B

REQUISITION NO. ____

TITUSVILLE-COCOA AIRPORT AUTHORITY
TAXABLE REVOLVING LINE OF CREDIT REVENUE NOTE, SERIES 2021
REQUISITION FOR ADVANCES

The Titusville-Cocoa Airport Authority (the "Issuer"), pursuant to that certain Revolving Credit Agreement (the "Agreement") dated _____, 2021 between the Issuer and Truist Bank (the "Lender"), does hereby make application to the Lender under the Agreement for disbursement of funds to pay a portion of the costs of the Project (all terms used herein in capitalized form having the meanings given to those terms in the Agreement) in the following manner:

Amount Requested: \$ _____

Date Advance to be made: _____

Proceeds of the Advance to be distributed as follows:

- ☐ Wire Transfer (Account Number _____,
Routing Number _____)
- ☐ Check sent to _____,
_____, or such other address as attached hereto.
- ☐ Account Transfer (Account Number _____)

All representations and statements made herein are for the benefit of the Lender and the other parties related to the issuance of the Note and may not be relied upon by third parties.

The undersigned certifies that:

- (i) No Event of Default under the Agreement has occurred and is continuing and there exists no event or condition which, with the giving of notice or the passage of time, or both, would constitute an Event of Default under the Agreement; and
- (ii) All representations and warranties of the Issuer contained in the Agreement are true and correct as of the date hereof (except for the representations made as of a specific date).

Dated as of _____, 20__.

TITUSVILLE-COCOA AIRPORT
AUTHORITY

By: _____
Name: Kevin Daugherty, AAE
Title: Executive Director

APPROVED:

TRUIST BANK

By: _____
Title: _____

#150173482_v5 622301.00231



September 29, 2021

Memorandum

To: Frank Abbate, County Manager
Christine M. Schverak, Assistant County Attorney

From: Jay Glover, Managing Director – PFM Financial Advisors LLC

Re: Review of Financing Structure on behalf of Brevard County of the Titusville-Cocoa Airport Authority Taxable Revolving Line of Credit (2021)

The Titusville-Cocoa Airport Authority (the "Authority") is proposing to enter into a Revolving Line of Credit Agreement (the "Line of Credit") with Truist Bank to finance or refinance working capital needs in support of various capital projects at the airport. Under the special act creating the Authority, Chapter 2003-361, Laws of Florida, the County is required to approve any indebtedness incurred by the Authority.

Before doing so, PFM Financial Advisors LLC (the County's financial advisor) has been asked to review the financing documentation to confirm that the issuance of the Line of Credit will not have a financial impact on the County, impair the County's credit ratings or impact the County's ability to issue debt in the future. We have reviewed all of the relevant documentation as well as the proposed financing structure and based on that review, can confirm that the proposed issuance of the Line of Credit will not have any negative impact on the County. The County will have absolutely no liability with respect to the payment of principal or interest on the Line of Credit.

Given that the County is not the issuer of the Line of Credit and there is no financial obligation on the part of the County, PFM has not been asked to review any financial information related to the Authority's ability to repay the Line of Credit as part of the scope of this engagement.

TAMPA
2502 Rocky Point Drive
Suite 1060
Tampa, Florida 33607
(813) 281-2222 Tel
(813) 281-0129 Fax



TALLAHASSEE
1500 Mahan Drive
Suite 200
Tallahassee, Florida 32308
(850) 224-4070 Tel
(850) 224-4073 Fax

PLANTATION
8201 Peters Road
Suite 1000
Plantation, Florida 33324
(954) 315-0268 Tel

MEMORANDUM

TO: Eden Bentley, Brevard County Attorney
Frank Abbate, Brevard County Manager

FROM: Steven E. Miller, Esq.

DATE: September 28, 2021

RE: Review of Legal Documentation for the Titusville-Cocoa Airport Authority
Revolving Line of Credit with Truist Bank

The Titusville-Cocoa Airport Authority (the "Authority") is proposing to enter into a Revolving Line of Credit Agreement (the "Line of Credit") with Truist Bank to finance or refinance working capital needs in support of various capital projects at the airport. Under the special act creating the Authority, Chapter 2003-361, Laws of Florida, the County is required to approve any indebtedness incurred by the Authority.

You have asked Nabors, Giblin & Nickerson, PA, as Bond Counsel to the County, to review the documentation provided to the County by the Authority to confirm that the County has no obligation, financial or otherwise, with respect to the Line of Credit or the projects to be financed or refinanced with proceeds of the Line of Credit.

We have reviewed the relevant documentation and provided various comments to counsel for Truist Bank. Our comments have been addressed and, from the County's standpoint, the documentation adequately provides that neither the County nor any of the elected officials or staff of the County will have any obligation or liability, financial or otherwise, with respect to the Line of credit.

cc: Christine Schverak
Kathy Wall



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.14.

10/12/2021

Subject:

Approval, Re: Budget Change Requests

Fiscal Impact:

Dept/Office:

Budget

Requested Action:

It is requested that the Board of County Commissioners reviews and approves the attached Budget Change Requests.

Summary Explanation and Background:

In accordance with Budget and Financial Policy (BCC-21), the attached budget change requests are being submitted for review and approved by the Board of County Commissioners.

Clerk to the Board Instructions:

Maintain necessary documents for records retention.

**Budget Change Request (Form BCC-114)****Brevard County Budget Office****Fund:** 1200-Impact Fee Administration**Department:** Planning and Development Department**Date:** 10/1/2021**Program:** CENTRAL CASHIER**Type of Request:** Line Item Transfer**Revenue Change:****Expenditure Change:**

Reserves-Operating (\$10,235)

Operating Expenses \$10,235

Total: \$0**Total:** \$0**Justification:**

The purpose of this Budget Change Request is to allocate additional funding for Central Cashier Other Current Charges due to underestimating the number of transactions processed for Impact Fee Administration. When the Fiscal Year 2020-2021 budget was developed, the number of transactions processed was estimated to determine the level of financial support that would be needed for the Central Cashier. Current transactions processed have exceeded the amount that was originally estimated resulting in the need for additional financial support for the Central Cashier's Office. Available funds in Reserves will be shifted to Other Current Charges to provide enough funding to support the increased number of transactions processed by the Central Cashier's Office.

Alternative:

If this Budget Request is not approved, there will be insufficient funding available for the 4th quarter Central Cashier support.

SAP Document Number:

50015420

Approval:

TCALKINS

Approved

09/17/2021

KNETERER

Approved

09/20/2021

JJHAYES

Approved

09/23/2021

JDENNINGHOFF

Approved

09/23/2021

FBABBATE

Approved

10/01/2021

APPROVED IN REGULAR SESSION
BOARD OF COUNTY COMMISSIONERS

THIS ____ DAY OF _____ 20__

Rachel Sadoff, Clerk

BY: _____ D.C.

**Budget Change Request (Form BCC-114)****Brevard County Budget Office****Fund:** 1416-Inmate Commissary/Welfare**Department:** Sheriff for BCRA use only**Date:** 10/1/2021**Program:** SHERIFFS OFFICE**Type of Request:** Amendment**Revenue Change:**

Miscellaneous

Statutory Reduction

Expenditure Change:

\$63,158 Compensation and Benefits

(\$3,158) Operating Expenses

Capital Outlay

\$15,000

\$114,000

(\$69,000)

Total: \$60,000**Total:** \$60,000**Justification:**

This budget change request recognizes additional revenues generated from commissary purchases for improvements to the Paws and Stripes Program approved by the Inmate Welfare Committee on April 6, 2021.

Alternative:

If this budget change request is not approved, the County and Sheriff's Office records will not match.

SAP Document Number:

50015414

Approval:

JJHAYES

FBABBATE

Approved

Approved

09/23/2021

10/01/2021

APPROVED IN REGULAR SESSION
BOARD OF COUNTY COMMISSIONERS

THIS ____ DAY OF _____ 20__

Rachel Sadoff, Clerk

BY: _____ D.C.



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.15.

10/12/2021

Subject:

Requisition of Fiscal Year 2022 Budget - Brevard County Sheriff's Office

Fiscal Impact:

Dept/Office:

Brevard County Sheriff's Office

Requested Action:

It is requested that the Board of County Commissioners approve the requisition of one-twelfth of the Fiscal Year 2022 budgeted funds at the first Board of County Commissioners' meeting in October 2021, and one-sixth of the budget in January 2022, and equipment (capital) budget.

Summary Explanation and Background:

Per Florida Statute 30.50(1): The Sheriff shall requisition and the Board of County Commissioners shall pay him or her, at the first meeting in October of each year, and each month thereafter, one-twelfth of the total amount budgeted for the office; provided, that at the first meeting in January of each year, the Board shall, at the request of the Sheriff, pay one-sixth of the total appropriated, and one-twelfth each month thereafter, which payments shall be not more than the total appropriation. Provided further that any part of the amount budgeted for equipment shall be paid at any time during the year upon the request of the Sheriff.

Contact: Bill Spinelli

Phone/e-mail: (321) 264-5206, bill.spinelli@bcso.us

Clerk to the Board Instructions:

Meeting Date
October 2, 2021



AGENDA	
Section	Consent
Item No.	

AGENDA REPORT
BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS

SUBJECT:	Requisition of Fiscal Year 2022 Budget				
DEPT/OFFICE:	Brevard County Sheriff's Office				
Requested Action:					
It is requested that the Board of County Commissioners approve the requisition of one-twelfth of the Fiscal Year 2022 budgeted funds at the first Board of County Commissioners' meeting in October 2021, and one-sixth of the budget in January 2022, and equipment (capital) budget.					
Summary Explanation & Background:					
<p>Per Florida Statute 30.50(1): The Sheriff shall requisition and the Board of County Commissioners shall pay him or her, at the first meeting in October of each year, and each month thereafter, one-twelfth of the total amount budgeted for the office; provided, that at the first meeting in January of each year, the Board shall, at the request of the Sheriff, pay one-sixth of the total appropriated, and one-twelfth each month thereafter, which payments shall be not more than the total appropriation. Provided further that any part of the amount budgeted for equipment shall be paid at any time during the year upon the request of the Sheriff.</p>					
<p>Contact: Bill Spinelli Phone/e-mail: (321) 264-5206, bill.spinelli@bcso.us</p>					
Clerk to the Board Instructions:					
Exhibits Attached:					
Contract /Agreement (If attached): Reviewed by County Attorney				Yes	No
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	PR <input type="checkbox"/>
County Manager	Assistant County Manager		Department Director / Extension		
Frank Abbate, County Manager	Assistant County Manager		Sheriff Wayne Ivey		
			<i>Wayne Ivey</i>		



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.16.

10/12/2021

Subject:

Requisition of Fiscal Year 2022 Budget - Supervisor of Elections

Fiscal Impact:

Provide funds for Fiscal Year 2022

Dept/Office:

Supervisor of Elections

Requested Action:

It is requested the Board of County Commissioners approve requisition of 25 percent of the Supervisor of Elections' Fiscal Year 2022 budgeted funds at the first Board meeting in October 2021, and 6.82 percent of the total budget each month thereafter.

Summary Explanation and Background:

129.202 Budget of the Supervisor of Elections; matters related to allocation, expenditure, etc., of amounts in budget - (1)(a) The Supervisor of Elections shall requisition, and the Board of County Commissioners shall pay that officer, at the first meeting in October each year, 25 percent of the total amount budgeted for the Office and, thereafter on the first of each month, 6.82 percent of the total amount budgeted for the Office. However, if there are unusual or unanticipated expenses in any one month, upon notification by the Supervisor of Elections, the Board shall transfer the necessary amount, except that the total amount paid during the year shall not, without appropriate amendments, exceed the total budgeted for the year.

Clerk to the Board Instructions:



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Public Hearing

H.1.

10/12/2021

Subject:

Petition to Vacate, Re: Public Utility & Drainage Easement- 300 Surf Spray Drive - "Catalina Isle Estates Unit 4"
Plat Book 20, Page 47 - Merritt Island - Clark D. and Theresa A. Kugler - District 2

Fiscal Impact:

The petitioners are charged \$640. These fees are deposited in Fund 0002-30265 revenue account for vacating's.

Dept/Office:

Public Works Department - Surveying & Mapping

Requested Action:

It is requested that the Board of County Commissioners (BOCC) conduct a public hearing to consider vacating part of a public utility & drainage easement, "Catalina Isle Estates Unit 4" in Section 23, Township 24 South, Range 36 East. If approved, it is requested that the Board authorize the Chair to sign the attached Resolution approving the vacating.

Summary Explanation and Background:

Florida Statutes, Section 336.09 and Brevard County Article II, Section 86-36, provide a method to the Board of County Commissioners to vacate and abandon unused rights-of-way and easements. The petitioners own Lot 36, Block 5 and are requesting the vacating of a portion of a 15.00 ft. wide public utility & drainage easement lying on the North side of Lot 36, Block 5 to allow for the construction of the proposed pool. Easement to be vacated contains 335 square feet or 0.008 acres, more or less. The property is located in Merritt Island North of Highway 520 and East of State Road # 3.

September 27, 2021, the legal notice was advertised in Florida Today informing the public of the date a public hearing would be held to consider the vacating. All pertinent county agencies and public utility companies have been notified. At this time, no objections have been received.

Name: Amber.Holley@brevardfl.gov Phone: Ext. 58346

Clerk to the Board Instructions:

Advertise Approved Resolution Notice and Record Vacating Resolution Documents as one resolution type document which in sequence includes the approved/signed resolution, the proof of publication of the public hearing notice and the proof of publication of the adopted resolution notice.

Resolution 2021 -

**Vacating a portion of a public utility and drainage easement in plat "Cataline Isle Estates Unit 4"
Subdivision, Merritt Island, Florida, lying in Section 23, Township 24 South, Range 36 East**

WHEREAS, pursuant to Article II, Section 86-36, Brevard County Code, a petition has been filed by **CLARK D. & THERESA A. KUGLER** with the Board of County Commissioners to vacate a public easement in Brevard County, Florida, described as follows:

SEE ATTACHED SKETCH & DESCRIPTION

WHEREAS, the vacating action will in no way affect any private easements which may also be present in the existing public easement(s) or public right-of-way, nor does this action guarantee or transfer title.

WHEREAS, notice of the public hearing before the Board of County Commissioners was published one time in the TODAY Newspaper, a newspaper of general circulation in Brevard County, Florida, prior to the public hearing; and

WHEREAS, the Board finds that vacating the public easement will not be detrimental to Brevard County or the public.

THEREFORE BE IT RESOLVED that said public easement is hereby vacated; and Brevard County renounces and disclaims any rights in and to said easement. Pursuant to Section 177.101(5), Florida Statutes, the vacating shall not become effective until a certified copy of this resolution is filed in the offices of the Clerk of Courts and recorded in the Public Records of Brevard County.

DONE, ORDERED AND ADOPTED, in regular session, this 12th day of October, 2021 A.D.

BOARD OF COUNTY COMMISSIONERS
OF BREVARD COUNTY, FLORIDA

ATTEST:

Rachel Sadoff, Clerk

Rita Pritchett, Chair

As approved by the Board on:
October 12, 2021

Brevard County Property Appraiser Detail Sheet

Account 2417367
 Owners KUGLER, CLARK D; KUGLER, THERESA A
 Mailing Address 300 SURF SPRAY DR MERRITT ISLAND FL 32953
 Site Address 300 SURFSPRAY DR MERRITT ISLAND FL 32953
 Parcel ID 24-36-23-IY-5-36
 Property Use 0110 - SINGLE FAMILY RESIDENCE
 Exemptions
 DICV - DISABILITY - CIVILIAN
 HEX1 - HOMESTEAD FIRST
 HEX2 - HOMESTEAD ADDITIONAL
 Taxing District 2200 - UNINCORP DISTRICT 2
 Total Acres 0.20
 Subdivision CATALINA ISLE ESTATES UNIT 4
 Site Code 0130 - CANAL FRONT
 Plat Book/Page 0020/0047
 Land Description CATALINA ISLE ESTATES UNIT 4 LOT 36 BLK 5

VALUE SUMMARY

Category	2021	2020	2019
Market Value	\$296,820	\$253,540	\$261,040
Agricultural Land Value	\$0	\$0	\$0
Assessed Value Non-School	\$296,820	\$138,910	\$135,790
Assessed Value School	\$296,820	\$138,910	\$135,790
Homestead Exemption	\$25,000	\$25,000	\$25,000
Additional Homestead	\$25,000	\$25,000	\$25,000
Other Exemptions	\$500	\$50,500	\$50,500
Taxable Value Non-School	\$246,320	\$88,410	\$85,290
Taxable Value School	\$271,320	\$113,410	\$110,290

SALES/TRANSFERS

Date	Price	Type	Parcel	Deed
10/15/2020	\$348,000	WD	Improved	8891/2736
04/20/2000	--	QC	Improved	4154/3096
08/01/1971	\$27,400	--	--	1191/0173

Fig. 1: Copy of Property Appraiser's detail sheet for Lot 36, Block 5, Catalina Isle Estates Unit 4, 300 Surf Spray Drive, Merritt Island, Fl 32953, Section 23, Township 24 South, Range 36 East, District 2

Vicinity Map

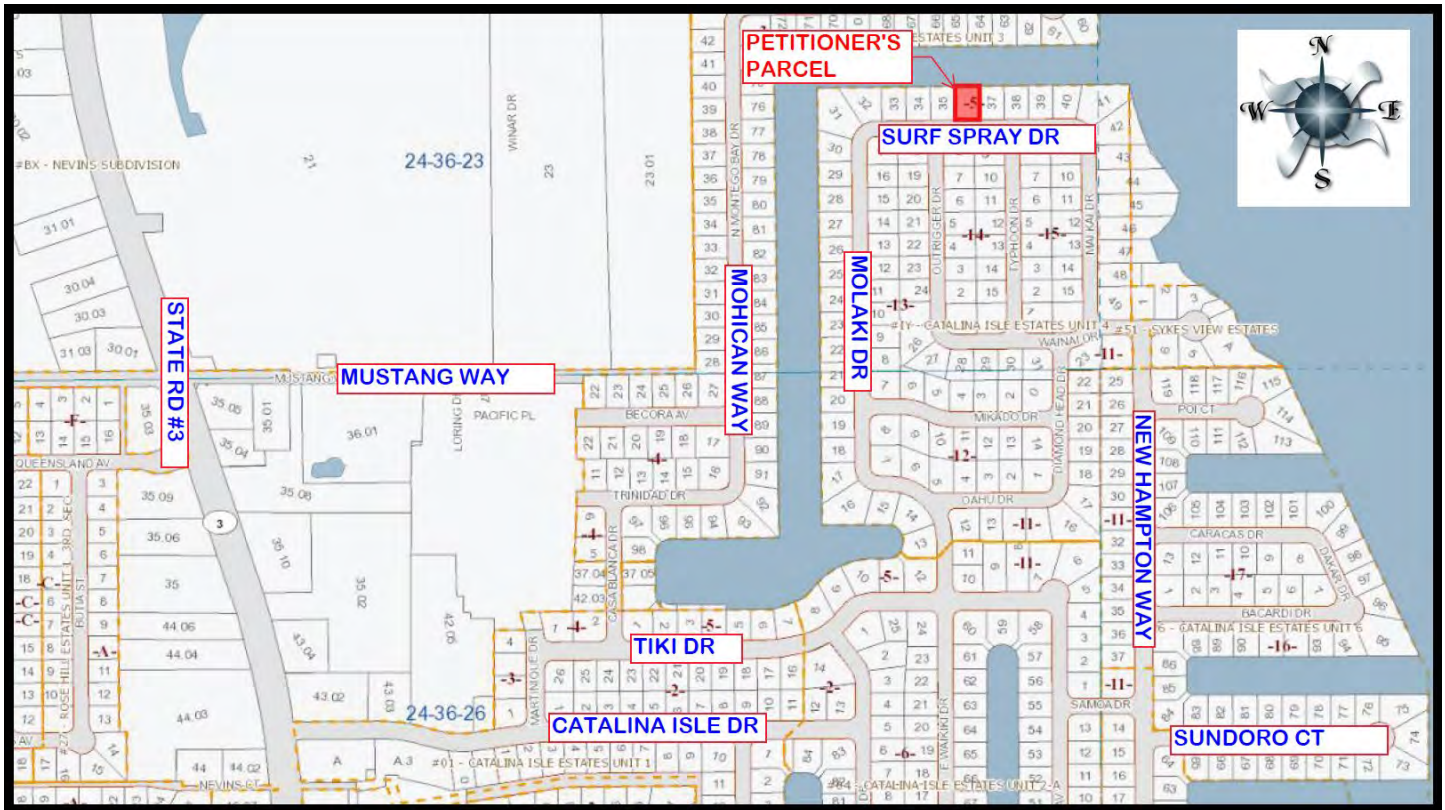


Fig. 3: Map of Lot 36, Block 5, Catalina Isle Estates Unit 4, 300 Surf Spray Drive, Merritt Island, FL 32953.

Clark D. & Theresa A. Kugler – 300 Surf Spray Dr – Merritt Island, FL, 32953 – Lot 36, Block 5, plat of “Catalina Isle Estates Unit 4” – Plat Book 20, Page 47 – Section 23, Township 24 South, Range 36 East – District 2 – Proposed Vacating of a portion of a 15.0 ft. Wide Public Utility & Drainage Easement

Aerial Map

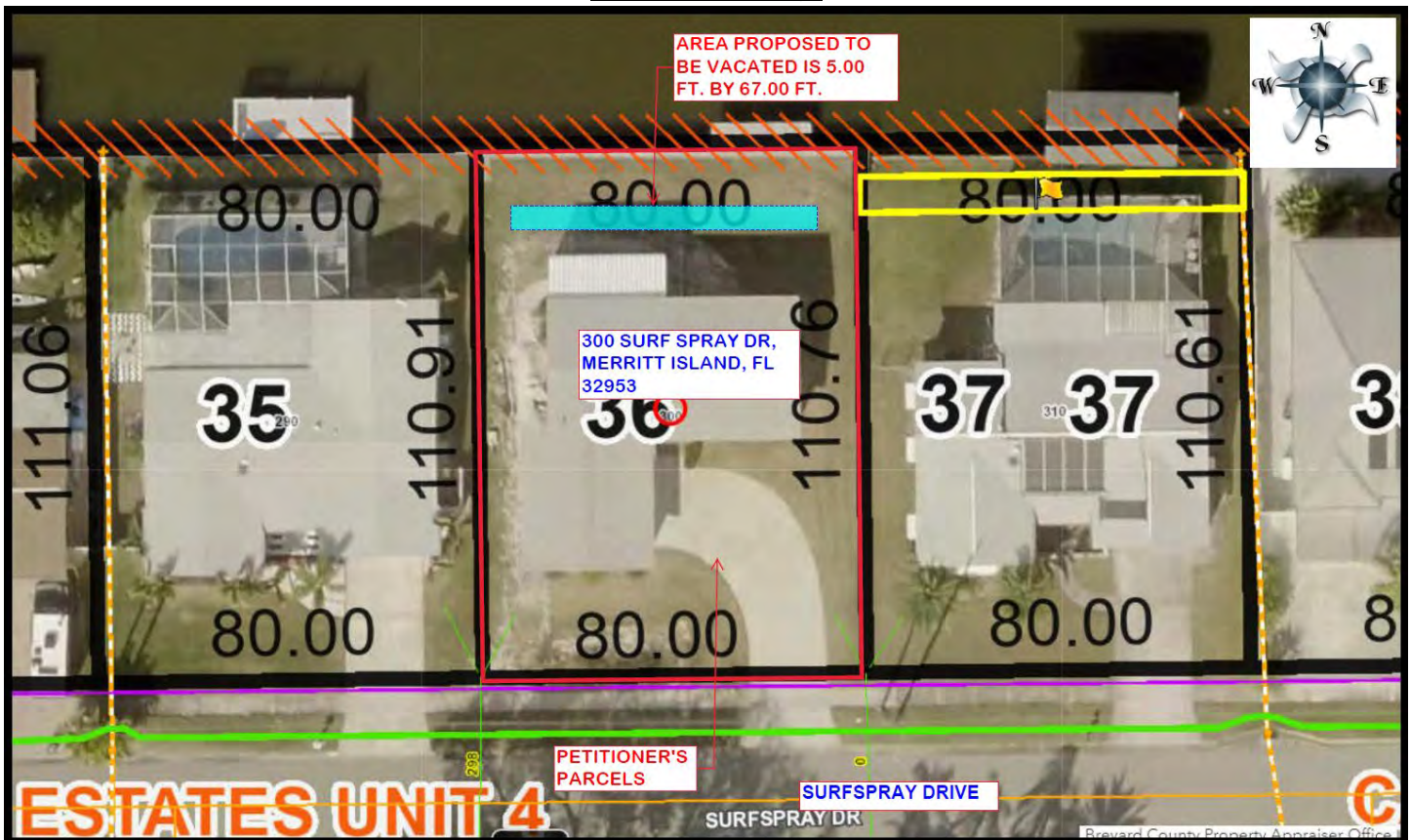


Fig. 4: Map of aerial view of Lot 36, Block 5, Catalina Isle Estates Unit 4, 300 Surf Spray Drive, Merritt Island, FL 32953.

Clark D. & Theresa A. Kugler – 300 Surf Spray Dr – Merritt Island, FL, 32953 – Lot 36, Block 5, plat of “Cataline Isle Estates Unit 4” – Plat Book 20, Page 47 – Section 23, Township 24 South, Range 36 East – District 2 – Proposed Vacating of a portion of a 15.0 ft. Wide Public Utility & Drainage Easement

Plat Reference

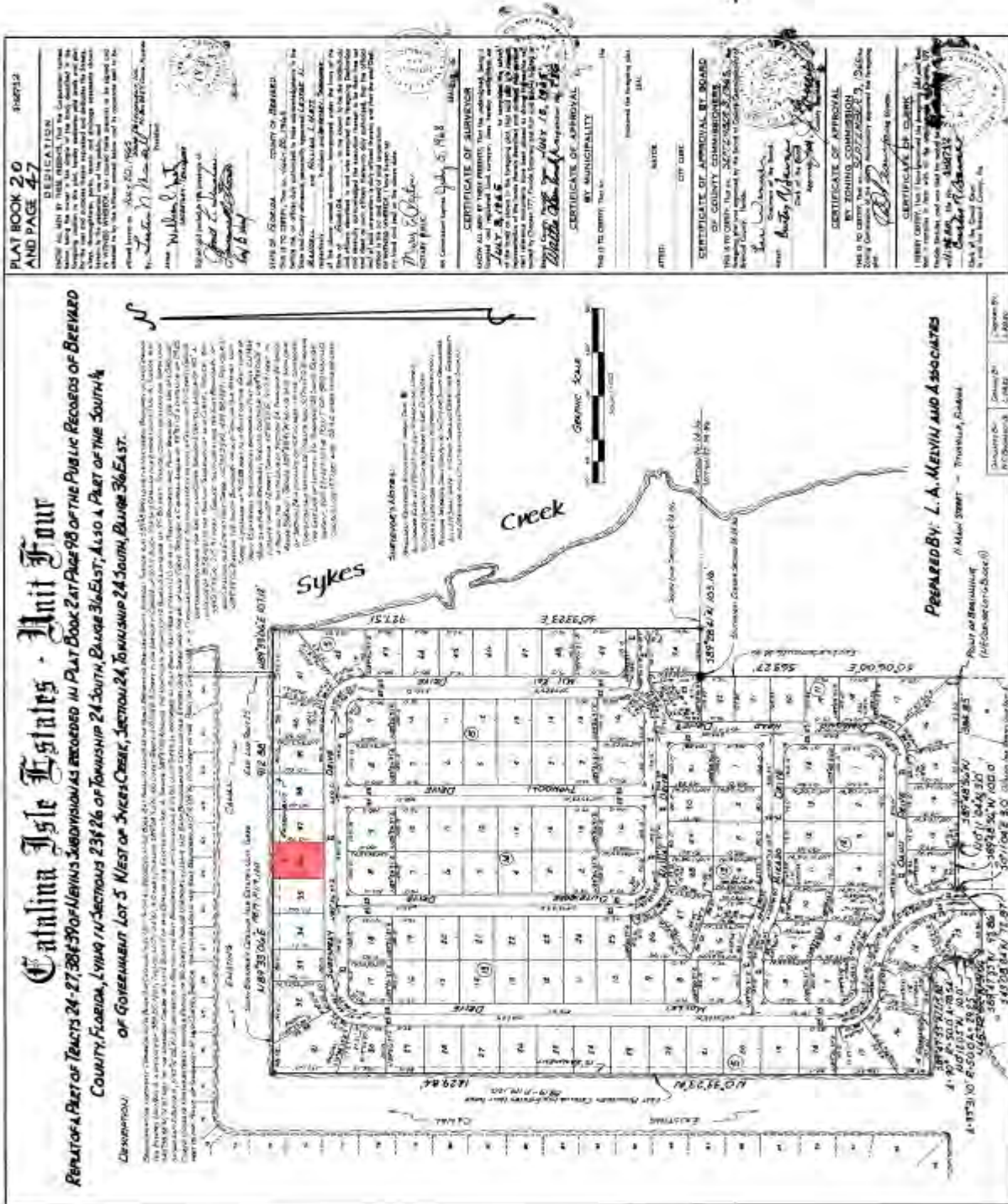


Fig. 5: Copy of plat map "Catalina Isle Estates Unit 4" dedicated to Brevard County September 15, 1965.

Petitioner's Sketch & Description Sheet 1 of 2

<u>LEGAL DESCRIPTION</u> SITUATED IN SECTION 23, TOWNSHIP 24 SOUTH, RANGE 36 EAST PARCEL ID# 24-36-23-1Y-5-36		SHEET 1 OF 2 NOT VALID WITHOUT THE SKETCH ON SHEET 2 OF 2		
PURPOSE OF SURVEY: VACATING A PORTION OF A 15 FOOT WIDE PRIVATE UTILITY AND DRAINAGE EASEMENT				
<u>LEGAL DESCRIPTION:</u> THAT PORTION OF A 15 FOOT WIDE PUBLIC UTILITY AND DRAINAGE EASEMENT DESCRIBED AS FOLLOWS: THE SOUTH 5 FEET OF THE NORTH 15 FEET OF THE EAST 67 FEET OF THE WEST 72 FEET OF LOT 36, BLOCK 5, CATALINA ISLE ESTATES UNIT FOUR, AS RECORDED IN PLAT BOOK 20, PAGES 47, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA. CONTAINING 335.0 FT., 0.00769 ACRES MORE OR LESS.				
<u>SURVEYOR'S NOTES:</u> 1. THE BASIS OF BEARINGS OF THE ABOVE DESCRIBED DESCRIPTION IS THE NORTH R/W LINE OF SURFSPRAY DRIVE, BEING S 89°26'37" W AS PER PLAT OF CATALINA ISLE ESTATES UNIT FOUR. 2. THE SKETCH ON SHEET 2 OF 2 IS NOT A BOUNDARY SURVEY, IT IS A SKETCH ONLY TO ACCOMPANY LEGAL DESCRIPTION. 3. THE IMPROVEMENTS SHOWN HEREON ARE BASED ON A BOUNDARY SURVEY PREPARED BY ERIC NIELSEN LAND SURVEYING, INC. DATED 07-28-2021				
<u>ABBREVIATION & SYMBOL LEGEND</u> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> C/L = CENTERLINE R/W = RIGHT-OF-WAY FND = FOUND LB = LICENSED BUSINESS LS = LICENSED SURVEYOR I.R. = IRON ROD L = LINE </td> <td style="width: 50%; vertical-align: top;"> I.R.C. = IRON ROD & CAP P.U.D.E. = PUBLIC UTILITY & DRAINAGE EASEMENT CONC. = CONCRETE EM = ELECTRIC METER WM = WATER METER </td> </tr> </table>			C/L = CENTERLINE R/W = RIGHT-OF-WAY FND = FOUND LB = LICENSED BUSINESS LS = LICENSED SURVEYOR I.R. = IRON ROD L = LINE	I.R.C. = IRON ROD & CAP P.U.D.E. = PUBLIC UTILITY & DRAINAGE EASEMENT CONC. = CONCRETE EM = ELECTRIC METER WM = WATER METER
C/L = CENTERLINE R/W = RIGHT-OF-WAY FND = FOUND LB = LICENSED BUSINESS LS = LICENSED SURVEYOR I.R. = IRON ROD L = LINE	I.R.C. = IRON ROD & CAP P.U.D.E. = PUBLIC UTILITY & DRAINAGE EASEMENT CONC. = CONCRETE EM = ELECTRIC METER WM = WATER METER			
PREPARED FOR: BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS		 SURVEYOR & MAPPER, PSM NO. 0005386 NOT VALID UNLESS SIGNED AND SEALED		
PREPARED BY: ERIC NIELSEN LAND SURVEYING, INC. L.B. 6946, 12 STONE STREET, SUITE 4, COCOA, FL. 32922 321-631-5654				
DRAWN BY: <u>T.N.</u>	CHECKED BY: <u>EN</u>	DRAWING NO. <u>21-385-07</u>		
DATE: <u>07-28-2021</u>	SHEET <u>1</u> OF <u>2</u>	REVISIONS _____		
SECTION <u>23</u> TOWNSHIP <u>24</u> SOUTH RANGE <u>36</u> EAST				

Fig. 6: Legal Description. Sheet 1 of 2. Legal description for a portion of a 15.00-foot public utility & drainage easement on Lot 36, Block 5, Catalina Isle Estates Unit 4.

Petitioner's Sketch & Description Sheet 2 of 2

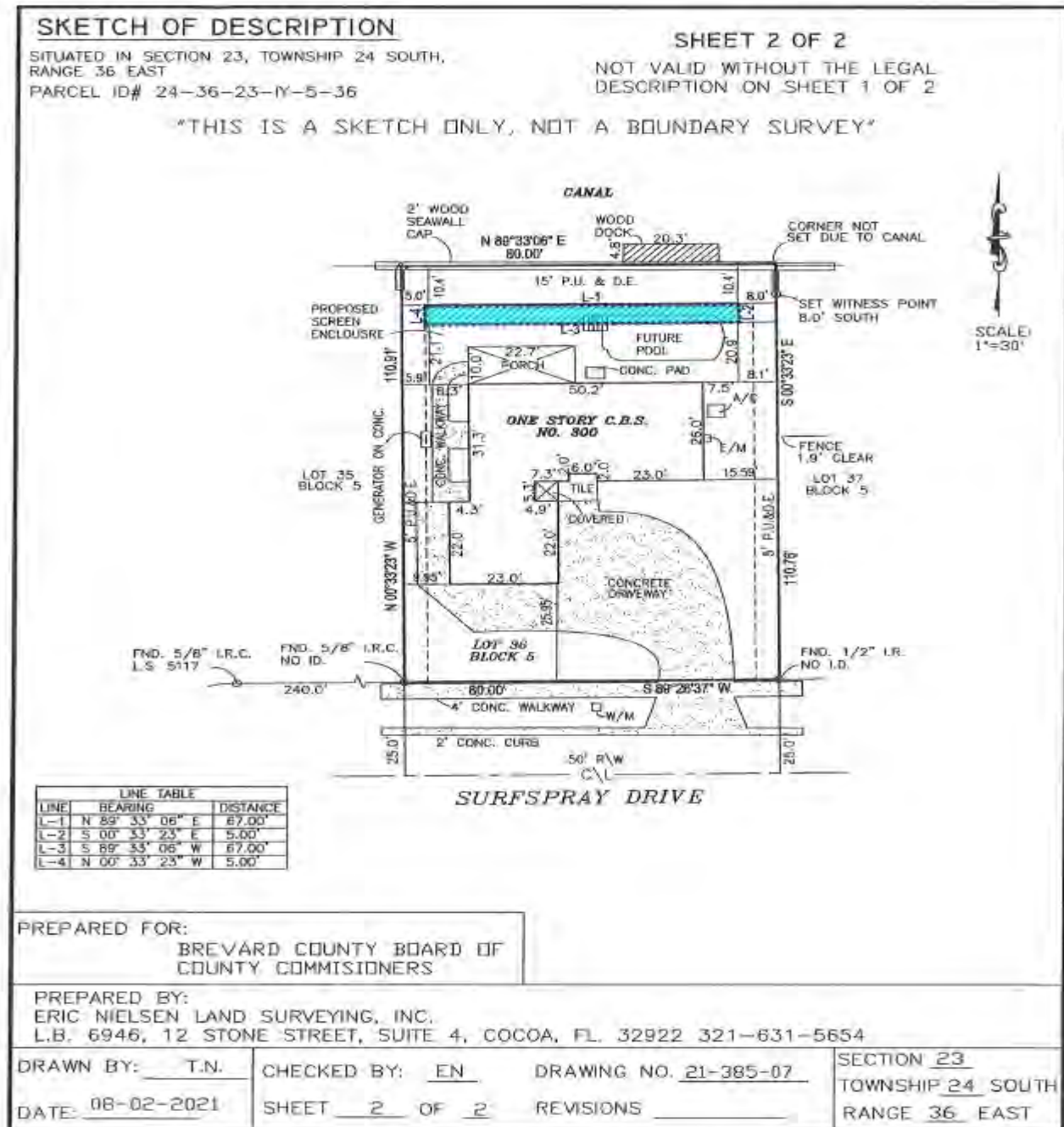


Fig. 7: Boundary survey. Situated in Section 23, Township 24 South, Range 36 East, Parent Parcel: #24-36-23-1Y-5-36. Sheet 2 of 2. Not valid without sheet 1 of 2. Sketch illustrates 5.00-foot of a 15.00-foot public utility & drainage easement on Lot 36, Block 5, Merritt Island, Florida. The coordinate of the North line depicted is as follows. North boundary – North 89°33'06" East 80.00'; East boundary – South 00°33'23" East 110.76'; South boundary – South 89°26'37" West 80.00'; West boundary – North 00°33'23" West 110.91'. Prepared by: Eric Nielsen Land Surveying, Inc., LB 6946, Drawing NO: 21-385-07.

Comment Sheet

Applicant: Clark and Theresa Kugler

Updated by: Amber Holley 20210917 at 1500 hours

Utilities	Notified	Received	Approved	Remarks
FL City Gas Co	20210903	20210908	Yes	No objections
FL Power & Light	20210903	20210909	Yes	No objections
At&t	20210903	20210917	Yes	No objections
Charter/Spectrum	20210903	20210904	Yes	No objections
City of Cocoa	20210903	20210907	Yes	No objections

County Staff	Notified	Received	Approved	Remarks
Road & Bridge	20210903	20210907	Yes	No objections
Land Planning	20210903	20210907	Yes	No objections
Utility Services	20210903	20210907	Yes	No objections
Storm Water	20210903	20210917	Yes	No objections
Zoning	20210903	20210907	Yes	No objections

Fig. 8: Copy of comment sheet for utility review.

Public Hearing Legal Advertisement

Ad#4922921

09/27/2021

LEGAL NOTICE

**NOTICE FOR THE PARTIAL VACATING OF
A 15.0 FT. WIDE PUBLIC UTILITY AND
DRAINAGE EASEMENT, PLAT OF
"CATALINA ISLE ESTATES UNIT FOUR" IN
SECTION 23, TOWNSHIP 24 SOUTH,
RANGE 36 EAST, MERRITT ISLAND, FL**

NOTICE IS HEREBY GIVEN that pursuant to Chapter 336.09, Florida Statutes, and Chapter 86, Article II, Section 86-36, Brevard County Code, a petition has been filed by CLARK D. AND THERESA A. KUGLER with the Board of County Commissioners of Brevard County, Florida, to request vacating the following described property, to wit:

THAT PORTION OF A 15-FOOT-WIDE
PUBLIC UTILITY AND DRAINAGE
EASEMENT DESCRIBED AS FOLLOWS:

THE SOUTH 5 FEET OF THE NORTH 15
FEET OF THE EAST 67 FEET OF THE WEST
72 FEET OF LOT 36, BLOCK 5, CATALINA
ISLE ESTATES UNIT FOUR, AS RECORDED
IN PLAT BOOK 20, PAGES 47, OF THE
PUBLIC RECORDS OF BREVARD COUNTY,
FLORIDA. CONTAINING 335.0 FT.,
0.00769 ACRES MORE OR LESS.
PREPARED BY: ERIC NIELSEN, PSM.

The Board of County Commissioners will hold a public hearing to determine the advisability of such vacating of the above-described easement at 5:00 P.M. on October 12, 2021 at the Brevard County Government Center Board Room, Building C., 2725 Judge Fran Jamieson Way, Viera, Florida, at which time and place all those for or against the same may be heard before final action is taken.

Pursuant to Section 286.0105, Florida Statutes, if a person decides to appeal any decision made by the board, agency, or commission with respect to the vacating, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is based.

Persons seeking to preserve a verbatim transcript of the record must make those arrangements at their own expense.

The needs of hearing or visually impaired persons shall be met if the department sponsoring the meeting/hearing is contacted at least 48 hours prior to the public meeting/hearing by any person wishing assistance.

Fig. 9: Copy of public hearing advertisement as published on September 27, 2021 see next page for full text.

Legal Notice Text

LEGAL NOTICE

NOTICE FOR THE PARTIAL VACATING OF A 15.0 FT. WIDE PUBLIC UTILITY AND DRAINAGE EASEMENT, PLAT OF "CATALINA ISLE ESTATES UNIT FOUR" IN SECTION 23, TOWNSHIP 24 SOUTH, RANGE 36 EAST, MERRITT ISLAND, FL

NOTICE IS HEREBY GIVEN that pursuant to Chapter 336.09, Florida Statutes, and Chapter 86, Article II, Section 86-36, Brevard County Code, a petition has been filed by CLARK D. AND THERESA A. KUGLER with the Board of County Commissioners of Brevard County, Florida, to request vacating the following described property, to wit:

THAT PORTION OF A 15-FOOT-WIDE PUBLIC UTILITY AND DRAINAGE EASEMENT DESCRIBED AS FOLLOWS: THE SOUTH 5 FEET OF THE NORTH 15 FEET OF THE EAST 67 FEET OF THE WEST 72 FEET OF LOT 36, BLOCK 5, CATALINA ISLE ESTATES UNIT FOUR, AS RECORDED IN PLAT BOOK 20, PAGES 47, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA. CONTAINING 335.0 FT., 0.00769 ACRES MORE OR LESS. PREPARED BY: ERIC NIELSEN, PSM.

The Board of County Commissioners will hold a public hearing to determine the advisability of such vacating of the above-described easement at 5:00 P.M. on October 12, 2021 at the Brevard County Government Center Board Room, Building C., 2725 Judge Fran Jamieson Way, Viera, Florida, at which time and place all those for or against the same may be heard before final action is taken.

Pursuant to Section 286.0105, Florida Statutes, if a person decides to appeal any decision made by the board, agency, or commission with respect to the vacating, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is based.

Persons seeking to preserve a verbatim transcript of the record must make those arrangements at their own expense.

The needs of hearing or visually impaired persons shall be met if the department sponsoring the meeting/hearing is contacted at least 48 hours prior to the public meeting/hearing by any person wishing assistance.



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Unfinished Business

I.1.

10/12/2021

Subject:

Recommendation of Legal Counsel Services for the Brevard County Charter Review Commission (CRC)

Fiscal Impact:

- Charter Review Commission Meetings - All inclusive rate of \$500.00 per meeting
- Litigation only Hourly Rate - \$250.00
- CRC approved tasks outside of CRC Meetings Hourly rate - \$225.00
- Necessary and Reasonable Legal Expenses incurred on behalf of the CRC at cost (i.e. court costs, filing fees, etc...)

Budget for Legal Counsel Services is \$50,000.00 (Total Cost of Contract will be based on total number of meetings attended, and any hours of legal counsel (litigation or CRC approved tasks) during the Charter Review Commission).

Funding is currently budgeted under Fund and Cost Center 0001-200540

Dept/Office:

Central Services Department / County Manager's Office

Requested Action:

It is Requested the Board of County Commissioners:

- Accept the recommendation of the Brevard County Charter Review Commission to enter into a contract for Legal Services with Weiss Serota Helfman Cole & Bierman P.L.;
- Authorize the BoCC Chair to execute a contract for services upon review by the County Attorney's Office, Risk Management, and Purchasing Services; and
- Authorize the BoCC to execute any necessary Contract Amendments or Extensions upon review and approval by the County Attorney's Office, Risk Management, and Purchasing Services.

Summary Explanation and Background:

On May 4, 2021, the Board authorized Purchasing Services to develop and advertise a Request for Qualifications (RFQ) for Legal Counsel Services to Serve as Counsel for the Brevard County Charter Review Commission.

On August 12, 2021 the Charter Review Commission approved the RFQ to obtain legal counsel services. The RFQ was advertised via Florida Today, DemandStar and Vendorlink on Thursday August 19, 2021 with a due date of September 10, 2021.

Purchasing Services received 5 responses to the RFQ. The responses were presented to the Charter Review

Commission during their regularly scheduled meeting on September 23, 2021 for evaluation and ranking.

The Charter Review Commission, acting as the selection committee, evaluated and ranked all the responses received. As indicated on the attached consolidated score sheet, the selection committee then motioned to enter into negotiations with Weiss Serota Helfman Cole & Bierman Law Firm as the highest ranked firm (receiving 8 of 13 first place votes and five second place votes). The motion passed unanimously.

The Charter Review Commission, acting as the negotiation committee, then entered into negotiations with Weiss Serota Helfman Cole & Bierman Law Firm and upon completion of negotiations, motioned to accept the negotiated rates as outlined below; the motion passed unanimously.

Negotiated Rates:

Charter Review Commission Meetings - All-inclusive rate of \$500.00 per meeting

Litigation only Hourly Rate - \$250.00

CRC approved tasks outside of CRC Meetings Hourly rate - \$225.00

Necessary and Reasonable Legal Expenses incurred on behalf of the CRC at cost (i.e. court costs, filing fees, etc...)

Based on the information above the Charter Review Commission recommends that the Board accept and approve their recommendation to award the contract for Legal Counsel Services to the Brevard County Charter Review Commission to the law firm of Weiss Serota Helfman Cole & Bierman, P.L.

Clerk to the Board Instructions:

None



SELECTION COMMITTEE CONSOLIDATED EVALUATION SCORESHEET

Any questions regarding the content of this notice should be directed to Summer Wyllie at (321) 617-7390

MEETING DATE: September 23, 2021

POSTING DATE: September 23, 2021 Through September 30, 2021 at 5:00 PM POSTED BY: Summer Wyllie

▼ Committee Member ▼	Gray Robinson, P.A.	Waugh Grant, PLLC	Weiss Serota Helfman Cole & Bierman, P.L.	Paul, Elkind, Branz & Paul, LLP	Shepard, Smith Kohlmyer & Hand, P.A.
Jordan Chandler	2	3	1	5	3
Robin Fisher	1	2	2	2	3
Mike Haridopolos	1	3	2	5	3
Tom Jenkins	2	5	1	3	4
Vic Luebker	2	5	1	4	3
Kendall Moore	3	3	1	3	2
Marcia Newell	2	5	1	3	4
Cole Oliver	3	3	2	5	1
Billy Prasad	3	4	1	5	2
Marie Rogerson	4	1	2	5	3
Sue Schmitt	4	5	2	3	1
Blaise Trettis	2	5	1	4	3
Bob White	2	4	1	4	3
TOTAL POINTS	31	48	18	51	35
RANKING	2	4	1	5	3

*** Motion by Committee Member Bob White, Second by Sue Schmitt to recommend award of the highest ranked firm, Weiss Serota Helfman Cole & Bierman, P.L., at a rate of \$225/hr for executive work, \$250/hr for litigative work, and \$500 flat fee per CRC meeting; to the Brevard County Board of County Commissioners on October 12, 2021. Motion passed unanimously.

Brevard County encourages prompt and fair handling of all complaints and disputes with the business community.
Filing of any disputes and appeals shall be in accordance with procedures specified in bid documents.

 Approval



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Unfinished Business

I.2.

10/12/2021

Subject:

Consideration and Approval of a Board Policy Relating to Commission District Office Annual Budgets

Fiscal Impact:

This policy establishes a cap on the annual budget for each Commission District Office, which will be adjusted annually for organization-wide increases.

Dept/Office:

Budget Office

Requested Action:

Board consideration and adoption of the attached policy, including all necessary budget change requests

Summary Explanation and Background:

On August 5, 2021, staff was requested to draft a policy related to Commission District Office Annual Budgets for Board consideration. The attached draft policy incorporates the input staff received during the August 5th Board meeting.

Clerk to the Board Instructions:

Return a signed copy of the BCC policy to the Budget Office.



BOARD OF COUNTY COMMISSIONERS

POLICY

Number: BCC#
Cancels:
Approved: September 14, 2021
Originator: Budget Office
Review: September, 2024

TITLE: COMMISSION DISTRICT OFFICE ANNUAL BUDGET

I. Objective

To establish annual budgets for Commission District Offices

II. Directives

- A. The annual budget for each Commission District Office for Fiscal Year 2021-2022 will be capped at \$380,000 for Compensation and Benefits, Travel, Office Supplies, Telephones, Memberships, Capital Outlay and other administrative costs.
- B. The District Office budgets at the capped amount will be adjusted annually for organization-wide increases including but not limited to cost of living adjustments, Florida Retirement System rates, and employee health insurance premiums. District budgets below the capped amount may be increased upon the request of the District Commissioner without further Board approval.
- C. Each District Office has discretion and approval over the line-items within their budget, to include out of State travel, and may align the expenses as they deem appropriate, as long as total expenditures remain within the total overall budget for that district.
- D. Approval to exceed the established capped budget for a Commission District Office will require Board approval.

Note: Building costs including rentals, electricity, water, and maintenance are funded by the Facilities Management budget, not the District Offices

III. Reservation of Authority

The authority to issue and/or revise this policy is reserved to the Board of County Commissioners

Rita Pritchett, Chair
Brevard County
Board of County Commissioners
As approved by the Board on _____

ATTEST:

Rachel Sadoff, Clerk



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

New Business - Development and Environmental Services Group

J.1.

10/12/2021

Subject:

Approval of a letter request to the U.S. Army Corps of Engineers for a Section 206 study of the feasibility of an ecosystem restoration project at the 528 Causeway in the Banana River

Fiscal Impact:

The first \$100,000 of initial investigation is 100% federal

Any additional feasibility study cost requires 50% non-federal match

Project design and construction, if feasible, requires 35% non-federal match

Dept/Office:

Natural Resources

Requested Action:

Approve the Chair to sign a letter request to the U.S. Army Corps of Engineers requesting a Section 206 study of the feasibility of an ecosystem restoration project to remove the earthen causeway in the Banana River under Highway 528

Summary Explanation and Background:

Slow flow and long residence/retention times makes certain segments of the Indian River Lagoon in Brevard County highly vulnerable to nutrient pollution and harmful algal blooms. Several modeling efforts indicate that causeways contribute to compartmentalization and flow restriction. The northernmost segment of the Banana River has experienced intense and prolonged algal blooms contributing to a dramatic loss of seagrass and associated fish and marine life.

The U.S. Army Corps of Engineers has a program to investigate the potential benefits and cost effectiveness of locally sponsored ecosystem restoration projects. Through this program, the Army Corps can investigate the extent to which the causeway supporting Highway 528 across the Banana River contributes to ongoing water quality issues, associated harmful algae blooms, consequential seagrass losses, and whether removal or modification of the causeway could be a significant part of ecosystem restoration for seagrass, fish and marine life.

The attached letter, would request an investigation and express the County's willingness to serve as the study sponsor. The first \$100,000 of the initial investigations would be 100% federally funded. Feasibility study costs in excess of \$100,000 would be cost shared 50%-50%. The non-federal cost share for project design and construction is 35%, if a feasible plan is identified. The sponsor's cost share may include cash, work in-kind, or a combination and will be delineated in a

Project Partnership Agreement, to be executed before construction commences.

Prior Board Action and Community Support for Examining Causeway Impacts and Options:

On February 26, 2019 the County Commission approved a recommendation from the Save Our Indian River Lagoon Citizen Oversight Committee to request the Florida Department of Transportation (FDOT) evaluate options to improve circulation by replacing portions of the State Road 528 and 520 causeways over the Banana River with elevated bridge spans. A letter was sent from the Commission Chair to the Secretary of FDOT, District 5.

On December 5, 2018 the Canaveral Port Authority adopted a resolution supporting efforts to study and evaluate improvements to 528 and 520 that would benefit the lagoon, the economy and the resilience of essential transportation corridors and infrastructure.

On March 14, 2019 the Space Coast Transportation Planning Organization adopted a resolution asking FDOT to evaluate causeway impacts and estimate the costs of bridge and causeway alterations.

On February 8, 2019 the 5-county collaborative Indian River Lagoon Council approved a resolution supporting planning studies for 528 and 520 transportation improvements beneficial to Indian River Lagoon restoration.

On August 20, 2020 a letter was sent on behalf of the Indian River Lagoon Council to a new Secretary of FDOT, District 5 reiterating the need for the State Road 528 design to consider Indian River Lagoon water quality improvement options, including quantification of costs and benefits, and addressing coastal vulnerability concerns.

Most recently, on August 24, 2021, at the request of the Economic Development Commission, the County Commission approved sending a letter to the Army Corps of Engineers requesting a feasibility study for restoration of natural water flow and wetlands associated with transportation corridors serving the Kennedy Space Center. On August 30, 2021 Congressman Bill Posey sent a letter to the Army Corps of Engineers supporting the County Commission's request. Congressman Posey noted the national and regional economic and ecosystem benefits of addressing the federal legacy of impacts on the Indian River Lagoon.

Clerk to the Board Instructions:

None, if approved, Natural Resources will coordinate with the Chair to print the letter on the proper letterhead and send the signed letter to the Army Corps

District Engineer
U.S. Army Corps of Engineers
Jacksonville District
Attn: CESAJ-PM
P.O. Box 4970
Jacksonville, FL 32232-0019

RE: Section 206 request to determine the feasibility of an ecosystem restoration project where Highway 528 crosses the Banana River portion of the Indian River Lagoon in Brevard County, FL

Dear Sir:

This letter is to request that the U.S. Army Corps of Engineers, Jacksonville District, conduct a study under Section 206 of the Water Resources Development Act of 1996, as amended, to determine the feasibility of an ecosystem restoration project where the earthen causeway supporting Highway 528 crosses the Banana River segment of the Indian River Lagoon in Brevard County, Florida.

The Indian River Lagoon, designated by Congress as an estuary of national significance, extends along 40% of Florida's east coast. Its historically high biological diversity and abundance includes 4,300 species, many of economic value or federally listed as threatened or endangered species. For the last decade, harmful algal blooms have limited light penetration to the shallow seagrass beds and decimated this critical habitat for marine life. In 2020 and 2021, the paucity of surviving seagrass led to mass starvation of hundreds of manatees in Brevard County, the hub of the east coast manatee population, a federally listed threatened species.

Slow flow and long residence/retention times makes certain segments of this national estuary more vulnerable to nutrient pollution and harmful algal blooms. In particular, the Banana River, and especially the northernmost compartment of the Banana River, has experienced the most dramatic loss of seagrass areal extent. Several modeling efforts indicate that causeways across the Banana River contribute to compartmentalization, restricting the exchange of nutrient rich waters in the northern end of the Banana River with better quality water to the south.

Brevard County requests that the U.S. Army Corps of Engineers, Jacksonville District, undertakes an investigation of the extent to which the causeway supporting Highway 528 across the Banana River segment of the Indian River Lagoon contributes to ongoing water quality issues, associated harmful algae blooms, consequential seagrass losses, and whether removal or modification of the causeway could be a significant part of ecosystem restoration, benefitting seagrass, fish and marine life. Brevard County hereby requests an investigation and expresses our willingness to serve as the study sponsor.

Brevard County understands that the first \$100,000 of the initial investigations would be Federally financed and feasibility study costs in excess of \$100,000 would be cost shared 50%-50%. Further we understand that the non-federal cost share for project design and construction is 35%, if a feasible plan is identified. The sponsor's cost share may include cash, work in-kind, or a combination.

If studies indicate a viable solution, our objective will be to proceed with construction. We are also aware that the Corps' and local sponsor's responsibilities will be delineated in the Project Partnership Agreement, which both parties will execute before construction commences.

If you need additional information, please contact Virginia Barker, Natural Resources Management Department Director at 321-350-8411 or virginia.barker@brevardfl.gov.

Sincerely,

Rita Pritchett, Chair
Brevard County Board of County Commissioners

As approved by the Board on September 14, 2021



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001
Fax: (321) 264-6972
Tammy.Rowe@brevardclerk.us

February 27, 2019

M E M O R A N D U M

TO: Virginia Barker, Natural Resources Management Director

RE: Item F.3., Consideration of Support for a Florida Department of Transportation (FDOT) Causeway Improvement Study of State Roads 528 and 520

The Board of County Commissioners, in regular session on February 26, 2019, approved recommendation from the Save Our Indian River Lagoon Citizen Oversight Committee supporting requests to the Florida Department of Transportation (FDOT) to evaluate options to improve water circulation by replacing portions of the State Road (SR) 528 and 520 causeways with elevated bridge spans over the Banana River.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

Tammy Rowe

Tammy Rowe, Deputy Clerk



BOARD OF COUNTY COMMISSIONERS

KRISTINE ISNARDI, COMMISSIONER, DISTRICT 5
490 Centre Lake Dr. NE
Suite 175
Palm Bay, FL 32907
Phone: 321.253.6611
Fax: 321.253.6620
D5.Commissioner@brevardfl.gov

Danielle Stern, Chief of Staff
Vic Luebker, Community Affairs Director
Janette Roig, Legislative Aide

February 26, 2019

Mr. Mike Shannon
Secretary, FDOT District 5
719 S. Woodland Blvd.
Deland, FL 32720

RE: SR 528 Widening Design Could Potentially Benefit Indian River Lagoon Health

Dear Mr. Shannon:

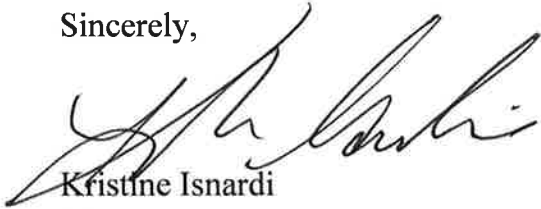
The Brevard County Commission is aware that FDOT is working on plans to widen the critically important SR 528 transportation corridor from Industry Road to the Port Canaveral Interchange, over the Indian River and Banana River. This work provides an exceptionally rare opportunity to consider infrastructure improvements that will improve transportation in a manner that could also provide decades of improved circulation within a highly impaired and unnaturally stagnant section of the Banana River.

The health of the Indian River Lagoon National Estuary is critically important to the social fabric and economic well-being of Brevard County. The County Commission is aware of recent modeling conducted by Dr. Gary Zarillo for the Indian River Lagoon National Estuary Program, with funding cost share from the Canaveral Port Authority. This modeling indicates that replacing sections of the SR 520 and SR 528 causeways with open bridge spans could significantly improve natural circulation (up to 9-10%) which could disrupt the harmful algal blooms that currently plague this section of the estuary.

From 2011 to present, the Banana River between SR 520 and SR 528 has experienced intense algal blooms that have decimated the seagrass community, seagrass dependent marine life, fisheries and associated commercial and recreational industries. In 2016, this section of the lagoon experienced the worst fish kill reported in the history of the Brevard, making international headlines that negatively impacted the Space Coast brand and tourism economy.

Due to the substantial environmental and economic challenges specific to this section of the lagoon, and this rare opportunity to provide significant water quality improvements to a National Estuary, the County Commission respectfully requests that FDOT give great consideration to the cost and benefits of bridge span improvements over the Banana River.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kristine Isnardi', written over the printed name.

Kristine Isnardi

Chair

Brevard County Board of County Commissioners

cc: Loreen Bobo, District 5 Director of Transportation Development
Georganna Gillette, Executive Director, Space Coast TPO
Frank Abbate, County Manager
John Denninghoff, Assistant County Manager
Virginia Barker, Natural Resources Management Director

**CANAVERAL PORT AUTHORITY
RESOLUTION # RES-2018-014-EXE-3
A RESOLUTION IN SUPPORT OF THE INCLUSION OF IMPROVEMENTS BENEFICIAL TO
THE INDIAN RIVER LAGOON SYSTEM RESTORATION AND REGIONAL INFRASTRUCTURE
IN PLANNING STUDIES FOR
STATE ROAD 528 AND STATE ROAD 520**

WHEREAS, the Indian River Lagoon ("Lagoon") is a diverse, shallow-water estuary stretching across 40 percent of Florida's East Coast;

WHEREAS, the Lagoon represents a complex estuarine ecosystem comprised of three water bodies: the Indian River, Mosquito Lagoon and Banana River that together have been designated as an "Estuary of National Significance" by the U.S. Congress in 1990;

WHEREAS, the Lagoon supports important commercial and recreational fisheries and economic resources that are vital to the interests of the Port District, the region, the State of Florida and the nation with an estimated annual economic impact of \$7.6 billion;

WHEREAS, the Lagoon has become one of the most vulnerable estuaries in Florida that is threatened throughout its geographic range and watershed by water quality decline, habitat alteration and loss, fisheries decline, loss of biological diversity, and altered hydrologic flow;

WHEREAS, the earthen causeways for State Road (SR) 528 and SR 520 have an impact on the natural water flow and impede dispersal mechanisms of the Indian River Lagoon;

WHEREAS, the Florida Department of Transportation (FDOT) is a key partner with the Canaveral Port Authority in planning and construction of intermodal and port facility projects;

WHEREAS, FDOT is conducting a causeway improvement study (FM #407402-3&4) for the future widening of SR 528 (the "Project") and has plans to conduct future studies for SR 520;

WHEREAS, the Project is listed as a priority by the Central Florida Metropolitan Planning Organization Alliance and the Space Coast Transportation Planning Organization on which the Canaveral Port Authority serves as a Member of the Governing Board;

WHEREAS, both SR 528 and SR 520 are designated hurricane evacuation routes;

WHEREAS, SR 528 serves as an essential transportation corridor that links the goods entering Port Canaveral (including fuel) to all of Central Florida for hurricane preparedness and during post-hurricane response and recovery periods;

WHEREAS, the Canaveral Port Authority partnered with the Indian River Lagoon National Estuary Program and Indian River Lagoon Council to complete a study of potential improvements to improve the flushing of the Indian River Lagoon system based on increasing bridge spans, adding additional relief spans, and elevating portions of the causeways;

WHEREAS, the study, *Numerical Model Flushing Experiments, Final Report*, dated September 2018 was presented at the regularly scheduled meeting of the Canaveral Port Authority's Board of Commissioners on October 31st, 2018;

WHEREAS, the results of the study conservatively show that flushing may be improved by almost 10% with causeway elevating alterations to SR 528 and SR 520; and

WHEREAS, causeway elevating alterations can provide 21st century transportation corridor improvements that deliver the following additional benefits: improved infrastructure resiliency to storm surge, shoreline erosion and sea level rise; restoration of Lagoon bottom lost during causeway construction; restoration of historic sea grass beds lost in causeway construction; improved recreational fishing associated with elevated roadway structure; and opportunities for long-term mitigation planning.

NOW, THEREFORE, BE IT RESOLVED, THE CANAVERAL PORT AUTHORITY in a regularly scheduled meeting assembled on December 5, 2018, supports FDOT's efforts to study and evaluate infrastructure improvements options to SR 528 and SR 520 and encourages the inclusion of any and all infrastructure improvements that will benefit the Lagoon, the economy and the resiliency of essential transportation corridors and infrastructure.

DONE, ORDERED AND ADOPTED, this 5th day of December 2018 at Port Canaveral, Brevard County, Florida.

CANAVERAL PORT AUTHORITY:


Secretary/Treasurer **Bob Harvey**


Micah Loyd Chairman



RESOLUTION 19-15

SR 528 IMPROVEMENTS BENEFICIAL TO THE INDIAN RIVER LAGOON SYSTEM

RESOLUTION, supporting FDOT's evaluation of infrastructure improvements related to the SR 528 projects that benefit the Indian River Lagoon System.

WHEREAS, the Space Coast Transportation Planning Organization (TPO) is the designated and constituted body responsible for the urban transportation planning and programming process for the Palm Bay-Melbourne-Titusville Urbanized Area; and

WHEREAS, freight movement along SR 528 represents the lifeblood of economic activity, providing direct east/west access to Port Canaveral, facilitating both commerce and the supply of vital goods to residents and visitors of Central Florida; and

WHEREAS, the Florida Department of Transportation is currently designing the SR 528 widening and bridge replacements from Industry Road to SR 401 (FM No. 407402-3 & 4); and

WHEREAS, a recent Florida Institute of Technology Study, 2018 Numerical Modal Flushing Study, determined that modification of the SR 528 and SR 520 causeway and bridge structures may provide flushing benefits by 9-10% based on increasing bridge spans, adding additional relief spans, and elevating portions of the causeways.

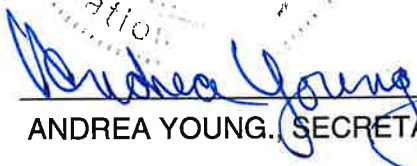
NOW, THEREFORE, BE IT RESOLVED by the Space Coast Transportation Planning Organization that

1. FDOT continue evaluating the 2018 Numerical Modal Flushing Experiment Study; and
2. FDOT provide an estimate of the additional costs and impacts related to the proposed SR 528 bridge and causeway alterations and a summary of steps that would be required to implement the proposed improvements; and
3. FDOT continue evaluating regional and joint environmental projects that would provide benefit to the water quality of the Indian River Lagoon system; and
4. FDOT finalize all evaluations and cost estimates expeditiously to reach a conclusion.

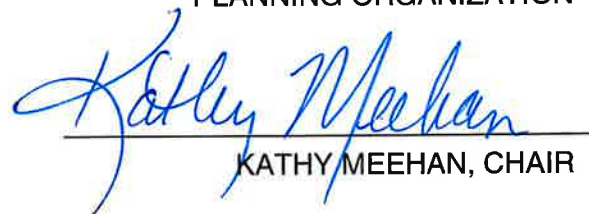
DONE, ORDERED AND ADOPTED THIS 14TH DAY OF March, 2019.

ATTEST:

SEAL


ANDREA YOUNG, SECRETARY

SPACE COAST TRANSPORTATION
PLANNING ORGANIZATION


KATHY MEEHAN, CHAIR

IRL COUNCIL RESOLUTION 2019-03
A RESOLUTION IN SUPPORT OF THE INCLUSION OF IMPROVEMENTS
BENEFICIAL TO THE INDIAN RIVER LAGOON SYSTEM RESTORATION AND
REGIONAL INFRASTRUCTURE IN PLANNING STUDIES FOR
STATE ROAD 528 AND STATE ROAD 520

WHEREAS, the Indian River Lagoon ("Lagoon") is a diverse, shallow-water estuary stretching across 40 percent of Florida's East Coast; and

WHEREAS, the Lagoon represents a complex estuarine ecosystem comprised of three water bodies: the Indian River, Mosquito Lagoon and Banana River that together have been designated as an "Estuary of National Significance" by the U.S. Congress in 1990; and

WHEREAS, the Lagoon supports important commercial and recreational fisheries and economic resources that are vital to the interests of the region, the State of Florida and the nation with an estimated annual economic impact of \$7.6 billion; and

WHEREAS, the Lagoon has become one of the most vulnerable estuaries in the United States that is threatened throughout its geographic range and watershed by water quality decline, habitat alteration and loss, fisheries decline, loss of biological diversity, and altered hydrologic flow; and

WHEREAS, the earthen causeways for State Road (SR) 528 and SR 520 have impacted the natural water flow of the Lagoon and impede dispersal mechanisms of Lagoon organisms; and

WHEREAS, the Florida Department of Transportation (FDOT) is a key partner with the Canaveral Port Authority in planning and construction of intermodal and port facility projects; and

WHEREAS, FDOT is conducting a causeway improvement study (FM #407402-3&4) for the future widening of State Road 528 (the "Project") and has plans to conduct future studies for State Road 520; and

WHEREAS, the Project is listed as a priority by the Central Florida Metropolitan Planning Organization Alliance and the Space Coast Transportation Planning Organization on which the Canaveral Port Authority serves as a Member of the Governing Board; and

WHEREAS, both SR 528 and SR 520 are designated hurricane evacuation routes; and

WHEREAS, SR 528 serves as an essential transportation corridor that links the goods entering Port Canaveral (including fuel) to all of Central Florida for hurricane preparedness and during post-hurricane response and recovery periods; and

WHEREAS, the Canaveral Port Authority partnered with the IRL Council (an independent, special district of Florida) and Indian River Lagoon National Estuary Program (IRLNEP) to complete a study of potential improvements to improve the flushing of the Lagoon system based on increasing bridge spans, adding additional relief spans, and elevating portions of the causeways;

WHEREAS, the study, Numerical Model Flushing Experiments, Final Report, dated September 2018 was presented at the regularly scheduled meeting of the Canaveral Port Authority's Board of Commissioners on October 31, 2018;


WHEREAS, the results of the study show that flushing may be improved by almost 10% with causeway elevating alterations to SR 528 and SR 520; and

WHEREAS, causeway elevating alterations can provide 21st century transportation corridor improvements that deliver the following additional benefits: Improved infrastructure resiliency to storm surge; Shoreline erosion and sea level rise; Restoration of Lagoon bottom lost during causeway construction; Restoration of historic sea grass beds lost in causeway construction; Improved recreational fishing associated with elevated roadway structure; and Opportunities for long-term mitigation planning.

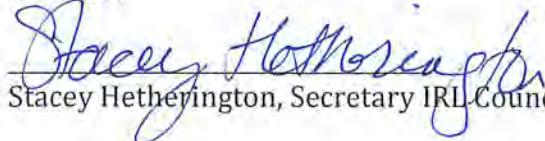
NOW, THEREFORE, BE IT RESOLVED, THE IRL COUNCIL in a regularly scheduled meeting assembled on February 8, 2019, supports FDOT's efforts to study and evaluate infrastructure improvements options to SR 528 and SR 520 and encourages the inclusion of any and all infrastructure improvements that will benefit the Lagoon, the economy and the resiliency of essential transportation corridors and infrastructure.

DONE at New Smyrna Beach Florida, this 8th day of February 2019.

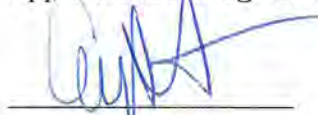
By:


Deb Denys, Chair IRL Council

ATTEST:


Stacey Hetherington, Secretary IRL Council

Approved as to legal form and sufficiency:


Carolyn S. Ansay
IRL Council, Legal Counsel



ONE LAGOON

ONE COMMUNITY · ONE VOICE

INDIAN RIVER LAGOON
NATIONAL ESTUARY PROGRAM

*Board of Directors of the
IRL Council, sponsor of the
Indian River Lagoon
National Estuary Program:*

Susan Adams

IRL Council Chair
Indian River County
Commission

Stacey Hetherington

IRL Council Vice-chair, Martin
County Commission

Curt Smith,

IRL Council Secretary
Brevard County Commission

Billie Wheeler

Volusia County Council

Chris Dzadovsky

St. Lucie County Commission

Aaron Watkins

Director, Central District,
Florida Department of
Environmental Protection

Doug Bournique

Governing Board, St. Johns
River Water Management
District

Jacqui Thurlow-Lippisch

Governing Board, South
Florida Water Management
District

César Zapata

U.S. Environmental
Protection Agency, Region 4

August 20, 2020

Attention: Mr. Jared Perdue, Secretary, FDOT District Five
Ms. Georganna Gillette, Executive Director, Space Coast TPO

On February 8, 2019, the IRL Council, an independent special district of Florida, passed Resolution 2019-03 supporting FDOT's efforts to study and evaluate infrastructure improvement options to SR 528 and SR 520. The resolution encouraged the inclusion of "any and all infrastructure improvements that will benefit the Lagoon, the economy and the resiliency of essential transportation corridors and infrastructure".

To address a lack of current information from FDOT to guide water quality considerations and to provide due diligence support for the discussion, Port Canaveral and the IRL Council contracted for water flow modeling from Dr. Gary Zarillo, Florida Institute of Technology. Results from those model runs showed that by expanding the bridge opening at the 528 Causeway on the Banana River section, water flow improvements between 9-17% could be realized if coupled with similar future improvements to the south at SR 520 Causeway. This range of water flow improvement was influenced by a variety of wind and freshwater flow conditions. This range represents a significant water flow improvement that should not be ignored. Compartmentalization of the Banana River created by original dredge and fill causeway construction decades ago is significant. The resulting decrease in water flow has increased the vulnerability of this section of the lagoon to nutrient pollution and other detrimental inputs.

In addition to hydrological modeling, Dr Zarillo provided sea level rise data that considered both global sea level trends and important Florida east coast regional water level trends. A detailed review of infrastructure risk exposure to sea level rise and climate change was not considered in the FDOT analysis.

To fully understand infrastructure vulnerabilities, analyses must integrate global trends, regional and seasonal sea level variability, and storm surge vulnerabilities. The current linear trend methodology used by FDOT to estimate future sea level rise is both outdated and not supported by recent coastal infrastructure resilience planning.

In 2017, the Space Coast Transportation Planning Organization (SCTPO) took a strong leadership role in resiliency planning by completing a Sea Level Rise Vulnerability Assessment. SCTPO also participated in the creation of the East Central Florida Regional Planning Council's Regional Resiliency Action Plan and adopted the plan in March 2019. The FDOT sea level rise analysis does not align with these local plans. Dr. Zarillo's work has been presented to FDOT. To date, these data have not received full FDOT consideration.

In addition to the Florida Tech models, the SJRWMD made a significant investment in their modeling team to expand the scope of their Indian River Lagoon hydrological model to include projections of water quality parameters. All of these data were shared with FDOT and the SCTPO Governing Board. This leading-edge effort provided a new tool for data-driven decision-making regarding nutrient loads and project evaluation. It promises to be a valuable evaluation tool for FDOT and local partners to guide mitigation planning and decision-making. Results from these SJRWMD model runs demonstrated the value of reducing nutrient loads from land-based sources to attain water quality improvements. The SJRWMD hydrological model aligned well with the work of Dr. Zarillo. The bottom line is that we will need to accomplish both water flow improvements and aggressive nutrient reduction interventions to achieve desired water quality improvements in the Banana River.

In July 2020, the SCTPO moved toward decision-making on the existing design of SR 528. Presentations were made to SCTPO advisory committees and the Governing Board that included the SJRWMD hydrology-biological response findings; IRL Council summary of Dr. Zarillo's findings and other IRL considerations; and a current update from FDOT regarding a nutrient reduction mitigation strategy.

The IRLNEP applauds FDOT staff for reexamining mitigation strategies that focus on quantifiable nutrient reductions. FDOT's comparisons to traditional stormwater approaches clearly showed the limitations of our past mitigation thought process related to water quality. However, important questions were posed by the SCTPO Governing Board members that remained unanswered or were answered with insufficient detail. After more than 3 years of discussions, potential options to current design have not been fully considered.

On July 31, 2020 the IRL Council Board of Directors discussed these important infrastructure and water quality issues. Concerns were raised about the lack of attention to consider water flow improvements that could be delivered by a low span bridge extension or other engineered options to improve the current design.

As a result of staff discussions with IRL Council Board members and discussion during the July 31, 2020 Board meeting, the IRL Council Board of Directors, respectfully offer the following recommendations:

- Reducing causeway flow restrictions at SR 528 represents a one-time opportunity to restore natural flow to the Indian River Lagoon, decrease vulnerability to nutrients and pollutants and improve an estuary of national significance that contributes over \$7.6 billion to the regional economy. Any and all actions that advance those improvements should be fully considered.
- Although direct comparisons are difficult to assess from site to site based on hydrology, tides and flushing characteristics, FDOT has demonstrated its ability to implement water quality improvements in a number of locations throughout the state. Water flow matters to both the hydrology and biology of a healthy estuary. Water flow improvement should be a desired outcome of this transportation corridor improvement.
- A decision to push forward with current design will deliver two extra lanes and improved elevation. At best, this represents an incremental improvement with little consideration for

long-range visioning for this critical transportation corridor. We have a historic opportunity to address a long-standing water quality problem caused by causeway construction.

- The importance of SR 528 to the State of Florida grows with delivery of essential services at Port Canaveral coupled with the historic expansion of both public and commercial space launch capabilities at Kennedy Space Center. Re-imagining this corridor with a 50- to 70-year vision is a catalytic and historic transportation visioning opportunity that should not be ignored.
- The current and future safety of Florida's residents and visitors and our economy depend on having coastal infrastructure that is resilient to both sea level rise and storm surge. The best available science and engineering design must be considered as we plan for sea level rise, increased storms and storm surge events. The focus of these emerging challenges will be borne first and foremost by fragile barrier island communities.

Governor Ron DeSantis has taken bold, visionary, leadership actions to advance clean water and coastal resilience for the State of Florida. These are historic policy and investment priorities. The IRL Council and IRLNEP support the Governor's vision for Florida's future. It is with that vision and spirit that we share the following IRL Council Board of Director's position:

The current design plan for SR 528 needs to reconsider Indian River Lagoon water quality improvement options, including quantification of costs and benefit values. We believe that design options exist that can address these important water quality and coastal vulnerability concerns. SR 528 decisions should be driven by one question and one question only: What is the right thing to do to secure Florida's clean water future and optimize multiple benefits over the life of this essential corridor project?

The IRL Council and IRLNEP stand ready and willing to assist the SCTPO and FDOT in any way that we can to advance discussions about design options to address these important water quality concerns. A decision to move forward, as designed and without these option considerations, will remove a once in a generation opportunity to make a transportation legacy decision for Florida that will serve our citizens and our quality of life as we move through this 21st century.

On behalf of the IRL Council Board of Directors, we thank you for your time and thoughtful consideration.

Regards,



Duane De Freese, Ph.D.

Executive Director, IRL Council & Indian River Lagoon National Estuary Program

Copies:

IRL Council Board of Directors

Captain John W. Murray, Port Canaveral Director and Chief Executive Officer

Robert Musser, Port Canaveral Senior Director, Environmental



Kimberly Powell, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001
Fax: (321) 264-6972
Kimberly.Powell@brevardclerk.us

August 25, 2021

MEMORANDUM

TO: Commissioner Rita Pritchett, District 1 - Chair

RE: Item J.2., Letter to the U.S. Army Corps of Engineers on Behalf of the Board of County Commissioners Requesting a Feasibility Study for Restoration of Natural Water Flow and Wetlands at Kennedy Space Center (KSC)

The Board of County Commissioners, in regular session on August 24, 2021, approved sending the letter to the U.S. Army Corps of Engineers on behalf of the Board of County Commissioners requesting a feasibility study for restoration of natural water flow and wetlands at KSC. Enclosed is the Letter.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
RACHEL M. SADOFF, CLERK

Kimberly Powell
Kimberly Powell, Clerk to the Board

Encl. (1)

cc: Economic Development Commission (EDC)



BOARD OF COUNTY COMMISSIONERS

Rita Pritchett, District 1 Commissioner

7101 S Highway 1

Titusville, FL 32780

321-607-6901

D1.commissioner@brevardfl.gov

August 24, 2021

Lieutenant General Scott A. Spellmon
Chief of Engineers and Commanding General
U.S. Army Corps of Engineers
441 G Street NW
Washington, D.C. 20314-1000

**RE: Federal Solicitation for Proposals by Non-Federal Interests in FY2023 Water Resources Development Act:
Kennedy Space Center and the Indian River Lagoon**

Dear LT GEN Spellmon:

Along Florida's Space Coast, two valuable assets coexist – NASA's Kennedy Space Center (KSC) and the Indian River Lagoon, which was designated by Congress as an estuary of national significance. The Indian River Lagoon (IRL) occupies 40% of Florida's east coast with a watershed comprised of seven counties and 39 cities. The IRL generates \$7.6 Billion annually to Florida's economy, is home to 1.6 million residents and is recognized for its high biological diversity (4,300 species documented, with numerous species of economic value and species of concern (rare, threatened or endangered)). The IRL is a key driver to the wealth and health of Florida's economy by providing jobs, housing, tourism, industry, and recreation. The natural resource looms large for the quality of life that will help ensure KSC and its commercial space partners can attract and retain the skilled workforce necessary to sustain the Space Coast, Florida, and the United States as the epicenter of human spaceflight, technology development, and space discovery.

I am writing to you today to propose a project for the inclusion of the February 2022 Annual Report to Congress as required by WRRDA 2014, Section 7001. The proposal is for a feasibility study on ways to restore IRL water flow. Federal construction at KSC has altered the natural water flow, water connections and wetlands between Mosquito Lagoon, Banana River, and the Indian River Lagoon. Current east-west transportation corridor and earthen causeway infrastructure servicing KSC are contributing to poor water quality, harmful algal blooms, loss of seagrass and impacts to biological resources – including manatees.

East-west transportation causeways have compartmentalized the system, further restricted water flow and increased water retention time in waterbodies. Slow flow and long retention times makes these segments of water more vulnerable to nutrient pollution and Harmful Algal Blooms (HABs). The worst water quality and hot spots for algal blooms in in the Mosquito Lagoon, northern Indian River Lagoon, and Banana River.

Outcomes of this study will determine a way forward to build coastal resilience into KSC infrastructure and transportation corridors while improving water flow and restoration of natural wetland connections that were once natural hydrological features of the Mosquito Lagoon, Banana River, and northern Indian River Lagoon estuary complex.

Sincerely,

Rita Pritchett, Chair
Brevard County Commissioner
District 1

BILL POSEY
8TH DISTRICT, FLORIDA

COMMITTEES:
SCIENCE, SPACE, AND TECHNOLOGY
SPACE SUBCOMMITTEE

FINANCIAL SERVICES
CONSUMER PROTECTION AND FINANCIAL
INSTITUTIONS SUBCOMMITTEE
HOUSING, COMMUNITY DEVELOPMENT, AND
INSURANCE SUBCOMMITTEE

CONGRESSIONAL ESTUARY CAUCUS, CHAIR
HOUSE AEROSPACE CAUCUS, CO-CHAIR
REPUBLICAN STUDY COMMITTEE
CONGRESSIONAL AUTISM CAUCUS
MILITARY VETERANS CAUCUS

Congress of the United States
House of Representatives
Washington, DC 20515

WWW.POSEY.HOUSE.GOV
WASHINGTON OFFICE
2150 RAYBURN HOUSE OFFICE BUILDING
WASHINGTON, DC 20515
(202) 225-3671
FAX: (202) 225-3518

MAIN DISTRICT OFFICE:
2725 JUDGE FRANK JAMESON WAY, BLDG. C
MELBOURNE, FL 32940
(321) 632-1775
FAX: (321) 632-8595

DISTRICT OFFICE:
INDIAN RIVER COUNTY ADMIN. BLDG. 3
(772) 226-1701

DISTRICT OFFICE:
BREVARD COUNTY GOVERNMENT OFFICES
IN TITUSVILLE
(321) 388-8090

August 30, 2021

Lieutenant General Scott A. Spellman
Chief of Engineers and Commanding General
U.S. Army Corps of Engineers
441 G Street, NW
Washington, DC 20314-1000

Dear General Spellman,

I urge you to include in your February 2022 Report pursuant to Section 7001, the Brevard County Commissioners' proposal for a feasibility study of a project for ecosystem restoration. The county's proposal is enclosed.

The proposed study would examine the feasibility of a project with an integrated system of features restoring to the extent practicable the natural hydrologic flow within the Indian River Lagoon in the vicinity of the Kennedy Space Center. Over many decades, construction of transportation projects and other features within the aquatic environment have altered and restricted natural flows. The ecosystem of the study area has been degraded in terms of hydrology and as a result also in both habitat and water quality. The study area is part of the Indian River Lagoon, one of the most biodiverse ecologies in the western hemisphere. As the Commissioners establish in their proposal, the Indian River Lagoon is one of the most critical resources of the entire Spacecoast and produces huge ecological and economic benefits to the nation as well as to the proposed study area. The proposed study would develop for Congressional authorization a project within the Corps priority mission of ecosystem restoration.

The proposed study would of course be subject to the Water Resources Development Act's cost and time limitations of \$3 million and 3 years respectively. The exact scope and scale of the study would be developed in collaboration of the Commissioners with your Commander, Jacksonville District, during the pre-study phase. Brevard County is prepared to be the non-Federal sponsor. The proposal meets all five of the criteria established by Congress in WRRDA 2014.

I strongly endorse the study proposal and the importance of developing a viable restoration plan non-Federal interests can support in cooperation with the Corps of Engineers. The ecosystem and economic benefits of a properly designed project will be enormous both nationally and regionally. A sound project will also address the legacy impacts of Federal activities on the ecosystem of the Indian River Lagoon.

Please add this proposal to your 2022 report to Congress.

Thank you for your attention.

Sincerely,



Bill Posey
Member of Congress



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

New Business - Development and Environmental Services Group

J.2.

10/12/2021

Subject:

Submittal to Florida Department of Environmental Protection (FDEP) plan for eliminating nonbeneficial surface water discharge per 403.064(17), F.S.

Fiscal Impact:

Approval of the plan will commit this Department to have the improvements completed by January 1, 2032. Currently, cost estimation for the improvements of the three (3) facilities which are designated by the FDEP are: South Central Water Reclamation Facility: \$5M; South Beaches Water Reclamation Facility: \$18M; and Barefoot Bay Water Reclamation Facility: \$40M.

Dept/Office:

Utility Services Department

Requested Action:

Request approval of the Board for Utility Services Department to submit the attached plans for the three (3) above mentioned facilities to the FDEP.

Summary Explanation and Background:

On June 29, 2021, the State of Florida passed 403.064, F.S. for the purpose of “those wastewater treatment plants permitted and operated under an approved reuse program by the department, the reclaimed water shall be considered environmentally acceptable and not a threat to public health and safety.”

Section 17 of the F.S. states “By November 1, 2021, domestic wastewater utilities that dispose of effluent, reclaimed water, or reuse water by surface water discharge shall submit to the department for review and approval a plan for eliminating nonbeneficial surface water discharge by January 1, 2032, subject to the requirements of this section. The plan must include the average gallons per day of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters and the date of such elimination, the average gallons per day of surface water discharge which will continue in accordance with the alternatives provided for in subparagraphs (a)2. and 3., and the level of treatment that the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative.”

Per the attached e-mail sent to the Utility Services Director by the FDEP, the FDEP has designated the following water reclamation facilities within our Department meeting the requirements of the above mentioned F.S.:

- South Beaches Water Reclamation Facility (D3)
- Barefoot Bay Water Reclamation Facility (D3)
- South Central Water Reclamation Facility (D4)

This Department, through the support of our engineering consultant CPH, Inc., have developed a plan for each

of the three facilities that meet the requirements set forth per the F.S. Since these three facilities have been designated by the FDEP as requiring such improvements, the benefit of submitting them prior to November 1, 2021 is that the approved improvements can be completed by January 1, 2032. If no plan is submitted or is late of the November 1 date, then the FDEP will still require such improvements to comply with the F.S. however the completion date will be by January 1, 2028, refer to 403.064(17)(d).

Clerk to the Board Instructions:

E-mail Clerk Memo and mail originals to Utility Services Department, Attention: Rose Lyons



FLORIDA DEPARTMENT OF Environmental Protection

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

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

October 1, 2021

edward.fontanin@brevardfl.gov

Edward Fontanin
Utilities Director Permittee
2725 Judge Fran Jamieson Way
Brevard County Utility Services Department
Brevard County

Dear Edward,

This letter provides a second notification that as the permittee of a domestic wastewater treatment facility with a permitted discharge to surface waters in Florida, you are subject to new provisions in section 403.064(17), Florida Statutes (F.S.). The new provisions require you to submit a plan to eliminate nonbeneficial surface water discharges by January 1, 2032, to the Department of Environmental Protection (DEP) for review and approval no later than November 1, 2021.

If the plan is not timely submitted by the utility by November 1, 2021, **the utility's domestic wastewater treatment facilities may not dispose of effluent, reclaimed water, or reuse water by surface water discharge after January 1, 2028.** DEP will review and approve or deny your plan within nine months of receipt. You may modify the plan by submitting the modification to DEP, but the requirements detailed below must be met and the time to implement shall not be extended. As required by statute, the plan shall be fully implemented by January 1, 2032.

If you have already submitted a plan, or a response indicating that a plan is not required under section 403.064(17), F.S., then you may disregard this letter.

Further details regarding the plan that must be submitted by November 1, 2021:

This plan must include the average number of gallons per day of effluent, reclaimed water or reuse water that will no longer be discharged into surface waters and the date of such elimination, the average number of gallons per day of surface water discharge which will continue if allowed by provisions 2. or 3. in the paragraph below, and the level of treatment the effluent, reclaimed water or reuse water will receive before being discharged into a surface water alternative.

Your plan will be approved by DEP if:

1. The plan will result in eliminating the surface water discharge.
2. The plan will result in meeting the requirements of section 403.086(10), F.S. (the statute related to the elimination of ocean outfall discharges).
3. The plan does not provide for a complete elimination of the surface water discharge, but does provide an affirmative demonstration that any of the following conditions apply to the remaining discharge:
 - a. The discharge is associated with an indirect potable reuse project;
 - b. The discharge is a wet weather discharge that occurs in accordance with an applicable department permit;
 - c. The discharge is into a stormwater management system and is subsequently withdrawn by a user for irrigation purposes;
 - d. The utility operates the domestic wastewater treatment facilities with reuse systems that reuse a minimum of 90 percent of a facility's annual average flow, as determined by DEP using monitoring data for the prior five consecutive years, for reuse purposes authorized by DEP; or
 - e. The discharge provides direct ecological or public water supply benefits, such as rehydrating wetlands or implementing the requirements of minimum flows and minimum water levels or recovery or prevention strategies for a waterbody.

The plan may include conceptual projects for 3.a. and 3.e. above, but this does not extend the time for plan implementation. Please note that discharges allowed under section 403.086(8)(a), F.S., may be included in the plan.

Permit applicants for a new or expanded surface water discharge shall develop a plan in accordance with the above requirements from section 403.064(17), F.S., to be submitted with the permit application.

Certain domestic wastewater treatment facilities can be exempt from the plan outlined above if they successfully demonstrate at least one of the following circumstances apply. However, documentation must still be supplied by the November 1, 2021, deadline to claim this exemption.

1. The domestic wastewater treatment facility is located in a fiscally constrained county as described in section 218.67(1), F.S.
2. The domestic wastewater treatment facility is located in a municipality that is entirely within a rural area of opportunity as designated pursuant to section 288.0656, F.S.
3. The domestic wastewater treatment facility is located in a municipality that has less than \$10 million in total revenue, as determined by the municipality's most recent annual financial report submitted to the Florida Department of Financial Services in accordance with section 218.32, F.S.
4. The domestic wastewater treatment facility that is operated by an operator of a mobile home park as defined in section 723.003, F.S., and has a permitted capacity of less than 300,000 gallons per day.

Edward Fontanin

Page 3

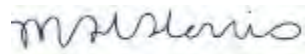
October 1, 2021

Please submit either (1) your plan or (2) your documentation demonstrating that no plan is required via email to DEP's Wastewater Management Program at: NPDESDischargePlan2021@FloridaDEP.gov no

later than November 1, 2021. For your convenience, a cover sheet template is attached that should be completed and included with your submission.

If you have questions about the requirements above or plan submission, please direct those inquiries to NPDESDischargePlan2021@FloridaDEP.gov.

Yours truly,



Marc H. Harris, P.E.

Program Administrator

Wastewater Management Program

Division of Water Resource Management

cc: Nathan Hess, DEP Central District, Nathan.Hess@FloridaDEP.gov
Reggie Philips, DEP Central District, Reggie.Phillips@FloridaDEP.gov

From: [Farrell, Jenny E.](#)
To: [Fontanin, Edward](#); [Prendergast, Matthew](#)
Cc: [Smicherko, David](#)
Subject: New Provision in Section 403.064(17), F.S. regarding Permitted Surface Water Discharges
Date: Friday, August 27, 2021 1:21:07 PM
Importance: High

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Good Afternoon,

Recently the Department issued correspondence regarding Senate Bill 64 and its requirement that all domestic wastewater treatment facilities with a permitted discharge to surface waters submit a plan to eliminate nonbeneficial surface water discharges by January 1, 2032. **The submittal of these plans are due to the Department by November 1, 2021 for the following facilities:**

- BCUD/South Beaches WRF (FL0040622)
- BCUD/Barefoot Bay WRF (FL0042293)
- BCUD/South Central WRF (FL0102679)

In order to ensure that these plans are processed efficiently, in addition to submitting the plans to NPDESDischargePlan2021@floridadep.gov, please also copy DEP_CD@dep.state.fl.us. All questions and comments regarding these plans can also be directed to the Central District Office, please see my contact information below.

Thank you,



Jenny E. Farrell
Environmental Consultant
Compliance Assurance Program
Central District
Jenny.E.Farrell@dep.state.fl.us
Office: 407.897.4173



Title XXIX

PUBLIC HEALTH

Chapter 403

ENVIRONMENTAL CONTROL

[View Entire Chapter](#)

403.064 Reuse of reclaimed water.—

(1) The encouragement and promotion of water conservation, and reuse of reclaimed water, as defined by the department, are state objectives and are considered to be in the public interest. The Legislature finds that the reuse of reclaimed water is a critical component of meeting the state's existing and future water supply needs while sustaining natural systems. The Legislature further finds that for those wastewater treatment plants permitted and operated under an approved reuse program by the department, the reclaimed water shall be considered environmentally acceptable and not a threat to public health and safety. The Legislature encourages the development of incentive-based programs for reuse implementation.

(2) All applicants for permits to construct or operate a domestic wastewater treatment facility located within, serving a population located within, or discharging within a water resource caution area shall prepare a reuse feasibility study as part of their application for the permit. Reuse feasibility studies shall be prepared in accordance with department guidelines adopted by rule and shall include, but are not limited to:

- (a) Evaluation of monetary costs and benefits for several levels and types of reuse.
- (b) Evaluation of water savings if reuse is implemented.
- (c) Evaluation of rates and fees necessary to implement reuse.
- (d) Evaluation of environmental and water resource benefits associated with reuse.
- (e) Evaluation of economic, environmental, and technical constraints.
- (f) A schedule for implementation of reuse. The schedule shall consider phased implementation.

(3) The permit applicant shall prepare a plan of study for the reuse feasibility study consistent with the reuse feasibility study guidelines adopted by department rule. The plan of study shall include detailed descriptions of applicable treatment and water supply alternatives to be evaluated and the methods of analysis to be used. The plan of study shall be submitted to the department for review and approval.

(4) The study required under subsection (2) shall be performed by the applicant, and, if the study shows that the reuse is feasible, the applicant must give significant consideration to its implementation if the study complies with the requirements of subsections (2) and (3).

(5) A reuse feasibility study is not required if:

(a) The domestic wastewater treatment facility has an existing or proposed permitted or design capacity less than 0.1 million gallons per day; or

(b) The permitted reuse capacity equals or exceeds the total permitted capacity of the domestic wastewater treatment facility.

(6) A reuse feasibility study prepared under subsection (2) satisfies a water management district requirement to conduct a reuse feasibility study imposed on a local government or utility that has responsibility for wastewater management. The data included in the study and the conclusions of the study must be given significant consideration by the applicant and the appropriate water management district in an analysis of the economic, environmental, and technical feasibility of providing reclaimed water for reuse under part II of chapter 373 and must be presumed relevant to the determination of feasibility. A water management district may not require a separate study when a reuse feasibility study has been completed under subsection (2).

(7) Local governments may allow the use of reclaimed water for inside activities, including, but not limited to, toilet flushing, fire protection, and decorative water features, as well as for outdoor uses, provided the reclaimed water is from domestic wastewater treatment facilities which are permitted, constructed, and operated in accordance with department rules.

(8) Permits issued by the department for domestic wastewater treatment facilities shall be consistent with requirements for reuse included in applicable consumptive use permits issued by the water management district, if such requirements are consistent with department rules governing reuse of reclaimed water. This subsection applies only to domestic wastewater treatment facilities which are located within, or serve a population located within, or discharge within water resource caution areas and are owned, operated, or controlled by a local government or utility which has responsibility for water supply and wastewater management.

(9) Local governments may and are encouraged to implement programs for the reuse of reclaimed water. Nothing in this chapter shall be construed to prohibit or preempt such local reuse programs.

(10) A local government that implements a reuse program under this section shall be allowed to allocate the costs in a reasonable manner.

(11) Pursuant to chapter 367, the Florida Public Service Commission shall allow entities under its jurisdiction which conduct studies or implement reuse projects, including, but not limited to, any study required by subsection (2) or facilities used for reliability purposes for a reclaimed water reuse system, to recover the full, prudently incurred cost of such studies and facilities through their rate structure.

- (12) In issuing consumptive use permits, the permitting agency shall consider the local reuse program.
- (13) A local government shall require a developer, as a condition for obtaining a development order, to comply with the local reuse program.
- (14) After conducting a feasibility study under subsection (2), domestic wastewater treatment facilities that dispose of effluent by Class I deep well injection, as defined in 40 C.F.R. s. 144.6(a), must implement reuse to the degree that reuse is feasible, based upon the applicant's reuse feasibility study. Applicable permits issued by the department shall be consistent with the requirements of this subsection.
- (a) This subsection does not limit the use of a Class I deep well injection facility as backup for a reclaimed water reuse system.
- (b) This subsection applies only to domestic wastewater treatment facilities located within, serving a population located within, or discharging within a water resource caution area.
- (15) After conducting a feasibility study under subsection (2), domestic wastewater treatment facilities that dispose of effluent by surface water discharges or by land application methods must implement reuse to the degree that reuse is feasible, based upon the applicant's reuse feasibility study. This subsection does not apply to surface water discharges or land application systems which are currently categorized as reuse under department rules. Applicable permits issued by the department shall be consistent with the requirements of this subsection.
- (a) This subsection does not limit the use of a surface water discharge or land application facility as backup for a reclaimed water reuse system.
- (b) This subsection applies only to domestic wastewater treatment facilities located within, serving a population located within, or discharging within a water resource caution area.
- (16) Utilities implementing reuse projects are encouraged, except in the case of use by electric utilities as defined in s. 366.02(2), to meter use of reclaimed water by all end users and to charge for the use of reclaimed water based on the actual volume used when such metering and charges can be shown to encourage water conservation. Metering and the use of volume-based rates are effective water management tools for the following reuse activities: residential irrigation, agricultural irrigation, industrial uses, landscape irrigation, irrigation of other public access areas, commercial and institutional uses such as toilet flushing, and transfers to other reclaimed water utilities. Each domestic wastewater utility that provides reclaimed water for the reuse activities listed in this section shall include a summary of its metering and rate structure as part of its annual reuse report to the department.
- (17) By November 1, 2021, domestic wastewater utilities that dispose of effluent, reclaimed water, or reuse water by surface water discharge shall submit to the department for review and approval a plan for eliminating nonbeneficial surface water discharge by January 1, 2032, subject to the requirements of this section. The plan must include the average gallons per day of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters and the date of such elimination, the average gallons per day of surface water discharge which will continue in accordance with the

alternatives provided for in subparagraphs (a)2. and 3., and the level of treatment that the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative.

(a) The department shall approve a plan that includes all of the information required under this subsection as meeting the requirements of this section if one or more of the following conditions are met:

1. The plan will result in eliminating the surface water discharge.
2. The plan will result in meeting the requirements of s. 403.086(10).
3. The plan does not provide for a complete elimination of the surface water discharge but does provide an affirmative demonstration that any of the following conditions apply to the remaining discharge:
 - a. The discharge is associated with an indirect potable reuse project;
 - b. The discharge is a wet weather discharge that occurs in accordance with an applicable department permit;
 - c. The discharge is into a stormwater management system and is subsequently withdrawn by a user for irrigation purposes;
 - d. The utility operates domestic wastewater treatment facilities with reuse systems that reuse a minimum of 90 percent of a facility's annual average flow, as determined by the department using monitoring data for the prior 5 consecutive years, for reuse purposes authorized by the department; or
 - e. The discharge provides direct ecological or public water supply benefits, such as rehydrating wetlands or implementing the requirements of minimum flows and minimum water levels or recovery or prevention strategies for a water body.

The plan may include conceptual projects under sub-subparagraphs 3.a. and e.; however, such inclusion does not extend the time within which the plan must be implemented.

(b) The department shall approve or deny a plan within 9 months after receiving the plan. A utility may modify the plan by submitting such modification to the department; however, the plan may not be modified such that the requirements of this subsection are not met, and the department may not extend the time within which a plan will be implemented. The approval of the plan or a modification by the department does not constitute final agency action.

(c) A utility shall fully implement the approved plan by January 1, 2032.

(d) If a plan is not timely submitted by a utility or approved by the department, the utility's domestic wastewater treatment facilities may not dispose of effluent, reclaimed water, or reuse water by surface

water discharge after January 1, 2028. A violation of this paragraph is subject to administrative and civil penalties pursuant to ss. 403.121, 403.131, and 403.141.

(e) A domestic wastewater utility applying for a permit for a new or expanded surface water discharge shall prepare a plan in accordance with this subsection as part of that permit application. The department may not approve a permit for a new or expanded surface water discharge unless the plan meets one or more of the conditions provided in paragraph (a).

(f) By December 31, 2021, and annually thereafter, the department shall submit a report to the President of the Senate and the Speaker of the House of Representatives which provides the average gallons per day of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters by the utility and the dates of such elimination; the average gallons per day of surface water discharges that will continue in accordance with the alternatives provided in subparagraphs (a)2. and 3., and the level of treatment that the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative and utility; and any modified or new plans submitted by a utility since the last report.

(g) This subsection does not apply to any of the following:

1. A domestic wastewater treatment facility that is located in a fiscally constrained county as described in s. 218.67(1).
2. A domestic wastewater treatment facility that is located in a municipality that is entirely within a rural area of opportunity as designated pursuant to s. 288.0656.
3. A domestic wastewater treatment facility that is located in a municipality that has less than \$10 million in total revenue, as determined by the municipality's most recent annual financial report submitted to the Department of Financial Services in accordance with s. 218.32.
4. A domestic wastewater treatment facility that is operated by an operator of a mobile home park as defined in s. 723.003 and has a permitted capacity of less than 300,000 gallons per day.

(h) This subsection does not prohibit the inclusion of a plan for backup discharges under s. 403.086(8)(a).

(i) This subsection may not be deemed to exempt a utility from requirements that prohibit the causing of or contributing to violations of water quality standards in surface waters, including groundwater discharges that affect water quality in surface waters.

(18)(a) By December 31, 2020, the department shall initiate rule revisions based on the recommendations of the Potable Reuse Commission's 2020 report "Advancing Potable Reuse in Florida: Framework for the Implementation of Potable Reuse in Florida." Rules for potable reuse projects must address contaminants of emerging concern and meet or exceed federal and state drinking water quality standards and other applicable water quality standards. Reclaimed water is deemed a water source for public water supply systems.

(b) The Legislature recognizes that sufficient water supply is imperative to the future of the state and that potable reuse is a source of water which may assist in meeting future demand for water supply.

(c) The department may convene and lead one or more technical advisory groups to coordinate the rulemaking and review of rules for potable reuse as required under this section. The technical advisory group, which shall assist in the development of such rules, must be composed of knowledgeable representatives of a broad group of interested stakeholders, including, but not limited to, representatives from the water management districts, the wastewater utility industry, the water utility industry, the environmental community, the business community, the public health community, the agricultural community, and the consumers.

(d) Potable reuse is an alternative water supply as defined in s. 373.019, and potable reuse projects are eligible for alternative water supply funding. The use of potable reuse water may not be excluded from regional water supply planning under s. 373.709.

(e) The department and the water management districts shall develop and execute, by December 31, 2023, a memorandum of agreement providing for the procedural requirements of a coordinated review of all permits associated with the construction and operation of an indirect potable reuse project. The memorandum of agreement must provide that the coordinated review will occur only if requested by a permittee. The purpose of the coordinated review is to share information, avoid the redundancy of information requested from the permittee, and ensure consistency in the permit for the protection of the public health and the environment.

(f) To encourage investment in the development of potable reuse projects by private entities, a potable reuse project developed as a qualifying project under s. 255.065 is:

1. Beginning January 1, 2026, eligible for expedited permitting under s. 403.973.
2. Consistent with s. 373.707, eligible for priority funding in the same manner as other alternative water supply projects from the Drinking Water State Revolving Fund, under the Water Protection and Sustainability Program, and for water management district cooperative funding.

(g) This subsection is not intended and may not be construed to supersede s. 373.250(3).

History.—s. 7, ch. 89-324; s. 3, ch. 94-243; s. 8, ch. 95-323; s. 37, ch. 2002-296; s. 13, ch. 2004-381; s. 48, ch. 2018-110; s. 12, ch. 2020-150; s. 1, ch. 2021-168.

Copyright © 1995-2021 The Florida Legislature • Privacy Statement • Contact Us



BAREFOOT BAY ADVANCED WASTEWATER TREATMENT FACILITY



NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION PLAN

OCTOBER 2021

This page intentionally left blank

Cover Sheet for Plan Submittal

Facility Name BCUD - Barefoot Bay Advanced WWTF

Facility ID FL0042293

Contact Person Name, Title, Phone, Email Edward Fontanin, P.E., Utility Services Director
Brevard County Utility Services Department, (321) 633-2093; edward.fontanin@brevardfl.gov

If the requirement for a plan does not apply to the facility, please mark which exemption applies (attach documentation demonstrating that the facility meets the exemption) **Not Applicable**

Check One	Exemption
	Facility is in a fiscally constrained county as described in section 218.67(1), F.S.
	Facility is in a municipality that is entirely with a rural area of opportunity as designated pursuant to section 288.0656, F.S.
	Facility is in a municipality that has less than \$10 million in total revenue, as determined by the municipality's most recent annual financial report submitted to the Department of Financial Services in accordance with section 218.32, F.S.
	Facility is operated by an operator of a mobile home park as defined in section 723.003, F.S., and has a permitted capacity of less than 300,000 gallons per day.

Indicate which plan(s) category under which the facility will comply

Check One	Plan Category
	The plan eliminates the discharge.
	The plan meets section 403.086(10), F.S.
	The plan does not eliminate the discharge – The discharge is associated with an indirect potable reuse project;
	The plan does not eliminate the discharge – The discharge is a wet weather discharge that occurs in accordance with an applicable department permit;
	The plan does not eliminate the discharge – The discharge is into a stormwater management system and is subsequently withdrawn by a user for irrigation purposes;
X	The plan does not eliminate the discharge – The utility operates the domestic wastewater treatment facilities with reuse systems that reuse a minimum of 90 percent of a facility's annual average flow, as determined by the department using monitoring data for the prior 5 consecutive years, for reuse purposes authorized by the department; or
	The plan does not eliminate the discharge – The discharge provides direct ecological or public water supply benefits, such as rehydrating wetlands or implementing the requirements of minimum flows and minimum water levels or recovery or prevention strategies for a waterbody.

Please enter the information on discharges eliminated **Not Applicable**

Discharge Type (effluent, reclaimed water, or reuse water)	Average Gallons Per Day	Date the discharge will be eliminated

Please enter information on any continuing discharges to surface waters after January 1, 2032.

Discharge Allowance Category	Discharge Type (effluent, reclaimed water, or reuse water)	Average Gallons Per Day	Treatment Level Provided (e.g. BOD limit = 5mg/L, TSS = 5 mg/L, TN = 3mg/L, TP = 1mg/L and high-level disinfection)
Meets section 403.086(10), F.S.			
Associated with an indirect potable reuse project.			
Wet weather discharge in accordance with an applicable department permit.			
Discharge into a stormwater management system that is subsequently withdrawn by a user for irrigation purposes.			
Reuse system reuses a minimum of 90 percent of a facility's annual average flow.	Reclaimed Water	Up to 0.188 MGD AADF per Permit	Advanced secondary treatment, filtration and high-level disinfection
Discharge provides direct ecological or public water supply benefits.			

Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signatory Representative
Name *and Official Title* (type or
print) [Rule 62-620.305, F.A.C.]

**Edward Fontanin, P.E., Utility Services Director
Brevard County Utility Services Department**

Authorized Signatory Representative Signature

Date Signed

This page intentionally left blank

BAREFOOT BAY ADVANCED
WASTEWATER TREATMENT FACILITY

NON-BENEFICIAL SURFACE WATER ELIMINATION PLAN



OCTOBER 2021

CPH, Inc.
500 West Fulton Street
Sanford, Florida 32771
CPH Project No. B19507

This page intentionally left blank

TABLE OF CONTENTS

1. Executive Summary	1-1
1.1 Introduction	1-1
1.2 Regulatory Framework for Non-Beneficial Surface Water Discharge Elimination ..	1-2
1.3 Existing Facility Conditions	1-2
1.4 Non-Beneficial Surface Water Discharge Elimination Plan	1-4
1.5 Potential Treatment Facility Improvements	1-4
 2. Regulatory Framework for Non-Beneficial Surface Water Discharge Elimination ..	 2-1
2.1 Introduction	2-1
2.2 Non-Beneficial Surface Water Discharge Elimination Law/Requirements	2-1
2.3 Barefoot Bay Advanced WWTF - Current Disposal Practices	2-4
 3. Existing Facility Conditions	 3-1
3.1 Wastewater Management System Service Area	3-1
3.2 Barefoot Bay Advanced WWTF (BBWWTF)	3-1
3.2.1 Primary Treatment System	3-7
3.2.2 Secondary Treatment System	3-8
3.2.3 Tertiary Treatment System	3-9
3.2.4 Disinfection System	3-9
3.2.5 Reclaimed Water/Effluent Disposal System	3-10
3.2.6 Sludge Management System	3-12
3.3 Historical Wastewater Flows	3-12
3.4 Facility Effluent Flows	3-19
3.5 Facility Effluent Quality	3-19
3.5.1 CBOD ₅ Treatment (Removal) Efficiency	3-29
3.5.2 TSS Treatment (Removal) Efficiency	3-29
3.5.3 TN Treatment (Removal) Efficiency	3-29
3.5.4 TP Treatment (Removal) Efficiency	3-30

TABLE OF CONTENTS

4. Non-Beneficial Surface Water Discharge Elimination Plan.	4-1
4.1 The Barefoot Bay Advanced WWTF Discharge Elimination Plan	4-1
4.2 Capacity and Efficiency of the Barefoot Bay Advanced WWTF	4-3
4.3 Ability of the Barefoot Bay Advanced WWTF to Meet “Current” and “Future” Nutrient Limits	4-4

Appendices

A	Barefoot Bay Advanced WWTF: “Existing” FDEP Operations Permit
----------	---

TABLE OF CONTENTS

List of Tables

Table 3.2-1	Barefoot Bay Advanced WWTF: Design and Current Wastewater Flows . . .	3-6
Table 3.2-2	Barefoot Bay Advanced WWTF - Influent and Effluent Design Criteria.	3-7
Table 3.3-1	Barefoot Bay Advanced WWTF - Historical Wastewater Flows	3-13
Table 3.4-1	Barefoot Bay Advanced WWTF - Effluent Disposal (2016 - 2020)	3-20
Table 3.5-1	Barefoot Bay Advanced WWTF - Reclaimed Water Quality (2016 - 2020) . .	3-26

List of Figures

Figure 3.1-1	Barefoot Bay Wastewater Management System Service Area	3-2
Figure 3.2-1	Barefoot Bay Advanced WWTF - Aerial View	3-3
Figure 3.2-2	Barefoot Bay Advanced WWTF: Schematic Flow Diagram	3-4
Figure 3.2-3	Barefoot Bay Advanced WWTF: Facility Site Plan.	3-5
Figure 3.3-1	Barefoot Bay Advanced WWTF: Historical Wastewater Flows (ADF)	3-16
Figure 3.3-2	Barefoot Bay Advanced WWTF: Historical Wastewater Flows (3-Month ADF).	3-17
Figure 3.3-3	Barefoot Bay Advanced WWTF: Historical Wastewater Flows (AADF)	3-18
Figure 3.4-1	Barefoot Bay Advanced WWTF: Sprayfield Public Access Reuse System (R-001) - Historical Monthly ADF.	3-23
Figure 3.4-2	Barefoot Bay Advanced WWTF: Golf Course Public Access Reuse System (R-001) - Historical Monthly ADF	3-24
Figure 3.4-3	Barefoot Bay Advanced WWTF: Infiltration Impoundment Public Access Reuse System (R-001) - Historical Monthly ADF	3-25

TABLE OF CONTENTS

List of Abbreviations

AADF	Annual Average Daily Flow
AC	Acres
ASP	Activated Sludge Process
AWET	Acute Whole Effluent Toxicity
ADF	Average Daily Flow
BBWWTF	Barefoot Bay Advanced Wastewater Treatment Facility
BCUD	Brevard County Utilities Department
BFP	Belt Filter Press
BMP	Best Management Practices
BNR	Biological Nutrient Removal
BOD	Biochemical Oxygen Demand
CAR	Capacity Analysis Report
CBOD ₅	Carbonaceous Biochemical Oxygen Demand - 5-Day
CCC	Chlorine Contact Chamber
CFR	Code of Federal Regulations
CIP	Capital Improvements Plan
COD	Chemical Oxygen Demand
DIW	Deep Injection Well
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
F/M	Food-to-Microorganism Ratio
FSS	Fixed Suspended Solids
GPCD	Gallons per Capita-Day
HDT	Hydraulic Detention Time
HP	Horsepower
hr	Hour
HRT	Hydraulic Retention Time
IR	Internal Recycle
lb	Pounds
lb/day	Pounds per day
MCRT	Mean Cell Residence Time
MDF	Maximum Daily Flow
mg	Milligram
mg/L	Milligrams per Liter
MG	Million Gallons

TABLE OF CONTENTS

List of Abbreviations

MGD	Million Gallons per Day
Min	Minutes
MLSS	Mixed Liquor Suspended Solids
MLVSS	Mixed Liquor Volatile Suspended Solids
MOP	Monitoring and Operating Protocol
NaOCl	Sodium Hypochlorite
NH ₃ -N	Ammonia-Nitrogen
O&M	Operations and Maintenance
ORP	Oxidation Reduction Potential
PAR	Public Access Reuse
PD	Positive Displacement
PHF	Peak Hourly Flow
PVC	Polyvinyl Chloride
RAS	Return Activated Sludge
RCP	Reinforced Concrete Pipe
RPM	Revolutions per Minute
SCADA	Supervisory Control and Data Acquisition
SLR	Solids Loading Rate
SNdN	Simultaneous Nitrification-Denitrification
SOR	Surface Overflow Rate
SRF	State Revolving Fund
SRT	Solids Retention Time
SU	Standard Unit
TDH	Total Dynamic Head
TKN	Total Kjeldahl Nitrogen (Organic-N + NH ₃ -N)
TMDL	Total Maximum Daily Load
TN	Total Nitrogen
TP	Total Phosphorus
TRC	Total Residual Chlorine
TS	Total Solids
TSS	Total Suspended Solids
VFD	Variable Frequency Drive
VS	Volatile Solids
VSS	Volatile Suspended Solids
WAS	Waste Activated Sludge
WLR	Weir Loading Rate
WOR	Weir Overflow Rate
WRF	Water Reclamation Facility

This page intentionally left blank

SECTION 1

EXECUTIVE SUMMARY

1.1 INTRODUCTION

The promotion of water conservation and reuse of reclaimed water are State goals/objectives and are considered to be in the public interest. The State also finds that the reuse of reclaimed water is a critical component of meeting the State's existing and future water supply needs while sustaining natural systems. To enhance the quality of surface waters throughout the Florida, the State is looking to reduce/eliminate non-beneficial surface water discharges by wastewater treatment facility's through a new law and modifications to Section 403.064, "*Reuse of Reclaimed Water*", of the Florida Statutes. The new law requires utilities with wastewater treatment plants that discharge to surface waters to submit a Non-beneficial Surface Water Discharge Elimination Plan to the FDEP to review by November 1, 2021 with full implementation of any proposed improvements completed by January 1, 2032.

Brevard County owns and operates the Barefoot Bay Advanced WWTF (BBWWTF) to process all of the wastewater generated within its permitted service area. The treatment facility serves the residential, commercial, and rural areas in this portion of Brevard County. The County has invested million of dollars into this facility and all of its ancillary components over the last twenty (20) years as well as reclaimed water distribution/transmission and effluent disposal infrastructure.

The current regulatory environment, including the State's attempt to eliminate non-beneficial surface water discharges, requires Brevard County to evaluate the BBWWTF's surface water discharge and its potential impacts to surrounding surface waters in accordance with the requirements of Section 403.064, "*Reuse of Reclaimed Water*", of the Florida Statutes.



**Barefoot Bay Wastewater
Management System Service Area**

This Non-Beneficial Surface Water Discharge Elimination Plan for the Barefoot Bay Advanced WWTF includes the evaluation of the current FDEP-permitted surface water discharge from the Barefoot Bay Advanced WWTF to the Micco Ditch System and thence the Sebastian River and the Indian River Lagoon, the amount of effluent discharged to the surface water system, the amount of reclaimed water utilized throughout the service area, the reclaimed water quality generated by the treatment facility and the capability of the facility to meet Advanced Wastewater Treatment (AWT) Standards on a consistent basis to ensure protection of the environment. This Surface Water Discharge Elimination Plan is comprised of the following Sections:

- Section 2: Regulatory Framework for Non-Beneficial Surface Water Discharge Elimination
- Section 3: Existing Facility Conditions
- Section 4: Non-Beneficial Surface Water Discharge Elimination Plan

1.2 REGULATORY FRAMEWORK FOR NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION

The State of Florida Legislature developed and passed House Bill 263 and Senate Bill 64, and the Governor signed the legislation into law on June 29, 2021, requiring domestic wastewater utilities to submit a Plan to the FDEP for eliminating non-beneficial surface water discharges (e.g., treated effluent, reclaimed water or reuse water).

The new law creates a timeline and Plan to eliminate non-beneficial surface water discharge by January 1, 2032, subject to the requirements of the law. It contains a series of conditions authorizing discharges that are being beneficially used or otherwise regulated, and for specified hardships. The law requires domestic wastewater utilities that dispose of effluent, reclaimed water, or reuse water by surface water discharge to submit a Plan to eliminate non-beneficial surface water discharge to the Florida Department of Environmental Protection (FDEP) by November 1, 2021 and fully implemented at the treatment facility by January 1, 2032.

1.3 EXISTING FACILITY CONDITIONS

The Barefoot Bay Advanced WWTF is classified as a 0.90 MGD AADF *Advanced Secondary Treatment plus Filtration* Facility (Category I, Class B), utilizing two (2) ring-steel wastewater treatment units to treat the incoming raw wastewater from the service area and is currently operating under FDEP Permit No. FL0042293. The unit operations and processes currently employed are as follows:

Treatment Elements	Description
Primary Treatment	Two (2) manually cleaned static barscreens (0.1 inch) with a manual bypass screen in a separate channel and flow equalization.
Secondary Treatment	Biological oxidation of the organic wastes using dual ring-steel wastewater treatment units (each with anoxic and aerobic basins with a central secondary clarifier) and RAS/WAS pumping stations.
Tertiary Treatment	Tertiary filtration via 3 sand filtration units with backwashing systems and a filter clear well.
Disinfection System	High-level disinfection is accomplished through the use of bulk liquid NaOCl (chemical feed and storage systems) and a cast-in-place concrete chlorine contact chamber (CCC).
Dechlorination System	Dechlorination of facility effluent is provided prior to any surface water discharge via chemical feed and storage systems located on-site.
Sludge Treatment	Aerobic digestion of the sludge generated in the treatment system. Stabilized biosolids are conveyed to the County's South Central Regional WRF for further treatment prior to transportation to a local Class I solids waste landfill for final disposal.

Reclaimed water is produced at the facility and is used throughout the Barefoot Bay Reuse Service area in accordance with the following FDEP-permitted disposal systems:

Disposal System	FDEP Designation	AADF Capacity (MGD)	Disposal System Description
Land Application (Reuse)	R-001	1.041	An existing slow-rate Public Access Reuse (PAR) system consisting of a 0.13 MGD AADF permitted capacity 40-acre spray field, a 0.124 MGD AADF permitted capacity 50-Acre Barefoot Bay Golf Course, and a 0.787 MGD AADF infiltration impoundment (formerly permitted as a sprayfield) with 12 acres of exfiltration trenches on a 320-acre site. Storage facilities include an existing 1.8 MG on-site lined reject pond and an existing 4.0 MG reclaimed water pond. Land application system R-001 is located approximately at latitude 27° 52' 48" N, longitude 80° 32' 55" W.
Surface Water Discharge	D-001	0.188	An existing discharge to the Micco Ditch system (WBID# 3121) thence to the North Prong of the Sebastian River, (WBID# 3128), Class III fresh waters. The discharge is limited to 91 days per year. The outfall is approximately 2.5 feet in length and discharges at a depth of approximately 5 feet. The point of discharge is located approximately at latitude 27°53' 18" N, longitude 80°32' 10" W.

In peak flow situations, typically in response to intense rainfall events associated with tropical systems and severe localized thunderstorms within the Barefoot Bay Wastewater Management System Service Area, or when there is no remaining reclaimed water storage available, the facility effluent can be discharged to the Micco Ditch System and thence the North Prong of the Sebastian River and eventually the IRL. ***However, there have been no surface water discharges from the Barefoot Bay Advanced WWTF since 2012.***

The Barefoot Bay Advanced WWTF is efficient in treating the raw wastewater from the service area and is in compliance with all FDEP Operations Permit requirements/limitations.

1.4 NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION PLAN

The detailed evaluation of monthly operating data indicates that the Barefoot Bay Advanced WWTF has reused 100% of the facility's annual average effluent flow over the past five-year period from January 2016 - December 2020.

Therefore, in accordance with the requirements of the 403.064(17)(a)(3)(d), Florida Statutes, the Surface Water Discharge Elimination Plan for the Barefoot Bay Advanced WWTF does not provide for a complete elimination of the FDEP-permitted surface water discharge to the Micco Ditch System and thence to the St. Johns River and eventually to the Indian River Lagoon. However, Brevard County is providing the FDEP with an affirmation demonstration (as provided for in the law), based on the analyses and evaluations conducted in Section 3 of this document, that the Barefoot Bay WWTF is reusing a minimum of 90% of its annual average effluent flow as determined using the daily monitoring data from the previous five (5) Calendar Years (2016 - 2020) of operating data. In accordance with the regulatory requirements of 403.064, F.S., the County will therefore continue to utilize the FDEP-permitted discharge from the Barefoot Bay WWTF to the Micco Ditch System and will not exceed the 0.188 MGD AADF flow limitation. The current facility effluent disposal system (irrigation of the sprayfield and Barefoot Bay golf course and the Infiltration Impoundment) has the capacity to handle the current wastewater flows and those anticipated in the 20-year planning horizon; with the exception of potentially heavy rainfalls associated with tropical events and intense localized storms (surface water discharge is actually a “wet weather” discharge).

1.5 POTENTIAL TREATMENT FACILITY IMPROVEMENTS

Currently, the effluent produced at the treatment facility has elevated nutrient concentrations that exceed the permit limitations for surface water discharge. Thus, to meet the surface water discharge nutrient limitations and mass loadings (TN, TP) required in the current Barefoot Bay WWTF FDEP Operations Permit and the regulatory requirements mandated in Section 403.086, Florida Statutes, ***operational, process and infrastructure improvements, modifications and adjustments will be required at the facility.*** It is recommended that an engineering study be conducted to address the elevated effluent TN and TP concentrations and provide both short-term and long-term recommendations and solutions to resolve this issue.

The required facility improvements to the Barefoot Bay Advanced WWTF will be included in the County's Utility Capital Improvements Program (CIP). As this is not a currently funded CIP project, the County will evaluate their utility capital resources during upcoming annual budget cycle meetings and include this project in its list of potential prioritized utility projects.

SECTION 2

REGULATORY FRAMEWORK FOR NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION

2.1 INTRODUCTION

This Section of the Non-Beneficial Surface Water Discharge Elimination Plan (NBSWDEP) presents the regulatory framework for the potential surface water elimination/reduction options for Brevard County's Barefoot Bay Advanced WWTF. The regulations regarding the surface water discharge elimination program have been promulgated by the State of Florida under 403.064, "*Reuse of Reclaimed Water*" (June 2021). The new law requires Brevard County to submit to the Florida Department of Environmental Protection (FDEP), by November 1, 2021, a Plan for eliminating non-beneficial treatment facility effluent discharges to surface waters.

The Florida Department of Environmental Protection (FDEP) regulates surface waters and watersheds within the State and the approach for restoring and protecting State waters and addressing TMDL Program requirements (1972 Federal Clean Water Act and the 1999 Florida Watershed Restoration Act (FWRA)).

2.2 NON-BENEFICIAL SURFACE WATER ELIMINATION LAW/REQUIREMENTS

The State of Florida Legislature, during the past session, developed and passed House Bill 263 and Senate Bill 64 requiring domestic wastewater utilities to submit a Plan to the FDEP for eliminating non-beneficial surface water discharges (e.g., treated effluent, reclaimed water or reuse water). Governor DeSantis signed the legislation into law on June 29, 2021. The law added new regulatory requirements to 403.064, "*Reuse of Reclaimed Water*" of the Florida Statutes which will be discussed herein.

The new law creates a timeline and Plan to eliminate non-beneficial surface water discharge by January 1, 2032, subject to the requirements of the law. It contains a series

of conditions authorizing discharges that are being beneficially used or otherwise regulated, and for specified hardships. The law requires domestic wastewater utilities that dispose of effluent, reclaimed water, or reuse water by surface water discharge to submit a Plan to eliminate non-beneficial surface water discharge to the Florida Department of Environmental Protection (FDEP). The Plan must be submitted to FDEP by November 1, 2021 and implemented by January 1, 2032.

The Non-Beneficial Surface Water Discharge Elimination Plan must include the following:

- The average flow (MGD) of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters and the date of such elimination;
- The average flow (MGD) of surface water discharge that will continue in accordance with the requirements for the elimination of ocean outfalls, one of the discharge conditions specified in the legislation or one of the hardship conditions; and
- The level of treatment which the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative.

To be approved by the FDEP, the Non-Beneficial Surface Water Discharge Elimination Plan must:

- Result in eliminating the surface water discharge;
- Result in meeting the statutory requirements (Section 403.086(10)) regarding the discharge of domestic wastewater through an ocean outfall; or
- Provide an affirmative demonstration that any of the following discharge conditions applies to the remaining discharge if the Plan does not provide for the complete elimination of surface water discharge:

Discharge Conditions

The discharge is associated with an indirect potable reuse project.

The discharge is a wet weather discharge that occurs in accordance with an applicable FDEP permit.

The discharge is into a stormwater management system and is subsequently withdrawn by a user for irrigation purposes.

The utility operates domestic wastewater treatment facilities with reuse systems that reuse a minimum of ninety percent (90%) of a facility's annual average flow, as determined by the FDEP using monitoring data for the prior five (5) consecutive years, for reuse purposes authorized by the FDEP.

The discharge provides direct ecological or public water supply benefits, such as rehydrating wetlands or implementing the requirements of minimum flows and minimum water levels or recovery or prevention strategies for a waterbody.

The new law requires the FDEP to approve or deny a Non-Beneficial Surface Water Discharge Elimination Plan within nine (9) months after receiving the Plan. Brevard County may modify the Barefoot Bay Advanced WWTF Plan by submitting the proposed modification(s) to the FDEP for review. However, the Plan may not be modified such that the requirements of the new law are not met and the FDEP may not extend the time within which a Plan will be implemented. The approval of the Plan or a modification by the FDEP does not constitute final agency action.

If the Non-Beneficial Surface Water Discharge Elimination Plan is not submitted in a timely manner by the County, or approved by the FDEP, the Barefoot Bay Advanced WWTF may not dispose of effluent, reclaimed water, or reuse water by surface discharge after January 1, 2028. In addition, a violation subjects Brevard County to administrative and civil penalties pursuant to ss. 403.121, 403.131, and 403.141.

A domestic wastewater utility applying for a permit for a new or expanded surface water discharge is now required to prepare a Plan in accordance with 403.064, F.S. as part of that permit application. The FDEP may not approve a permit for a new or expanded surface water discharge unless the Plan meets one or more of the conditions provided in the new law.

By December 31, 2021, and annually thereafter, the FDEP is required to submit a report to the President of the Florida Senate and the Speaker of the Florida House of Representatives which provides the average gallons per day of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters by the utility and the dates of such elimination; the average gallons per day of surface water discharges that will continue in accordance with the alternatives provided in the law, and the level of treatment that the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative and utility; and any modified or new plans submitted by a utility since the last report.

This new law does not apply to any of the following:

A domestic wastewater treatment facility that is located in a fiscally constrained Florida County as described in s. 218.67(1).

A domestic wastewater treatment facility that is located in a municipality that is entirely within a rural area of opportunity as designated pursuant to s. 288.0656.

A domestic wastewater treatment facility that is located in a municipality that has less than \$10 million in total revenue, as determined by the municipality's most recent annual financial report submitted to the Department of Financial Services in accordance with s. 218.32.

A domestic wastewater treatment facility that is operated by an operator of a mobile home park as defined in s. 723.003 and has a permitted capacity of less than 300,000 gallons per day.

Therefore, as the Barefoot Bay Advanced WWTF has a permitted “intermittent” surface water discharge from the treatment facility to the Mico Ditch System, thence to the Sebastian River and into the Indian River Lagoon, and does not meet one of the Plan exemptions, as identified above, a Non-Beneficial Surface Water Discharge Elimination Plan must be submitted to FDEP by the November 1, 2021 deadline.

2.3 BAREFOOT BAY ADVANCED WWTF - CURRENT DISPOSAL PRACTICES

Brevard County owns and operates the Barefoot Bay Advanced WWTF (BBWWTF) which is classified as an *Advanced Secondary Treatment plus Filtration Facility* (Category I, Class B) utilizing the two (2) ring-steel wastewater treatment units to treat the incoming wastewater and meets all Class I Reliability Criteria. The treatment facility consists of dual static influent screening systems, a flow splitter box, two (2) treatment trains (each with anoxic and aerobic basins along with a central secondary clarifier), tertiary filtration, chemical feed facilities, high-level disinfection, a dechlorination system (for surface water discharges), pumping systems, reclaimed water storage and a “lined” substandard effluent holding pond.



A highly treated reclaimed water is produced at the facility that meets all regulatory effluent limitations. The current permitted treatment capacity of the facility is 0.90 MGD AADF and the BBWWTF is operating under FDEP Operations Permit No. FL0042293 (a copy is provided in Appendix A). Biosolids are aerobically digested and then transported by a sludge hauler to the Brevard County South Central Regional WRF for further treatment prior to final disposal in a Class I solid waste landfill.

Reuse/effluent disposal is achieved by a combination of the following FDEP permitted disposal systems:

Disposal System	FDEP Designation	AADF Capacity (MGD)	Disposal System Description
Land Application (Reuse)	R-001	1.041	An existing slow-rate Public Access Reuse (PAR) system consisting of a 0.13 MGD AADF permitted capacity 40-acre spray field, a 0.124 MGD AADF permitted capacity 50-Acre Barefoot Bay Golf Course, and a 0.787 MGD AADF infiltration impoundment (formerly permitted as a sprayfield) with 12 acres of exfiltration trenches on a 320-acre site. Storage facilities include an existing 1.8 MG on-site lined reject pond and an existing 4.0 MG reclaimed water pond. Land application system R-001 is located approximately at latitude 27° 52' 48" N, longitude 80° 32' 55" W.
Surface Water Discharge	D-001	0.188	An existing discharge to the Micco Ditch system (WBID# 3121) thence to the North Prong of the Sebastian River, (WBID# 3128), Class III fresh waters. The discharge is limited to 91 days per year. The outfall is approximately 2.5 feet in length and discharges at a depth of approximately 5 feet. The point of discharge is located approximately at latitude 27°53' 18" N, longitude 80°32' 10" W.

In peak flow situations, typically in response to intense rainfall events associated with tropical systems and severe localized thunderstorms within the Barefoot Bay Wastewater Management System Service Area, or when there is no remaining reclaimed water storage, the facility effluent can be discharged to the Micco Ditch System and thence the North Prong of the Sebastian River and eventually to the Indian River Lagoon. ***However, there have been no surface water discharges from the Barefoot Bay Advanced WWTF since 2012.***

This page intentionally left blank

SECTION 3

EXISTING FACILITY CONDITIONS

3.1 WASTEWATER MANAGEMENT SYSTEM SERVICE AREA

The Barefoot Bay Wastewater Management System Service Area includes land within unincorporated portions of Brevard County as presented in Figure 3.1-1. The service area is generally bounded by a development immediately north of Ocean Avenue Way on the north, U.S. Highway 1 on the east, Emily's Glen Lane on the south and the western boundary of the County's 320-acre Infiltration Impoundment reuse site on the west.

The Barefoot Bay Wastewater Management System serves the County's residential, commercial, and rural areas. Population and corresponding raw wastewater flow projections are based on this service area. The raw wastewater is collected and conveyed via gravity sewers, lift stations and forcemains to the Barefoot Bay Advanced Wastewater Treatment Facility (BBWWTF) located at 7773 Dottie Drive, Barefoot Bay, FL 32976, for advanced secondary treatment and water reclamation.

Development is suburban in nature, dominated by mobile home communities, single-family residential subdivisions and commercial development typically associated with residential development.

3.2 BAREFOOT BAY ADVANCED WWTF (BBWWTF)

The Barefoot Bay Advanced WWTF is classified as an *Advanced Secondary Treatment plus Filtration Facility* (Category I, Class B) utilizing two (2) ring-steel wastewater treatment units to treat the incoming raw wastewater from the collection and transmission system. The treatment facility consists of dual static influent screening systems, a flow splitter box, flow equalization basin, two (2) treatment trains (each with anoxic and aerobic basins along with a central secondary clarifier), tertiary filtration, chemical feed facilities, high-level disinfection, a dechlorination system (for surface water discharges), pumping systems, reclaimed water storage and a "lined" substandard effluent holding pond.

The Barefoot Bay Wastewater Management System, Reuse System Service Area and the BBWWTF are operating under FDEP Operations Permit No. FL0042293. A copy of the current FDEP Operations Permit is provided in Appendix A. An aerial view, schematic flow diagram and site plan of the Barefoot Bay Advanced WWTF are presented in Figures 3.2-1 through 3.2-3, respectively.

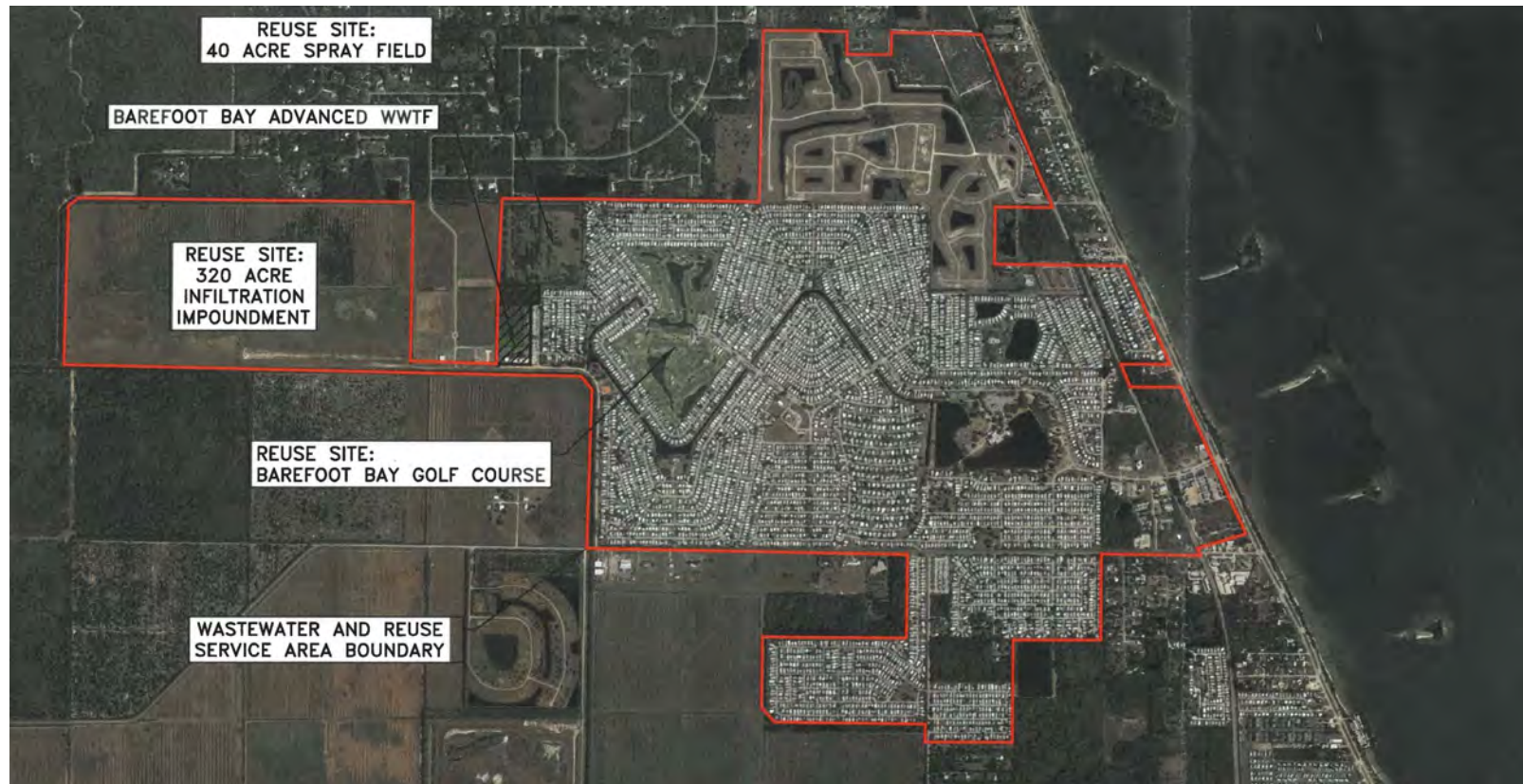


FIGURE 3.1-1

BAREFOOT BAY WASTEWATER MANAGEMENT SYSTEM SERVICE AREA



FIGURE 3.2-1

BAREFOOT BAY ADVANCED WWTF - AERIAL VIEW

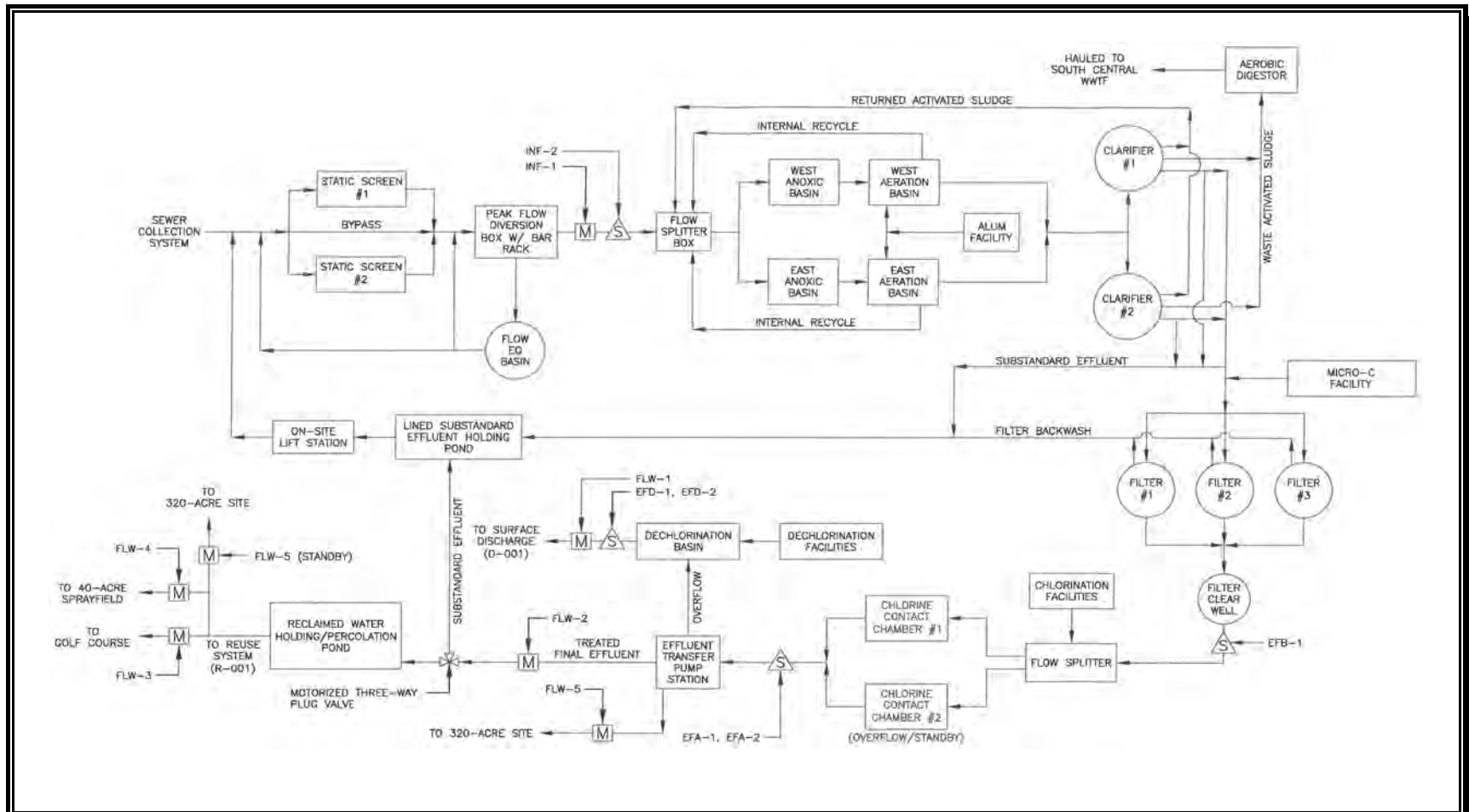
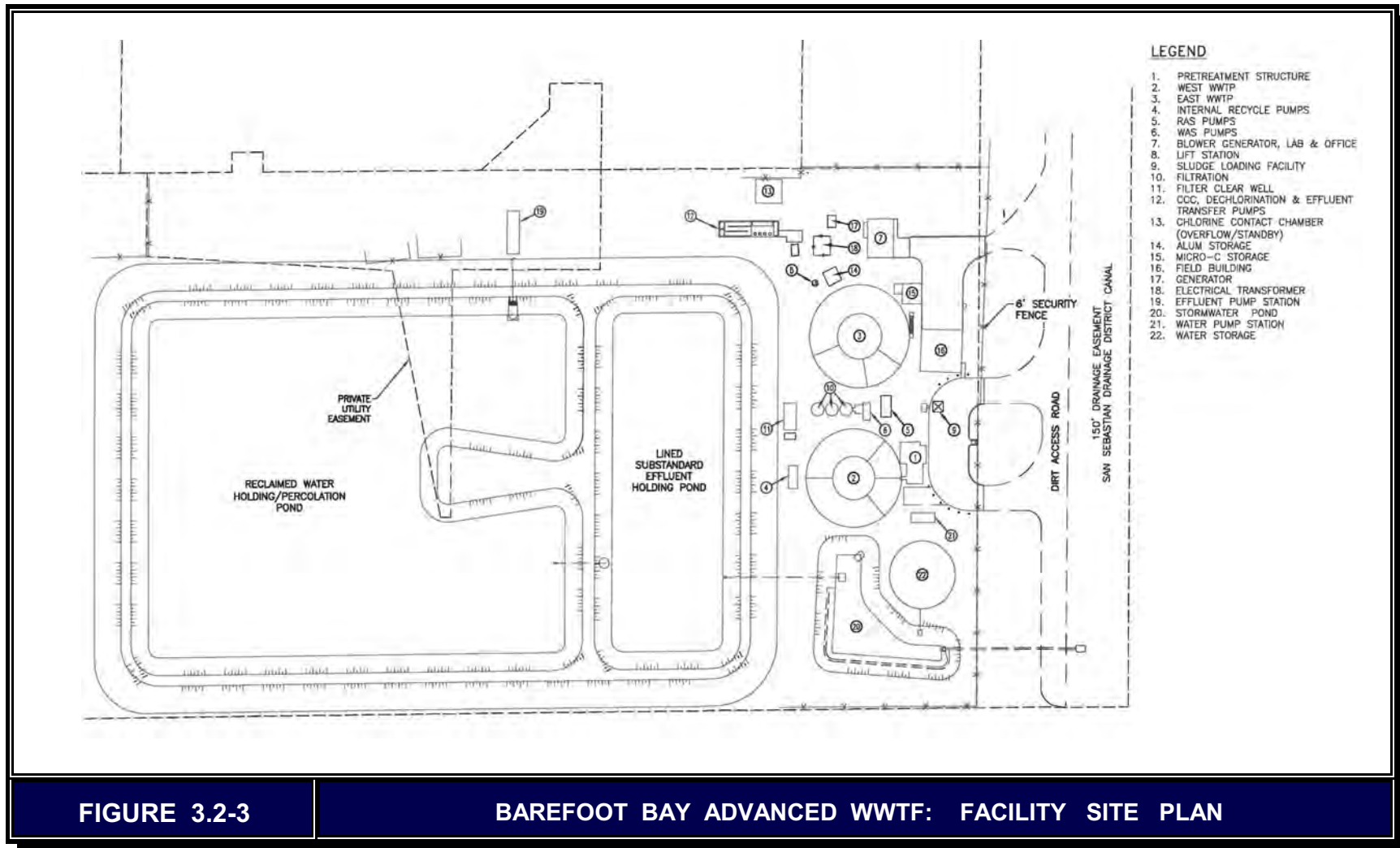


FIGURE 3.2-2

BAREFOOT BAY ADVANCED WWTF: SCHEMATIC FLOW DIAGRAM



The reclaimed water produced at the Barefoot Bay Advanced WWTF is used throughout the service area for slow-rate irrigation and land application of *public access sites*. The unit operations and processes currently employed at the Barefoot Bay Advanced WWTF (2020) are divided into the following elements/categories:

Treatment Elements	Description
Primary Treatment	Two (2) manually cleaned static barscreens (0.1 inch) with a manual bypass screen in a separate channel and flow equalization.
Secondary Treatment	Biological oxidation of the organic wastes using dual ring-steel wastewater treatment units (each with anoxic and aerobic basins with a central secondary clarifier) and RAS/WAS pumping stations.
Tertiary Treatment	Tertiary filtration via three (3) sand filtration units with backwashing systems and a filter clear well.
Disinfection System	High-level disinfection is accomplished through the use of bulk liquid NaOCl (chemical feed and storage systems) and a cast-in-place concrete chlorine contact chamber (CCC).
Dechlorination System	Dechlorination of facility effluent is provided prior to any surface water discharge via chemical feed and storage systems located on-site.
Sludge Treatment	Aerobic digestion of the sludge generated in the treatment system. Stabilized biosolids are conveyed to the County's South Central Regional WRF for further treatment prior to transportation to a local Class I solids waste landfill for final disposal.

Design and current raw wastewater flows at the Barefoot Bay Advanced WWTF are as follows:

Table 3.2-1: Barefoot Bay Advanced WWTF: Design and Current Wastewater Flows		
Flow Condition	Raw Wastewater Flow Rate (MGD)	
	Design	Actual Operation*
Annual Average Daily Flow (AADF)	0.90	0.721
Maximum Daily Flow (MDF)	2.34	1.905
Peak Hourly Flow (PHF)	2.70	

* Actual flow conditions from Calendar Year 2020.

Influent and effluent design criteria for the Barefoot Bay Advanced WWTF are presented in the table below.

Table 3.2-2: Barefoot Bay Advanced WWTF - Influent and Effluent Design Criteria

Parameter	Units	Influent	Tertiary Effluent
CBOD ₅	mg/L	240*	< 10
TSS	mg/L	145*	< 5**
TKN	mg/L	50	
TN***	mg/L		< 8
TP****	mg/L	8	≤ 3
pH	S.U.	6.0 - 8.5	6.0 - 8.5

* Data from Operations Permit Renewal
 *** Supplemental carbon may be required.

** After Tertiary Filtration
 **** A coagulant may be required

3.2.1 Primary Treatment System

Raw wastewater flows from the Barefoot Bay Wastewater Management System Service Area enter the Pretreatment Structure, located on the south side of the facility. The Pretreatment Structure is an open, two-story structure with influent screening and a flow splitting system on the second floor and consists of the following unit operations:

- Two (2) static barscreens (0.1 inch)
- One manually cleaned barscreen
- Flow splitting system

Raw wastewater flows entering the Pretreatment Structure are split between the two (2) parallel self-cleaning static screens. A third manually cleaned barscreen is located in a separate channel for peak flow events. The screenings are collected, slide down the screen by hydraulic and gravity action and discharge into a municipal dumpster at grade (landfill disposal).

**Pretreatment Structure****Static Barscreen (0.1 in)**

Screened wastewater is then conveyed from the Pretreatment Structure as follows:

- Flows by gravity to the Flow Equalization (EQ) Basin (0.17 MG)

- Flows by gravity through the influent trough and a Parshall Flume to a flow splitter box and is conveyed to the anoxic basins within the two (2) ring-steel wastewater treatment units.

The EQ Basin provides flow and constituent attenuation and is aerated and mixed to ensure that the fluid is homogeneous and kept in an anoxic/aerobic state. The EQ Basin aeration system consists of a centrifugal blower and a system of coarse bubble diffusers. Two EQ Basin pumps then convey the screened wastewater to the Secondary Treatment System (wastewater treatment units) for further treatment.

3.2.2 Secondary Treatment System

Secondary treatment of raw, screened wastewater, up to 0.90 MGD AADF, can be processed through the two ring-steel biological treatment units. Each unit consists of the following treatment elements:

- Anoxic Zone: 80,835 gallon volume with 2 mixers and a hydraulic detention time of 4.3 hours.
- Aerobic Basin: 193,750 gallon volume with a hydraulic detention and solids retention time of 10.3 hours and 13 days, respectively.
- Secondary Clarifier: A center-fed unit with a 42-foot diameter and a 10-foot sidewater depth.

The anoxic basin functions as the main denitrification zone. The Mixed Liquor Suspended Solids (MLSS) and Internal Mixed Liquor Recycle (IMLR) streams bring nitrate from the aerobic basin into contact with the influent organic matter (BOD_5). Heterotrophic bacteria convert the nitrate to nitrogen gas and consume a portion of the influent BOD_5 in the process.



Ring-Steel Biological Treatment Unit

The MLSS from the primary anoxic basin flows, by gravity, to the aerobic basin that contains heterotrophic bacteria (suspended growth). The aerobic basin is designed to utilize the metabolic reactions of microorganisms to produce an acceptable effluent water quality by removing oxygen demanding constituents ($CBOD_5$) and nutrients (nitrogen and phosphorus).

Secondary clarification of the biologically treated wastewater is provided to remove MLSS, flocculated suspended solids and chemical precipitates and to meet the effluent criteria mandated by FDEP, EPA and Class I Reliability. Secondary clarification is provided in each biological treatment unit by one 42-foot diameter, 10-foot sidewater depth, ring steel clarifier with full-surface skimmers. The settled MLSS are removed in the secondary clarifier underflow and either returned to the treatment system as RAS or wasted to the aerobic digestion system as WAS.

3.2.3 Tertiary Treatment System

Tertiary filtration of the wastewater is required to ensure protection of public health and enhance the disinfection process. A chemical dose (alum/polymer) may be introduced upstream of the filters, as necessary, to enhance TSS removal should the effluent be approaching the mandated maximum concentration. The secondary clarifier effluent flows, by gravity, to the tertiary filtration system and is split between the three (3) tertiary sand filters (filtration capacity of 0.3 MGD AADF, each). Each circular filter has a surface area of approximately 122 ft² (total surface area of 367 ft²) and is comprised of six (6) feet of mono-media sand over eighteen (18) inches of support gravel.



Tertiary Filtration System

One of the three (3) tertiary filters is backwashed on a daily basis. The backwashing cycle is performed based upon filter run-time rather than effluent TSS concentration, turbidity, or filtration system head loss. The backwash water is conveyed over a weir in the filter and to the lined substandard effluent holding pond by gravity.

3.2.4 Disinfection Sytem - Carrousel BNR Treatment System

From the tertiary filtration system, the treated effluent flows, by gravity, to a cast-in-place concrete Chlorine Contact Chamber (CCC). The CCC provides high level disinfection of the effluent through the application of liquid sodium hypochlorite (NaOCl) via a flow-paced system. The CCC System is designed to provide a minimum of fifteen (15) minutes of contact time at PHF and thirty (30) minutes at AADF. Sodium



Chlorine Contact Chamber (CCC)

hypochlorite is metered and mixed into the tertiary effluent and the CCC provides the contact time for the inactivation of fecal coliforms, pathogens and other microbial organisms.

3.2.5 Reclaimed Water/Effluent Disposal System

The Barefoot Bay Advanced WWTF effluent disposal systems, permitted by FDEP, are briefly described below:

Disposal System	FDEP Designation	AADF Capacity (MGD)	Disposal System Description
Land Application (Reuse)	R-001	1.041	An existing slow-rate Public Access Reuse (PAR) system consisting of a 0.13 MGD AADF permitted capacity 40-acre spray field, a 0.124 MGD AADF permitted capacity 50-Acre Barefoot Bay Golf Course, and a 0.787 MGD AADF infiltration impoundment (formerly permitted as a sprayfield) with 12 acres of exfiltration trenches on a 320-acre site. Storage facilities include an existing 1.8 MG on-site lined reject pond and an existing 4.0 MG reclaimed water pond. Land application system R-001 is located approximately at latitude 27° 52' 48" N, longitude 80° 32' 55" W.
Surface Water Discharge	D-001	0.188	An existing discharge to the Micco Ditch system (WBID# 3121) thence to the North Prong of the Sebastian River (WBID# 3128), Class III fresh waters and eventually the IRL. The discharge is limited to 91 days per year. The outfall is approximately 2.5 feet in length and discharges at a depth of approximately five (5) feet. The point of discharge is located approximately at latitude 27°53' 18" N, longitude 80°32' 10" W.

Reclaimed water meeting the Public Access Reuse criteria is pumped from the Transfer Pump Station (4 pump system) to the Reclaimed Water Storage Pond (4.0 MG volume) located on the BBWWTF site.

Effluent from the CCC that does not meet Public Access Reuse Criteria (low chlorine residual or high TSS/turbidity), is pumped to the lined Substandard Effluent Holding Pond (1.8 MG volume). This pond is also used for storage of the filtration system backwash water.



The BBWWTF control system is designed to manually switch pumping back to the Reclaimed Water Storage Pond once the facility effluent meets the Public Access Reuse criteria. Substandard effluent from the Effluent Holding Pond drains into the

on-site lift station (submersible pumps) where it is conveyed back to the head of the facility for further treatment. The return of this substandard effluent to the head of the treatment facility is through a manually operated valve based on flow conditions.

A. Public Access Reuse System

Reclaimed water is pumped to the following slow-rate public access sites for land application reuse if the effluent meets Public Access Reuse criteria:

Reuse User	FDEP Monitoring Location	Site Size (acres)	Disposal Capacity (MGD)
Barefoot Bay GC	FLW-3	50	0.124
Sprayfield	FLW-4	40	0.130
Infiltration Impoundment	FLW-5	320	0.787
Totals:		410	1.041



B. Surface Water Disposal System

In peak flow situations, typically in response to intense rainfall events associated with tropical systems and severe localized thunderstorms within the Barefoot Bay Wastewater Management System Service Area or when there is no remaining reclaimed water storage, the facility effluent can be discharged to the Micco Ditch System and thence the North Prong of the Sebastian River and eventually to the Indian River Lagoon.

In such a situation, the effluent pumps shut down, causing the level in the Transfer Pump Station wet well to rise. The effluent then overflows a weir in the wetwell and is conveyed to the Dechlorination Chamber. A dechlorination chemical is mixed in with the effluent, and the chamber provides a minimum contact time of approximately two (2) minutes. The effluent is aerated and monitored prior to discharge into the Micco Ditch System.

When a surface water discharge is expected, alum can be added to the effluent end of the aerobic basins to decrease the phosphorous concentration and Micro-C (supplemental carbon) can be added to the secondary clarifier effluent, prior to entering the tertiary filtration system, to reduce the effluent nitrate concentration (denitrification). ***There have been no surface water discharges from the Barefoot Bay Advanced WWTF since 2012.***

3.2.6 Sludge Management System

The sludge management system at the Barefoot Bay Advanced WWTF consists of the following infrastructure components/elements: (1) A two-stage aerobic digestion system; (2) blower system with coarse bubble diffusers; and (3) sludge load-out system. Waste Activated Sludge (WAS) is pumped from the secondary clarifiers in the ring-steel biological treatment units to the two-stage aerobic digestion system. The aerobic digestion system provides a total sludge treatment volume of 0.463 MG and a detention time of (39) days to reduce the volatile solids content of the sludge.

Sludge feed pumps are used to convey stabilized sludge from the aerobic digestion system to the sludge load-out system. The sludge is transported, by a 3rd party sludge hauling firm to the Brevard County South Central Regional WRF for further treatment and dewatering prior to final disposal at a local Class I solid waste landfill.

3.3 HISTORICAL WASTEWATER FLOWS

Historical wastewater flows, including monthly ADF flows, three-month ADF flows and annual ADF flows, for the Barefoot Bay Advanced WWTF for Calendar Years 2016 - 2020 are presented in Table 3.3-1 and are plotted as a function of time in Figures 3.3-1 through 3.3-3, respectively. Historical annual variations in raw wastewater flow (Calendar Years 2016 - 2020) are presented below in tabular form.

Calendar Year	AADF (MGD)	Max Month Flow (MGD)	Maximum 3-Month ADF		Maximum 3-Month ADF to AADF	Maximum Month Peaking Factor
			Month	Flow (MGD)		
2016	0.693	1.035	March	0.871	1.257	1.494
2017	0.780	1.517	November	1.271	1.629	1.945
2018	0.552	0.803	September	0.846	1.533	1.455
2019	0.669	1.357	October	0.925	1.383	2.028
2020	0.721	1.036	November	0.873	1.211	1.437
Five Year Average Flow Ratios/Factors:					1.402	1.672

Table 3.3-1: Barefoot Bay Advanced WWTF - Historical Wastewater Flows

Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2016	1.035		
FEBRUARY	2016	0.935		
MARCH	2016	0.643	0.871	
APRIL	2016	0.551	0.710	
MAY	2016	0.796	0.663	
JUNE	2016	0.741	0.696	
JULY	2016	0.576	0.704	
AUGUST	2016	0.500	0.606	
SEPTEMBER	2016	0.816	0.631	
OCTOBER	2016	0.752	0.689	
NOVEMBER	2016	0.487	0.685	
DECEMBER	2016	0.489	0.576	0.693
JANUARY	2017	0.520	0.499	0.651
FEBRUARY	2017	0.555	0.522	0.619
MARCH	2017	0.526	0.534	0.609
APRIL	2017	0.442	0.508	0.600
MAY	2017	0.373	0.447	0.565
JUNE	2017	0.676	0.497	0.559
JULY	2017	0.918	0.656	0.588
AUGUST	2017	0.738	0.777	0.608
SEPTEMBER	2017	1.201	0.952	0.640
OCTOBER	2017	1.517	1.152	0.704
NOVEMBER	2017	1.094	1.271	0.754
DECEMBER	2017	0.787	1.133	0.779

Table 3.3-1: Barefoot Bay Advanced WWTF - Historical Wastewater Flows (Cont'd)

Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2018	0.656	0.846	0.790
FEBRUARY	2018	0.595	0.679	0.794
MARCH	2018	0.527	0.593	0.794
APRIL	2018	0.499	0.540	0.798
MAY	2018	0.803	0.609	0.834
JUNE	2018	0.709	0.670	0.837
JULY	2018	0.508	0.673	0.803
AUGUST	2018	0.609	0.609	0.792
SEPTEMBER	2018	0.466	0.528	0.731
OCTOBER	2018	0.405	0.493	0.638
NOVEMBER	2018	0.411	0.427	0.581
DECEMBER	2018	0.438	0.418	0.552
JANUARY	2019	0.503	0.451	0.539
FEBRUARY	2019	0.636	0.526	0.543
MARCH	2019	0.572	0.570	0.546
APRIL	2019	0.524	0.577	0.549
MAY	2019	0.489	0.528	0.522
JUNE	2019	0.495	0.503	0.505
JULY	2019	0.572	0.519	0.510
AUGUST	2019	1.357	0.808	0.572
SEPTEMBER	2019	0.657	0.862	0.588
OCTOBER	2019	0.761	0.925	0.618
NOVEMBER	2019	0.722	0.713	0.644
DECEMBER	2019	0.731	0.738	0.668

Table 3.3-1: Barefoot Bay Advanced WWTF - Historical Wastewater Flows (Cont'd)

Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2020	0.654	0.702	0.681
FEBRUARY	2020	0.610	0.665	0.679
MARCH	2020	0.556	0.607	0.677
APRIL	2020	0.523	0.563	0.677
MAY	2020	0.534	0.538	0.681
JUNE	2020	0.941	0.666	0.718
JULY	2020	0.945	0.807	0.749
AUGUST	2020	0.644	0.843	0.690
SEPTEMBER	2020	0.660	0.750	0.690
OCTOBER	2020	1.036	0.780	0.713
NOVEMBER	2020	0.924	0.873	0.730
DECEMBER	2020	0.619	0.860	0.721

A review of the historical raw wastewater flows to the Barefoot Bay Advanced WWTF, during the past five (5) years and in Calendar Year 2020, are synopsized in the table below.

Raw Wastewater Flow Condition	Barefoot Bay Advanced WWTF Raw Wastewater Flow (MGD)	
	Jan 2016 - Dec 2020	Calendar Year 2020
Average Daily Flow	0.683	0.721
Maximum Day Flow	2.520	1.905
Minimum Day Flow	0.225	0.422
Monthly ADF Range	0.373 - 1.517	0.523 - 1.036
3-Month ADF Range	0.418 - 1.271	0.538 - 0.873
AADF Range (monthly rolling average)	0.505 - 0.837	0.677 - 0.749
% of Permitted Facility Capacity (ADF)	75.9	80.1

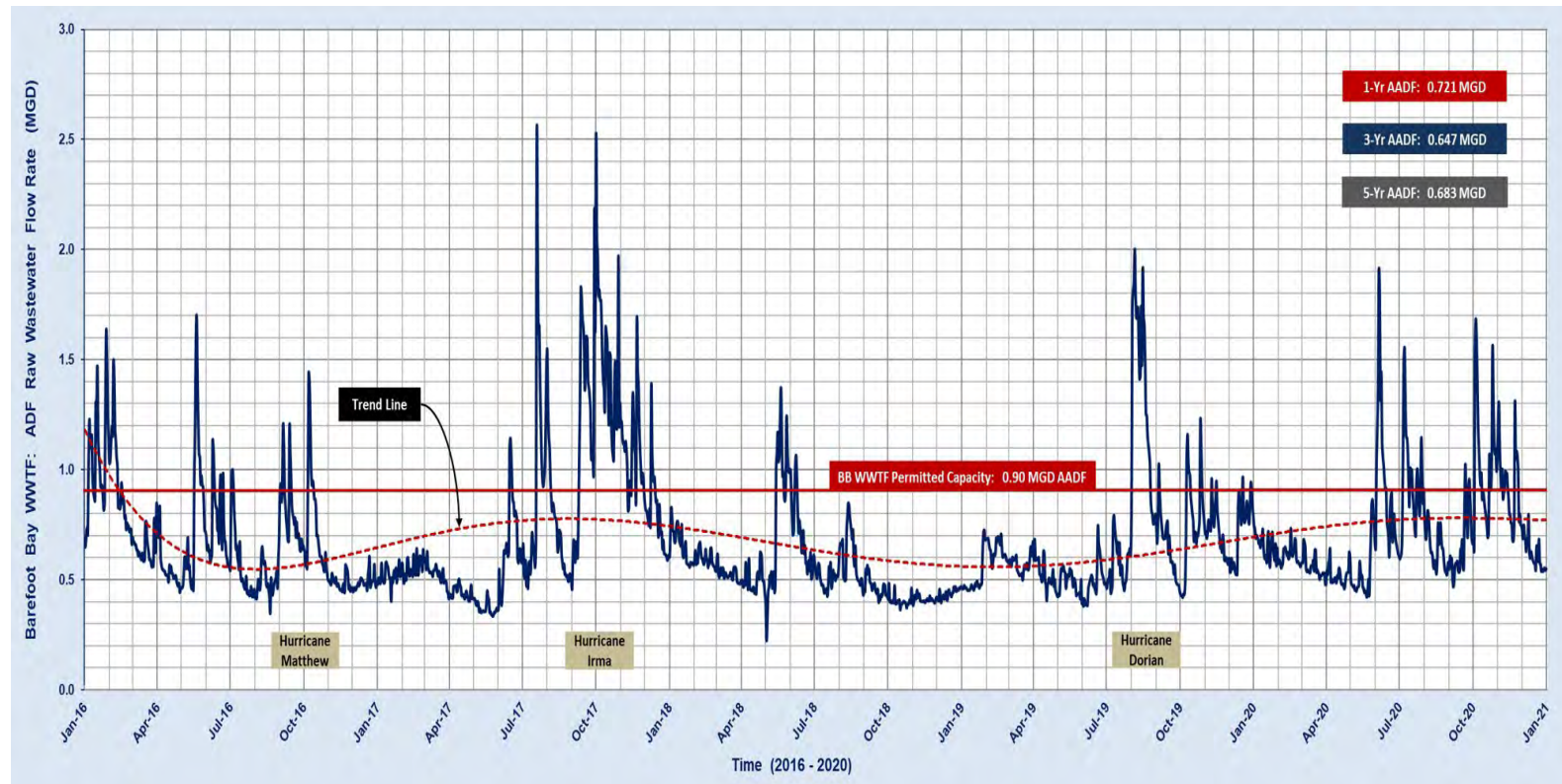


FIGURE 3.3-1

BAREFOOT BAY ADVANCED WWTF: HISTORICAL WASTEWATER FLOWS (ADF)

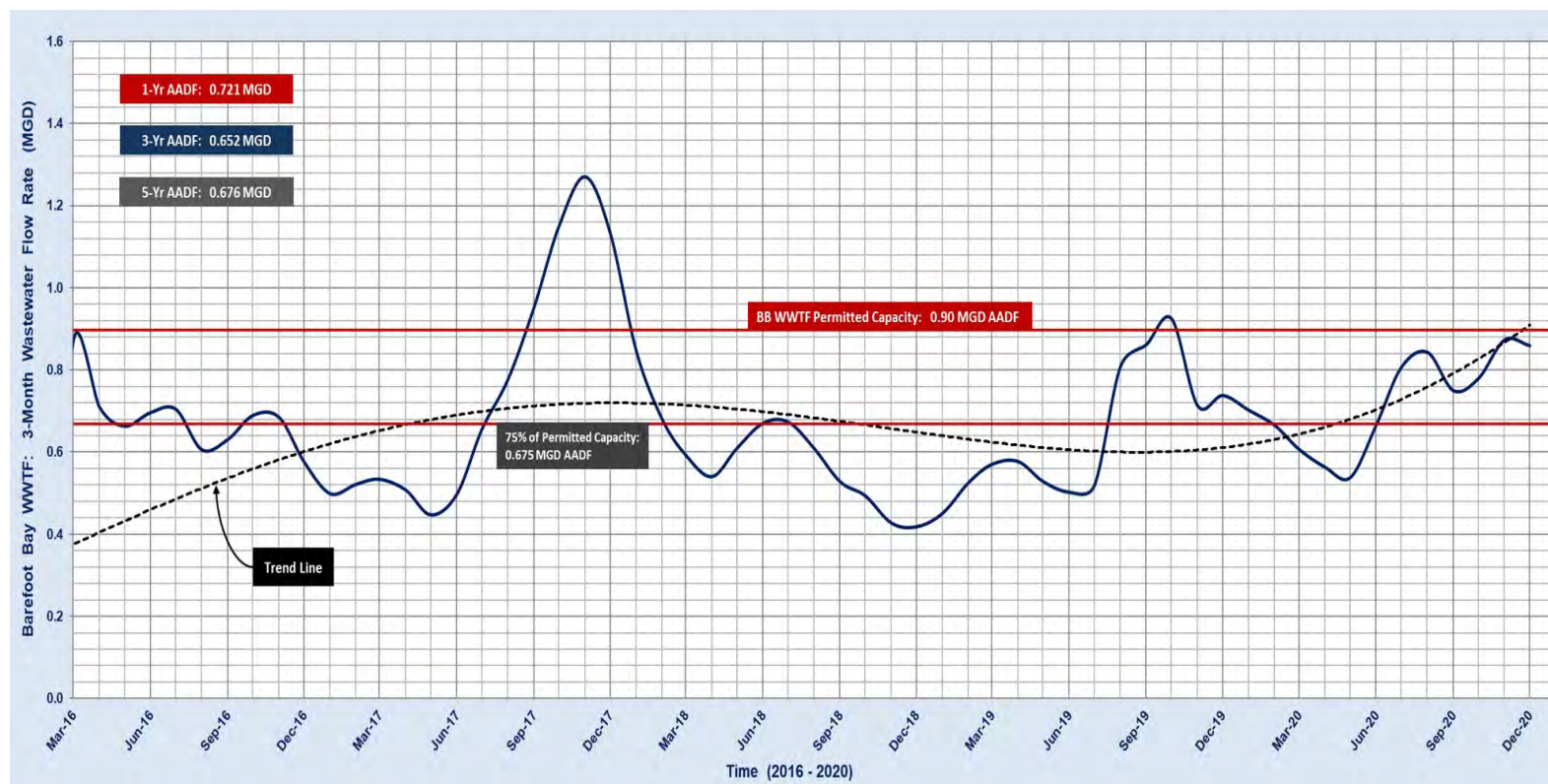


FIGURE 3.3-2

**BAREFOOT BAY ADVANCED WWTF:
HISTORICAL WASTEWATER FLOWS (3-MONTH ADF)**

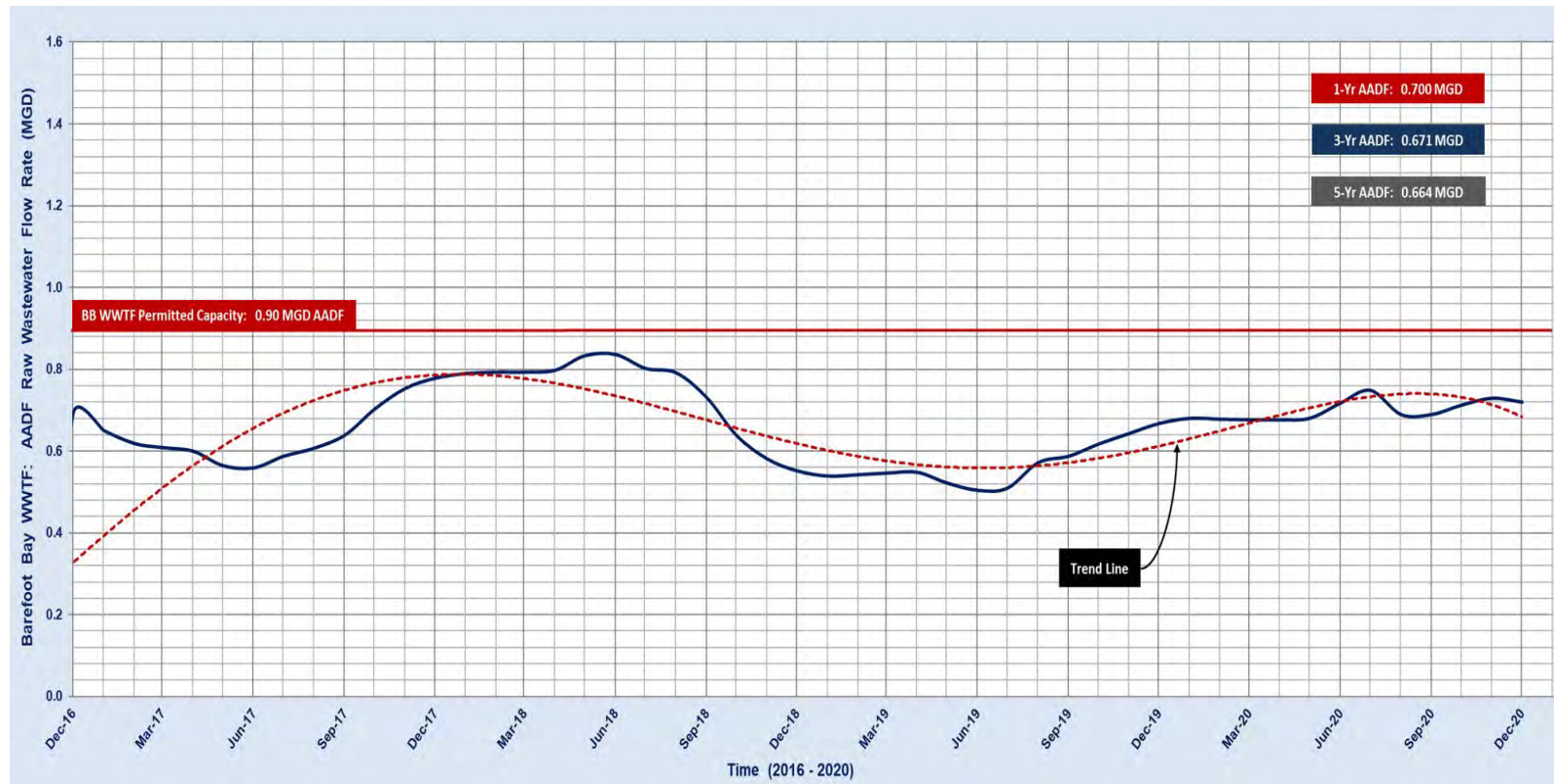


FIGURE 3.3-3

BAREFOOT BAY ADVANCED WWTF: HISTORICAL WASTEWATER FLOWS (AADF)

The Barefoot Bay Advanced WWTF raw wastewater flows, during the last 5-Year period, were approximately 75.9% of the permitted capacity of the facility. The raw wastewater flow treated at the facility during Calendar Year 2020 was approximately 80.1% of the permitted capacity of the facility. Thus, flow rates are below the facility's permitted capacity (0.9 MGD AADF) and the Barefoot Bay Advanced WWTF is capable of handling the raw wastewater hydraulic loadings anticipated over the 20-year planning horizon.

3.4 FACILITY EFFLUENT FLOWS

As previously indicated in Section 3.2.5, treated effluent from the Barefoot Bay Advanced WWTF can be discharged to any of the four (4) FDEP-permitted disposal systems:

Effluent Disposal System	Disposal Capacity (MGD AADF)
Sprayfield	0.130
Barefoot Bay Golf Course	0.124
Infiltration Impoundment	0.787
Surface Water Discharge to Micco Ditch System	0.188

The Barefoot Bay Advanced WWTF effluent flows, by disposal system, on a monthly and annual basis, for the period from 2016 - 2020 are presented in Table 3.4-1 and graphically (ADF) in Figures 3.4-1 through 3.4-3, respectively.

The data indicates that the Barefoot Bay Advanced WWTF has reused 100% of the facility's annual average effluent flow over the five-year period from January 2016 - December 2020. There were no surface water discharges to the Micco Ditch System during this time period. ***Therefore, the Barefoot Bay Advanced WWTF meets the requirements of 403.064(17)(a)(3)(d) in that it has reused a minimum of 90% of the facility's effluent AADF over the past five (5) calendar years (2016 - 2020).***

3.5 FACILITY EFFLUENT QUALITY

Reclaimed water quality (CBOD₅, TSS, TN, TP, pH and Fecal Coliform) generated by the Barefoot Bay Advanced WWTF, for the past five calendar years (2016 - 2020), is presented in Table 3.5-1. The Barefoot Bay Advanced WWTF treatment system efficiencies for the same five-year period are presented in a tabular form below.

Table 3.4-1: Barefoot Bay Advanced WWTF - Effluent Disposal (2016 - 2020)				
Month/Year	Sprayfield (MGD)	Barefoot Bay Golf Course (MGD)	Infiltration Impoundment (MGD)	Surface Water Discharge (MGD)
Jan 2016	0.000	0.940	0.000	0.000
Feb 2016	0.000	0.866	0.000	0.000
Mar 2016	0.301	0.158	0.000	0.000
Apr 2016	0.209	0.101	0.002	0.000
May 2016	0.365	0.000	0.308	0.000
Jun 2016	0.095	0.000	0.616	0.000
Jul 2016	0.024	0.082	0.320	0.000
Aug 2016	0.023	0.045	0.263	0.000
Sep 2016	0.157	0.000	0.703	0.000
Oct 2016*	0.177	0.029	0.566	0.000
Nov 2016	0.030	0.169	0.186	0.000
Dec 2016	0.048	0.065	0.239	0.000
2016 Average	0.119	0.205	0.267	0.000
Jan 2017	0.080	0.156	0.247	0.000
Feb 2017	0.086	0.146	0.296	0.000
Mar 2017	0.000	0.150	0.344	0.000
Apr 2017	0.001	0.274	0.179	0.000
May 2017	0.000	0.279	0.055	0.000
Jun 2017	0.153	0.011	0.482	0.000
Jul 2017	0.069	0.008	0.719	0.000
Aug 2017	0.100	0.000	0.673	0.000
Sep 2017	0.164	0.000	0.802	0.000
Oct 2017**	0.000	0.000	0.993	0.000
Nov 2017	0.000	0.000	0.982	0.000
Dec 2017	0.000	0.000	0.793	0.000
2017 Average	0.054	0.085	0.547	0.000

Table 3.4-1: Barefoot Bay Advanced WWTF - Effluent Disposal (2016 - 2020)				
Month/Year	Sprayfield (MGD)	Barefoot Bay Golf Course (MGD)	Infiltration Impoundment (MGD)	Surface Water Discharge (MGD)
Jan 2018	0.000	0.000	0.666	0.000
Feb 2018	0.380	0.068	0.338	0.000
Mar 2018	0.022	0.227	0.259	0.000
Apr 2018	0.000	0.202	0.224	0.000
May 2018	0.052	0.019	0.651	0.000
Jun 2018	0.000	0.000	0.620	0.000
Jul 2018	0.000	0.000	0.416	0.000
Aug 2018	0.000	0.000	0.587	0.000
Sep 2018	0.000	0.000	0.356	0.000
Oct 2018	0.019	0.101	0.195	0.000
Nov 2018	0.000	0.119	0.282	0.000
Dec 2018	0.000	0.120	0.325	0.000
2018 Average	0.039	0.071	0.410	0.000
Jan 2019	0.000	0.136	0.359	0.000
Feb 2019	0.000	0.000	0.570	0.000
Mar 2019	0.007	0.184	0.312	0.000
Apr 2019	0.000	0.153	0.367	0.000
May 2019	0.032	0.107	0.294	0.000
Jun 2019	0.030	0.050	0.366	0.000
Jul 2019	0.015	0.019	0.489	0.000
Aug 2019	0.000	0.000	0.976	0.000
Sep 2019	0.000	0.046	0.617	0.000
Oct 2019	0.016	0.070	0.513	0.000
Nov 2019	0.000	0.000	0.583	0.000
Dec 2019	0.000	0.000	0.726	0.000
2019 Average	0.008	0.064	0.514	0.000

Table 3.4-1: Barefoot Bay Advanced WWTF - Effluent Disposal (2016 - 2020)									
Month/Year		Sprayfield (MGD)		Barefoot Bay Golf Course (MGD)		Infiltration Impoundment (MGD)		Surface Water Discharge (MGD)	
Jan 2020		0.033		0.000		0.549		0.000	
Feb 2020		0.011		0.000		0.538		0.000	
Mar 2020		0.065		0.000		0.256		0.000	
Apr 2020		0.095		0.010		0.241		0.000	
May 2020		0.062		0.000		0.306		0.000	
Jun 2020		0.120		0.000		0.859		0.000	
Jul 2020		0.091		0.000		0.901		0.000	
Aug 2020		0.011		0.000		0.653		0.000	
Sep 2020		0.046		0.000		0.578		0.000	
Oct 2020		0.121		0.000		0.936		0.000	
Nov 2020		0.082		0.000		0.879		0.000	
Dec 2020		0.000		0.000		0.559		0.000	
2020 Average		0.061		0.001		0.605		0.000	
Effluent Disposal Percentage by Disposal System (2016 - 2020)									
Calendar Year	Effluent Disposal System (MGD AADF)				Overall Effluent Disposal (%)				
	Sprayfield	Golf Course	Infiltr. Impound.	SW Discharge	Sprayfield	Golf Course	Infiltr. Impound.	SW Discharge	
2016	0.119	0.205	0.267	0.000	20.1%	34.7%	45.2%	0.0%	
2017	0.054	0.085	0.547	0.000	7.9%	12.4%	79.7%	0.0%	
2018	0.039	0.071	0.410	0.000	7.5%	13.7%	78.8%	0.0%	
2019	0.008	0.064	0.514	0.000	1.4%	10.9%	87.7%	0.0%	
2020	0.061	0.001	0.605	0.000	9.1%	0.2%	90.7%	0.0%	
5-Yr Avg.	0.056	0.085	0.469	0.000	9.2%	14.4%	76.4%	0.0%	
Overall 5-Year Barefoot Bay Advanced WWTF Effluent Disposal by System:					Total Reuse Flow (R-001)		Surface Water Discharge (D-001)		
					100.0%		0.0%		

* Hurricane Matthew

** Hurricane Irma

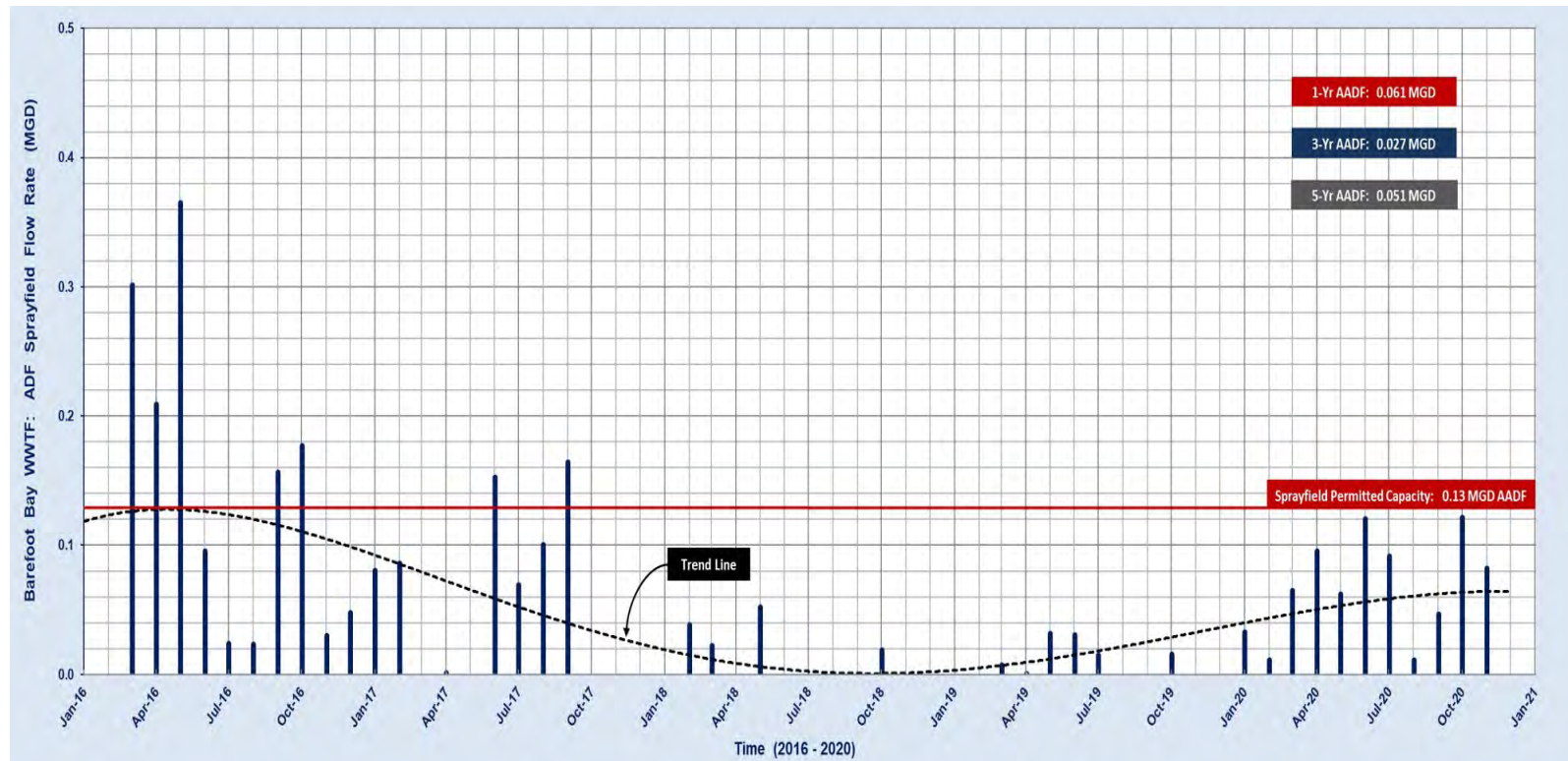


FIGURE 3.4-1

**BAREFOOT BAY ADVANCED WWTF: SPRAYFIELD PUBLIC
ACCESS REUSE SYSTEM (R-001) - HISTORICAL MONTHLY ADF**

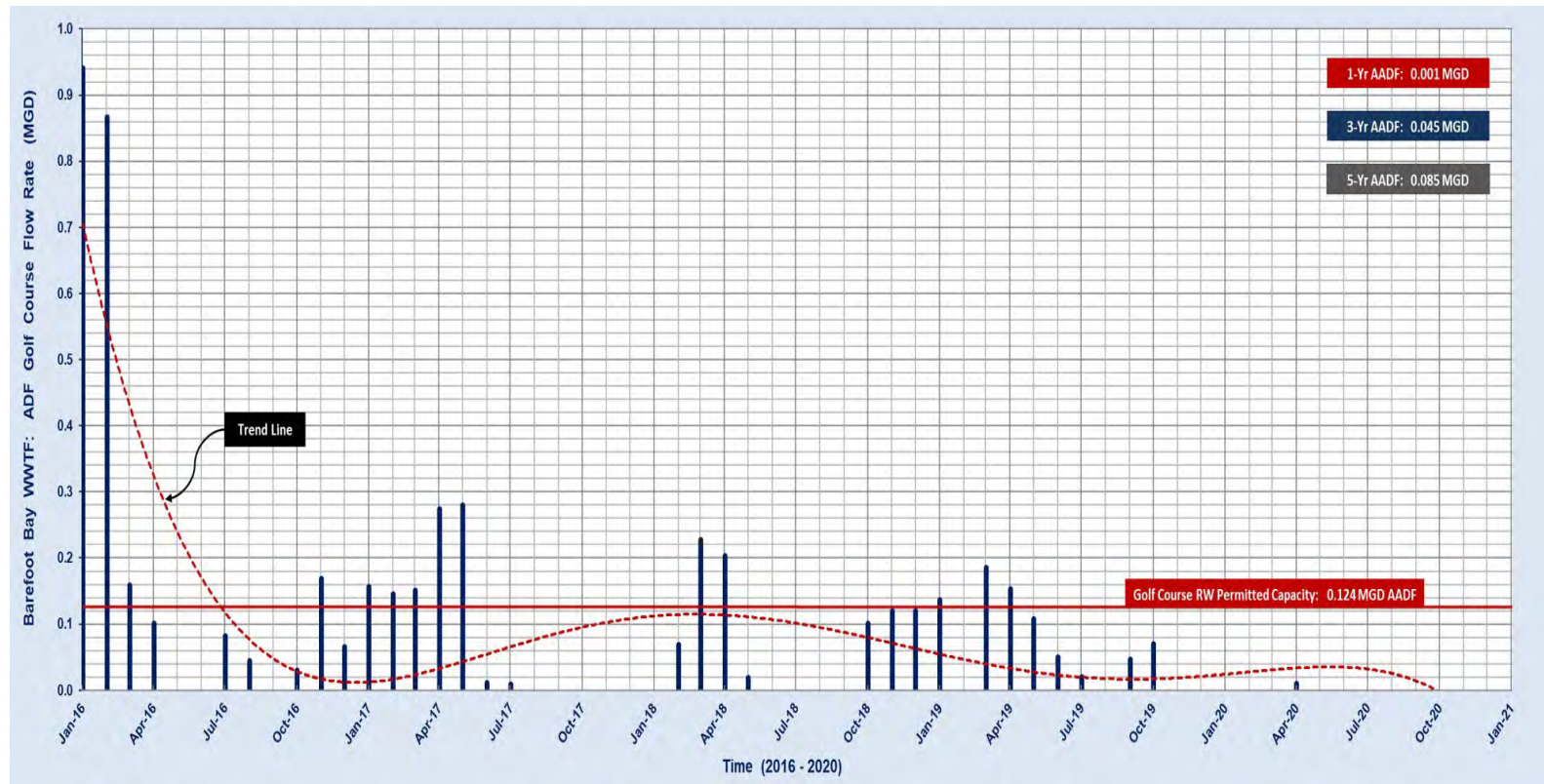


FIGURE 3.4-2

BAREFOOT BAY ADVANCED WWTF: GOLF COURSE PUBLIC ACCESS REUSE SYSTEM (R-001) - HISTORICAL MONTHLY ADF

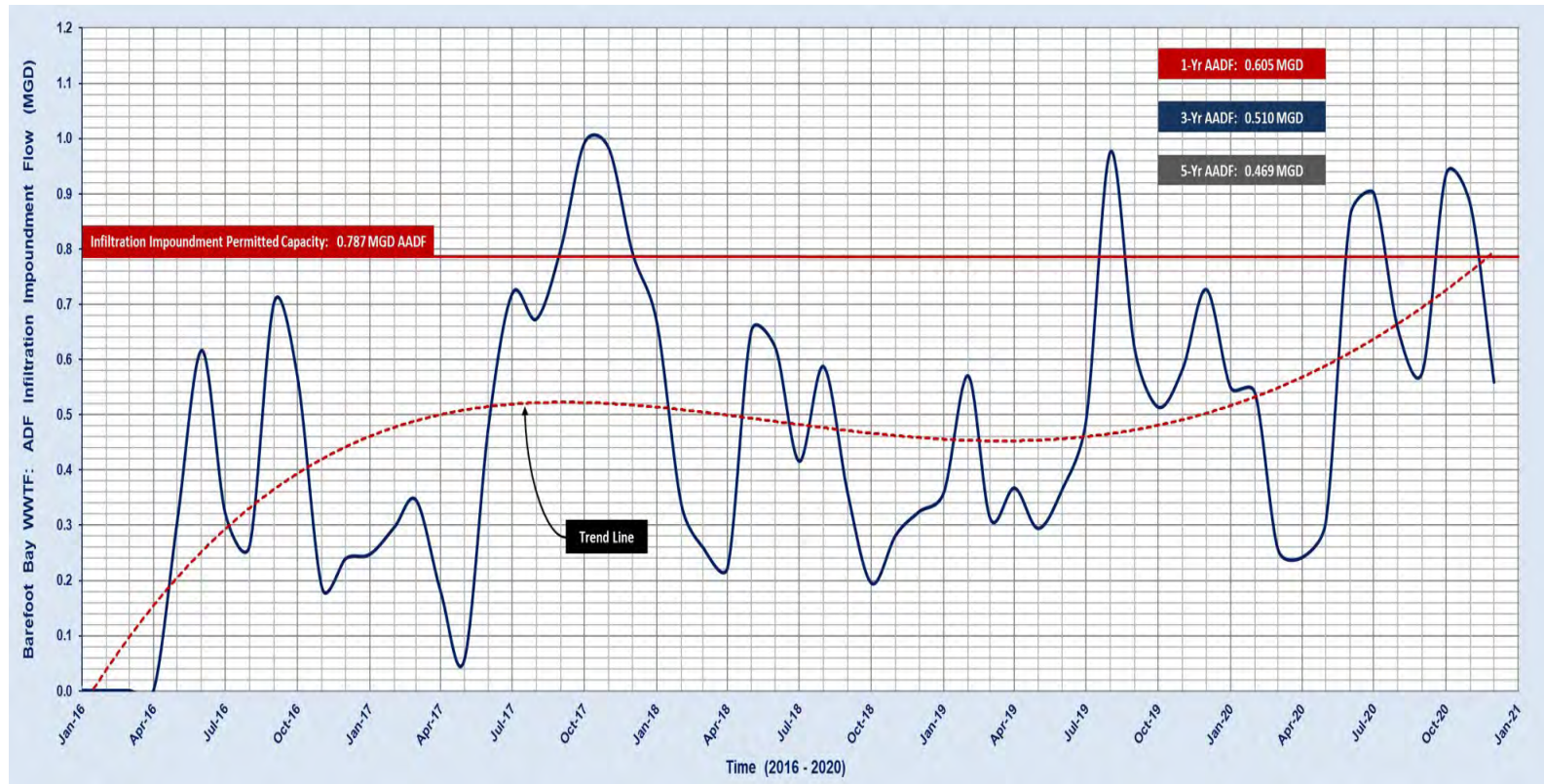


FIGURE 3.4-3

BAREFOOT BAY ADVANCED WWTF: INFILTRATION IMPOUNDMENT
PUBLIC ACCESS REUSE SYSTEM (R-001) - HISTORICAL MONTHLY ADF

Table 3.5-1: Barefoot Bay Advanced WWTF - Reclaimed Water Quality (2016 - 2020)						
Month/Year	CBOD ₅ (mg/L)	TSS (mg/L)	TN (mg/L)	TP (mg/L)	pH (S.U.)	Fecal (#/100 mL)
Permit Limit	20	5	---	---	6.0 - 8.5	25
Jan 2016	2.7	0.5	8.9	1.5	7.38	< 1
Feb 2016	3.3	0.5	6.7	1.4	7.42	< 1
Mar 2016	3.6	0.5	7.7	3.3	7.50	< 1
Apr 2016	5.9	0.5	7.2	3.7	7.67	< 1
May 2016	4.0	0.8	7.0	3.2	7.49	< 1
Jun 2016	3.2	0.5	8.4	2.1	7.56	< 1
Jul 2016	5.2	0.5	6.2	2.3	7.66	< 1
Aug 2016	5.8	0.6	9.1	4.0	7.59	< 1
Sep 2016	3.5	0.5	8.2	1.9	7.51	< 1
Oct 2016	2.0	0.5	9.4	2.0	7.53	< 1
Nov 2016	1.7	0.5	11.4	3.9	7.34	< 1
Dec 2016	2.0	0.5	10.8	4.4	7.32	< 1
2016 Avg.	3.6	0.5	8.4	2.8	7.50	< 1
Jan 2017	1.9	0.5	11.7	4.5	7.31	< 1
Feb 2017	1.0	0.5	11.5	4.3	7.27	< 1
Mar 2017	3.1	0.5	11.4	4.4	7.20	< 1
Apr 2017	2.1	0.5	10.2	4.4	7.30	< 1
May 2017	3.9	0.5	11.9	5.2	7.26	< 1
Jun 2017	3.9	0.5	11.3	2.5	7.40	< 1
Jul 2017	2.5	0.6	8.7	2.4	7.39	< 1
Aug 2017	1.2	0.5	7.8	2.0	7.45	< 1
Sep 2017	1.0	0.7	6.9	1.4	7.50	< 1
Oct 2017	1.0	0.5	6.2	0.9	7.34	< 1
Nov 2017	1.3	0.5	7.4	1.3	7.33	< 1
Dec 2017	1.0	0.5	8.7	1.9	7.38	< 1
2017 Avg.	2.0	0.5	9.5	2.9	7.34	< 1

Table 3.5-1: Barefoot Bay Advanced WWTF - Reclaimed Water Quality (2016 - 2020)						
Month/Year	CBOD ₅ (mg/L)	TSS (mg/L)	TN (mg/L)	TP (mg/L)	pH (S.U.)	Fecal (#/100 mL)
Permit Limit	20	5	---	---	6.0 - 8.5	25
Jan 2018	1.4	0.5	9.4	1.6	7.45	< 1
Feb 2018	1.0	0.5	10.8	3.6	7.37	< 1
Mar 2018	1.3	0.5	11.6	4.4	7.36	< 1
Apr 2018	1.0	0.5	11.9	4.7	7.30	< 1
May 2018	1.7	0.5	11.4	3.5	7.23	< 1
Jun 2018	1.5	0.5	9.5	2.0	7.32	< 1
Jul 2018	2.6	0.5	15.5	3.4	7.36	< 1
Aug 2018	1.0	0.5	9.6	2.4	7.35	< 1
Sep 2018	1.0	0.5	12.0	3.4	7.34	< 1
Oct 2018	1.0	0.5	14.9	4.2	7.17	< 1
Nov 2018	1.3	0.5	14.5	4.6	7.11	< 1
Dec 2018	1.4	0.5	11.8	4.4	7.18	< 1
2018 Avg.	1.3	0.5	11.9	3.5	7.30	< 1
Jan 2019	1.3	0.5	18.0	4.5	6.97	< 1
Feb 2019	1.0	0.5	11.1	3.5	7.10	< 1
Mar 2019	1.0	0.5	11.7	4.2	7.13	< 1
Apr 2019	1.0	0.7	12.0	4.5	6.99	< 1
May 2019	1.0	0.6	8.3	3.4	7.21	< 1
Jun 2019	1.3	0.6	13.0	3.7	7.16	< 1
Jul 2019	1.0	0.6	13.1	3.0	7.19	< 1
Aug 2019	1.0	0.6	8.4	1.3	7.23	< 1
Sep 2019	1.4	0.6	12.3	1.0	7.35	< 1
Oct 2019	1.3	0.6	8.2	2.3	7.25	< 1
Nov 2019	1.0	0.6	8.0	1.4	7.27	< 1
Dec 2019	1.3	0.6	10.4	3.0	7.20	< 1
2019 Avg.	1.1	0.6	11.2	3.0	7.17	< 1

Table 3.5-1: Barefoot Bay Advanced WWTF - Reclaimed Water Quality (2016 - 2020)						
Month/Year	CBOD ₅ (mg/L)	TSS (mg/L)	TN (mg/L)	TP (mg/L)	pH (S.U.)	Fecal (#/100 mL)
Permit Limit	20	5	---	---	6.0 - 8.5	25
Jan 2020	1.0	0.6	10.1	3.1	7.28	< 1
Feb 2020	1.0	0.6	10.3	3.6	7.25	< 1
Mar 2020	1.0	0.6	10.1	4.5	7.09	< 1
Apr 2020	1.0	0.6	11.8	4.3	7.20	< 1
May 2020	1.6	0.6	9.1	4.3	7.09	< 1
Jun 2020	1.0	0.6	6.8	1.9	7.17	< 1
Jul 2020	1.0	0.6	7.4	1.5	7.27	< 1
Aug 2020	1.0	0.6	10.7	2.3	7.26	< 1
Sep 2020	1.5	0.6	8.8	2.3	7.24	< 1
Oct 2020	1.0	0.6	7.4	1.5	7.16	< 1
Nov 2020	1.0	0.6	8.6	1.5	7.27	< 1
Dec 2020	1.2	0.7	10.8	3.0	7.15	< 1
2020 Avg.	1.1	0.6	9.3	2.8	7.20	< 1
5-Year Avg.	1.8	0.5	10.1	3.0	7.30	< 1
5-Yr % Removal	99.2%	99.8%	79.9%	62.5%	---	---

Barefoot Bay Advanced WWTF - Treatment System Efficiency (2016 - 2020)*							
Parameter	Influent Conc. (mg/L)	Influent Loading (lb/day)	Effluent Conc. (mg/L)	Effluent Load (lb/day)	Parameter Removal (lb/day)	Percent Removal	
						Design	Actual
CBOD ₅	218	1,242	1.8	10	1,232	90%	99.2%
TSS	307	1,746	0.5	3	1,743	90%	99.8%
TN**	50	285	10.1	57	228	80%	79.9%
TP**	8	46	3.0	17	28	70%	62.5%

* AADF (2016 - 2020): 0.683 MGD

** Assumed Influent Concentration (testing not required by permit)

3.5.1 CBOD₅ Treatment (Removal) Efficiency

Over the past five-year period (Calendar Years 2016 - 2020), actual influent CBOD₅ concentrations have been slightly below the values used in the design of the facility. The Barefoot Bay Advanced WWTF has the ability to operate efficiently between 50 mg/L and 400 mg/L by adjusting process operations.

The effluent CBOD₅ concentrations are below the design values used for the facility, typical AWT standards (< 5 mg/L), and meet the limitations identified in the current FDEP Operations Permit.

The 5-Year CBOD₅ treatment (removal) efficiency averaged approximately 99.2%; which is greater than the design treatment efficiency of 90% and the minimum FDEP requirement of 85%. The effluent CBOD₅ concentration from the facility has been significantly below the design value of 5 mg/L. ***Thus, the Barefoot Bay Advanced WWTF is highly effective in removing organic wastes from the raw wastewater.***

3.5.2 TSS Treatment (Removal) Efficiency

Over the past five-year period (Calendar Years 2016 - 2020), actual influent TSS concentrations have been below the values used in the design of the facility; although the facility has the ability to operate efficiently between 40 mg/L and 500 mg/L by adjusting process operations.

The effluent TSS concentrations are below the design values used for the facility, typical AWT standards (< 5 mg/L) and meet the limitations identified in the current FDEP Operations Permit.

The 5-Year TSS treatment (removal) efficiency averaged approximately 99.8%; which is greater than the design treatment efficiency of 90% and the minimum FDEP requirement of 85%. The effluent TSS concentration has been significantly below the design value of 5 mg/L. ***Thus, the Barefoot Bay Advanced WWTF is highly effective in removing suspended solids from the raw wastewater as well as those generated in the treatment process.***

3.5.3 TN Treatment (Removal) Efficiency

Over the past five-year period (Calendar Years 2016 - 2020), actual influent TKN concentrations have been in the range of values used in the design of the facility. The facility has the ability to operate efficiently between 20 mg/L and 60 mg/L by adjusting process operations.

The 5-Year TN treatment (removal) efficiency averaged approximately 79.9% with an average annual effluent TN concentration of 10.1 mg/L over the past five calendar year period (2016 - 2020). The BBWWTF's FDEP Operations Permit limits the TN concentration in surface water discharges to no more than 3.75 mg/L on a monthly basis and a mass loading of no more than 476 lb TN annually. Unfortunately, the County would be in violation of the current effluent TN limitations if any surface water discharges were to occur due to the elevated TN concentrations.

Therefore, ***operational, process and infrastructure improvements, modifications and adjustments will be required to meet the current surface water effluent TN concentrations and Section 403.086, F.S., as it relates to meeting AWT criteria for any discharges of effluent to the Indian River Lagoon. It is recommended that an engineering study be conducted to address the elevated effluent TN concentrations and provide both short-term and long-term recommendations and solutions to resolve this issue.***

3.5.4 TP Treatment (Removal) Efficiency

Over the past five-year period (Calendar Years 2016 - 2020), actual influent TP concentrations have been in the range of values used in the design of the facility. The facility has the ability to operate efficiently between 2 mg/L and 12 mg/L by adjusting process operations and/or adding alum/polymer to the biological treatment units (enhancing TP removal via chemical precipitation).

The 5-Year TP treatment (removal) efficiency averaged approximately 62.5% with an average annual effluent TN concentration of 3.0 mg/L over the past five calendar year period (2016 - 2020). The BBWWTF's FDEP Operations Permit limits the TP concentration in surface water discharges to no more than 1.25 mg/L on a monthly basis and a mass loading of no more than 78 lb TP annually. Unfortunately, the County would be in violation of the current effluent TP limitations if any surface water discharges were to occur due to the elevated TP concentrations.

Therefore, ***operational, process and infrastructure improvements, modifications and TP concentrations and Section 403.086, F.S., as it relates to meeting AWT criteria for any discharges of effluent to the Indian River Lagoon. It is recommended that an engineering study be conducted to address the elevated effluent TP concentrations and provide both short-term and long-term recommendations and solutions to resolve this issue.***

SECTION 4

NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION PLAN

4.1 THE BAREFOOT BAY ADVANCED WWTF DISCHARGE ELIMINATION PLAN

The Barefoot Bay Advanced WWTF, located at 7773 Dottie Drive, Barefoot Bay, FL, 32976 is an *Advanced Secondary Treatment plus Filtration* Facility (Category I, Class B), utilizing two (2) ring-steel wastewater treatment units to treat the incoming raw wastewater from the collection and transmission system. The treatment facility consists of dual static influent screening systems, a flow splitter box, flow equalization basin, two (2) treatment trains (each with anoxic and aerobic basins along with a central secondary clarifier), tertiary filtration, chemical feed facilities, high-level disinfection, a dechlorination system (for surface water discharges), pumping systems, reclaimed water storage and a lined substandard effluent holding pond.

Biosolids management at the Barefoot Bay Advanced WWTF consists of aerobic digestion of the waste activated sludge followed by hauling of the biosolids, by a 3rd party sludge hauling firm, to the Brevard County South Central Regional WRF for further treatment and dewatering prior to final disposal at a local Class I solid waste landfill.

The treatment facility discharges highly treated reclaimed water to any of the four FDEP-permitted effluent disposal systems:

Effluent Disposal	FDEP Designation	Monitoring Location	Site Size (acres)	Overall Disposal Capacity (MGD)
Barefoot Bay Golf Course	R-001	FLW-3	50	0.124
Sprayfield	R-001	FLW-4	40	0.130
Infiltration Impoundment	R-001	FLW-5	320	0.787
Surface Water Discharge	D-001	FLW-1	---	0.188
Totals:			410	1.229

As previously presented in Section 3.4 of this document, an analysis of facility effluent flows by disposal system, over the past five (5) Calendar Years, was conducted with the following results:

Effluent Disposal Percentage by Disposal System (2016 - 2020)								
Calendar Year	Effluent Disposal System (MGD AADF)				Overall Effluent Disposal (%)			
	Sprayfield	Golf Course	Infiltr. Impound.	SW Discharge	Sprayfield	Golf Course	Infiltr. Impound.	SW Discharge
2016	0.119	0.205	0.267	0.000	20.1%	34.7%	45.2%	0.0%
2017	0.054	0.085	0.547	0.000	7.9%	12.4%	79.7%	0.0%
2018	0.039	0.071	0.410	0.000	7.5%	13.7%	78.8%	0.0%
2019	0.008	0.064	0.514	0.000	1.4%	10.9%	87.7%	0.0%
2020	0.061	0.001	0.605	0.000	9.1%	0.2%	90.7%	0.0%
5-Yr Avg.	0.056	0.085	0.469	0.000	9.2%	14.4%	76.4%	0.0%
Overall 5-Year Barefoot Bay Advanced WWTF Effluent Disposal by System:					Total Reuse Flow (R-001)		Surface Water Discharge (D-001)	
					100.0%		0.0%	

The data indicates that the Barefoot Bay Advanced WWTF has reused 100% of the facility's annual average effluent flow over the past five-year period from January 2016 - December 2020. There has not been a surface water discharge from the BBWWTF to the Micco Ditch System since September 2012.

Therefore, in accordance with the requirements of the 403.064(17)(a)(3)(d), Florida Statutes, the Surface Water Discharge Elimination Plan for the Barefoot Bay Advanced WWTF does not provide for a complete elimination of the FDEP-permitted surface water discharge to the Micco Ditch System and thence to the St. Johns River and eventually to the Indian River Lagoon. However, Brevard County is providing the FDEP with an affirmation demonstration (as provided for in the law), based on the analyses and evaluations conducted in Section 3 of this document, that the Barefoot Bay WWTF is reusing a minimum of 90% of its annual average effluent flow as determined using the daily monitoring data from the previous five (5) Calendar Years (2016 - 2020) of operating data. In accordance with the regulatory requirements of 403.064, F.S., the County will therefore continue to utilize the FDEP-permitted discharge from the Barefoot Bay WWTF to the Micco Ditch System and will not exceed the 0.188 MGD AADF flow limitation. The current facility effluent disposal system (irrigation of the

sprayfield and Barefoot Bay golf course and the Infiltration Impoundment) has the capacity to handle the current wastewater flows and those anticipated in the 20-year planning horizon; with the exception of potentially heavy rainfalls associated with tropical events and intense localized storms.

In accordance with Section 403.064(17), Florida Statutes, Brevard County is also required to provide the following information as part of the Surface Water Discharge Elimination Plan:

Plan Information to Be Provided	Value	Explanation
The average flow (MGD) of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters and the date of such elimination	0.0 MGD AADF	Facility reuses more than 90% of its annual effluent flow based on the past 5 calendar years of operational data
The average flow (MGD) of surface water discharge that will continue in accordance with the requirements for the elimination of ocean outfalls, one of the discharge conditions specified in the legislation or one of the hardship conditions;	0.188 MGD AADF (maximum)	This is the permitted surface water discharge capacity in the current facility FDEP Operations Permit. In addition, the BBWWTF has not discharged to the surface water disposal system since September 2012.
The level of treatment which the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative	Advanced Secondary Treatment Levels* (5, 5, 3.75, 1.25)	The BBWWTF provides advanced secondary treatment of the raw wastewater received at the facility. consists of two BNR treatment trains capable of potentially generating reclaimed water meeting AWT standards/levels

* Modifications to the BBWWTF treatment process may be required to meet AWT Standards ($BOD_5 < 5 \text{ mg/L}$; $TSS < 5 \text{ mg/L}$; $TN < 3 \text{ mg/L}$; and $TP, 1 \text{ mg/L}$) required by Section 403.086, F.S. This is further discussed in Section 4.3 of this document.

4.2 CAPACITY AND EFFICIENCY OF THE BAREFOOT BAY ADVANCED WWTF

A detailed evaluation of the historical wastewater flows to the Barefoot Bay Advanced WWTF was conducted in Section 3.3 of this document. The raw wastewater flow rate received at the treatment facility, over the past five (5) Calendar Years (2016 - 2020), averaged 0.683 MGD, or 75.9% of the facility's treatment capacity. Therefore, the Barefoot Bay Advanced WWTF has the hydraulic capacity to treat the raw wastewater flows over the 20-year planning horizon.

Likewise, a detailed evaluation of the facility effluent quality, over the past five (5) Calendar Years (2016 - 2020), was conducted in Section 3.5 of this document. The reclaimed water quality produced and treatment efficiencies are as follows:

Barefoot Bay Advanced WWTF - Treatment System Efficiency (2016 - 2020)			
Parameter	Influent Conc. (mg/L)	Effluent Conc. (mg/L)	Parameter Removal
CBOD ₅	218	1.8	99.2%
TSS	307	0.5	99.8%
TN	50	10.1	79.9%
TP	8	3.0	62.5%

Therefore, the Barefoot Bay Advanced WWTF is capable of treating the incoming raw wastewater and generating a reclaimed water product that is in compliance with the current FDEP Operations Permit using the existing unit operations and processes at the facility.

4.3 ABILITY OF THE BAREFOOT BAY ADVANCED WWTF TO MEET “CURRENT” AND “FUTURE” NUTRIENT LIMITS

The wastewater treatment systems at the Barefoot Bay Advanced WWTF consist of primary, secondary and tertiary treatment unit operations and processes to remove contaminants inherent in the raw wastewater influent and meet the Federal and State regulatory standards.

The reclaimed water quality produced by the Barefoot Bay Advanced WWTF during the past five-year period (2016 - 2020) and the ability of the facility to meet AWT Criteria is presented in the table below.

Parameter	AWT Effluent Limits (mg/L)	Effluent Concentration (mg/L)*	“Current” Facility Effluent Meets AWT Criteria
BOD ₅	5	1.8	Yes
TSS	5	0.5	Yes
Total Nitrogen (TN)	3	10.1	No
Total Phosphorus (TP)	1	3.0	No
pH	6.0 - 8.5	7.26	Yes

* Concentrations of reclaimed water constituents from Jan 2016 - Dec 2020

** Values in “red” exceed the AWT Criteria

To meet the surface water discharge nutrient limitations and mass loadings (TN, TP) required in the current Barefoot Bay WWTF Operations Permit and the regulatory

requirements mandated in Section 403.086, Florida Statutes, the following alternatives need to be evaluated for implementation based on the elevated effluent TN and TP concentrations previously discussed in Sections 3.5.3 and 3.5.4 of this document:

- 1. Alternative No. 1:** **Construction of a new BNR treatment facility.** The new treatment facility would be designed using state-of-the-art BNR treatment technologies, systems and equipment to specifically meet AWT standards and produce a high-quality effluent that is low in nitrogen and phosphorus. Primary, secondary and tertiary treatment systems would be designed to take advantage of the state-of-the-art technologies that have been developed in the last 3 - 5 years. The new treatment facility would meet all industry standards and codes, and use energy-efficient, cost-effective and sustainable technologies. The infrastructure would be built using concrete and corrosion resistant materials (Type 316 stainless steel, etc.) to be able to withstand the salt environment, the corrosive nature of the wastewater and associated gases, and tropical events. The concrete tankage would have a service life, if properly maintained, of 50 - 100 years. This alternative would save construction time and cost, over the long-term, as it could be built on a *greenfield site* while the existing BBWWTF would continue to treat the raw wastewater generated within the service area. Upon commissioning of the new treatment facility, raw wastewater flows from the service area would be directed to it for processing and the existing BBWWTF decommissioned in accordance with FDEP requirements.
- 2. Alternative No. 2:** **Significant infrastructure improvements throughout the existing treatment facility in an attempt to produce an effluent that is low in TN and TP.** The existing BBWWTF and its infrastructure, unit operations and unit processes was never designed to meet the rigorous and low-level effluent TN and TP concentrations required today by the regulatory agencies. Thus, many of the structures, tankage and equipment would have to be totally replaced. This project would include the construction of new infrastructure that is capable of producing an effluent that is low in TN and TP; replace antiquated, corroded, and safety-questionable equipment and infrastructure; and replace infrastructure that has reached the end of its service life. All of this work would have to be accomplished in the small footprint available at

the existing facility site and would have to be constructed while the treatment facility is actively processing and treating the wastewater from the service area and the biosolids generated in the treatment process. This alternative would take much more time to construct (busy, constricted site with a lot of existing infrastructure) and therefore more long-term costs would be realized by the County.

It is recommended that an engineering evaluation/study be conducted to address the elevated effluent TN and TP concentrations and determine the most cost-effective, energy efficient, and sustainable solution for wastewater treatment in this area of Brevard County. However, time is of the essence as the requirement for wastewater treatment facilities that could potentially discharge effluent to the Indian River Lagoon, directly or indirectly, to meet the effluent AWT standards is July 1, 2025, per Section 403.086, Florida Statutes. The following activities must be completed by the mandated deadline (07/01/2025):

- Engineering Evaluation/Study to determine the most cost-effective, energy-efficient and sustainable alternative to produce an effluent, on a consistent basis, that meets the AWT standards.
- Siting of the proposed improvements and potential acquisition of the land, if not already owned by the County.
- Conceptual, preliminary and final engineering design of the proposed improvements.
- Permitting of the proposed improvements.
- Acquiring project funding for the proposed improvements (SRF Loan, Bonds, etc.)
- Competitive bidding of the proposed improvements in accordance with State and Federal Law.
- Construction of the proposed improvements.
- Check-out, demonstration testing, operator training, seeding of the biological treatment system, optimization of all unit operations and processes and commissioning of the facility with all regulatory agencies.

Due to the compressed timeline to meet the regulatory mandate, this project needs to begin to move forward very soon and will have to be integrated into the County's Utility Capital Improvements Program (CIP).

APPENDIX A

BAREFOOT BAY ADVANCED WWTF: “EXISTING” FDEP OPERATIONS PERMIT



OCTOBER 2021

This page intentionally left blank



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

NOTICE OF PERMIT

Tammy.Hurley@Brevardfl.Gov
Edward.Fontanin@Brevardfl.Gov

In the Matter of an
Application for Permit by:
Brevard County Utilities Services Department
931 Barefoot Blvd.
Barefoot Bay, FL 32876

Brevard County - DW
BCUD Barefoot Bay WRF
Wastewater Permit Application
DEP File No: FL0042293-011

ATTENTION Edward Fontanin
Director

Enclosed is Permit Number FL0042293 to operate a domestic wastewater facility issued under Chapter 403 Florida Statutes.

Monitoring requirements under this permit are effective on the first day of the second month following the effective date of the permit. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any.

NOTICE OF RIGHTS

Judicial Review

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68, F.S. by the filing of a notice of appeal under Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days after this order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

A handwritten signature in black ink, appearing to read "Nathan Hess".

Nathan Hess
Program Administrator
Permitting and Waste Cleanup Program

NJH/ee/dj

Enclosures: Permit, DMR, and Fact Sheet

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

DEP: Marc Harris, David Smicherko, Reggie Phillips, Dennise Judy
Brian L. Woodworth, P.E., Wade Trim Consultants, bwoodworth@WadeTrim.com
Gregory M. Munson, Esq., Gunster, Yoakley, & Stewart, PA, gmunson@gunster.com

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

October 16, 2019

Date



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:
Brevard County Utilities Services Department

PERMIT NUMBER: FL0042293 (Minor)
FILE NUMBER: FL0042293-011-DW1P
EFFECTIVE DATE: October 16, 2019
EXPIRATION DATE: October 15, 2024

RESPONSIBLE OFFICIAL:

Edward Fontanin,
Director
Edward.Fontanin@Brevardfl.Gov

2725 Judge Fran Jamieson Way
BLDG. A-213
Melbourne, Florida 32940-6605
(321) 633-2091

FACILITY:

Barefoot Bay Advanced WWTF
7773 Dottie Drive
Barefoot Bay, FL 32976-7003
Brevard County
Latitude: 27°53' 19.2037" N Longitude: 80°32' 10.5212" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.) and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The permittee named above is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

WASTEWATER TREATMENT:

The treatment plant is an existing 0.90 mgd annual average daily flow (AADF) permitted capacity advanced wastewater treatment system. Major process components include influent screening, flow equalization, two anoxic/aeration basins, secondary clarification, chemical feed systems for coagulant aids and Micro-C, filtration, chlorination, dechlorination, and aerobic digestion of biosolids.

REUSE OR DISPOSAL:

Surface Water Discharge D-001: This is an existing 0.188 MGD annual average daily flow permitted capacity discharge to the Micco Ditch system (WBID# 3121) thence to the North Prong of the Sebastian River, (WBID# 3128), Class III fresh waters. The discharge is limited to 91 days per year. The outfall is approximately 2.5 feet in length and discharges at a depth of approximately 5 feet. The point of discharge is located approximately at latitude 27°53' 18" N, longitude 80°32' 10" W.

Land Application R-001: This is an existing 1.041 MGD AADF permitted capacity slow-rate public access system (R-001), consisting of a 0.13 MGD AADF permitted capacity 40-acre spray field, a 0.124 MGD AADF permitted capacity 50-Acre Barefoot Bay Golf Course, and a 0.787 MGD AADF infiltration impoundment (formerly permitted as a sprayfield) with 12 acres of exfiltration trenches on a 320-acre site. Storage facilities include an existing 1.8 mg on-site lined reject pond and an existing 4.0 MG reclaimed water pond. Land application system R001 is located approximately at latitude 27° 52' 48" N, longitude 80° 32' 55" W.

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

IN ACCORDANCE WITH: The limitations, monitoring requirements, and other conditions set forth in this cover sheet and Part I through Part IX on pages 1 through 26 of this permit.

PERMITTEE: Brevard County Utilities Services Department
 FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
 EXPIRATION DATE: October 15, 2024

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

- During the period beginning on the effective date of the permit, and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D-001 to North Prong of Sebastian River. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.8.

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (To outfall)	MGD	Max Max	0.188 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-1	See I.A.3
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max	6.25 7.5 10.0	Monthly Average Weekly Average Single Sample	Weekly	16-hr FPC	EFD-1	See I.A.5
Solids, Total Suspended	mg/L	Max Max Max	6.25 7.5 10.0	Monthly Average Weekly Average Single Sample	Weekly	16-hr FPC	EFD-1	See I.A.5
Coliform, Fecal	#/100mL	Max Max Max	14 14 86	Annual Average Monthly Median Single Sample	Weekly	Grab	EFA-2	See I.A.4
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	5 Days/Week	Grab	EFD-2	
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	5 Days/Week	Grab	EFA-2	See I.A.6
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	Weekly	Grab	EFD-2	
Nitrogen, Total	mg/L	Max Max Max	3.75 4.5 6.0	Monthly Average Weekly Average Single Sample	Weekly	16-hr FPC	EFD-1	
Nitrogen, Total	lb/yr	Max Max	476.0 Report	Annual Total Monthly Total	Monthly	16-hr FPC	EFD-1	
Phosphorus, Total (as P)	mg/L	Max Max Max	1.25 1.5 2.0	Monthly Average Weekly Average Single Sample	Weekly	16-hr FPC	EFD-1	
Phosphorus, Total (as P)	lb/yr	Max Max	78.0 Report	Annual Total Monthly Total	Monthly	16-hr FPC	EFD-1	
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	5 Days/Week	Grab	EFD-2	

PERMITTEE: Brevard County Utilities Services Department
 FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
 EXPIRATION DATE: October 15, 2024

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Annually	4 grabs/24 hr.period	EFD-2	See I.A.7
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsi)	percent	Min	100	Single Sample	Annually	4 grabs/24 hr.period	EFD-2	See I.A.7
Coliform, Fecal	#/100mL	Max	14	Annual Average	Monthly	Grab	EFD-2	See I.A.4
		Max	14	Monthly Median				
		Max	43	90th Percentile				
		Max	86	Single Sample				

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-1	90-degree V-notch weir and flow recorder downstream of dechlorination chamber
EFD-1	Automatic sampler at the end of the Dechlorination Chamber
EFA-2	Sampling point at the end of the Chlorine Contact Chamber
EFD-2	Sampling point at the end of the Dechlorination Chamber

3. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
4. The effluent limitation for the monthly median for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly median shall be calculated and reported on the Discharge Monitoring Report to be used to calculate the annual average. [62-600.440(7)(b)]
5. In accordance with subsections 62-600.420(1) and (2), F.A.C., the monthly average effluent CBOD₅ and TSS concentrations shall not exceed 15% of their respective influent values (i.e., 85% removal).
[62-600.420(1) and (2)]
6. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(5)(c), (6)(b), and (7)(c)]
7. The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from outfall D-001.
- a. Effluent Limitation
- (1) In any routine or additional follow-up test for acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent. [Rules 62-302.200(1), 62-302.500(1)(a)4., 62-4.244(3)(a), and 62-4.241, F.A.C.]
- b. Monitoring Frequency
- (1) Routine toxicity tests shall be conducted annually, the first during the next discharge event, and lasting for the duration of this permit.
- c. Sampling Requirements
- (1) Routine tests shall be conducted on four separate grab samples collected at evenly-spaced (6-hr) intervals over a 24-hour period. The four grab samples shall be used in eight bioassays (four bioassays for each species) and shall represent one test. If the duration of the discharge is less than 24-hours, the duration of discharge shall be documented on the chain of custody.
- (2) For additional follow-up tests, the first test shall be conducted on four separate grab samples collected at evenly-spaced (6-hr) intervals over a 24-hour period. The four grab samples shall be used in four separate bioassays for each species that failed the routine test. The four grab samples represent one test. The second follow-up test shall be run on a single grab sample collected on the day and time when the greatest toxicity was identified in the routine or first additional follow-up test.
- d. Test Requirements
- (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: **100%, 75%, 50%, 25%, and 12.5%** effluent.
- (2) The permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the daphnid, **Ceriodaphnia dubia**, and the bannerfin shiner, **Cyprinella leedsi**, concurrently.
- (3) All test species, procedures and quality assurance criteria used shall be in accordance with **Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms**, 5th Edition, EPA-821-R-02-012. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct acute toxicity testing in accordance with the revised method.
- (4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-012, Table 7.

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

e. Quality Assurance Requirements

- (1) A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly acute toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
- (2) If the mortality in the control (0% effluent) exceeds 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated. The repeat test shall begin within 14 days after the last day of the invalid test.
- (3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 10% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
- (4) Routine and additional follow-up tests shall be evaluated for acceptability based on the concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2., and included with the bioassay laboratory reports.

f. Reporting Requirements

- (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine Test Results: If an LC50 >100% effluent occurs in all four separate grab sample tests for the test species, ">100%" shall be entered on the DMR for that test species. If in any of the four separate grab sample tests for the test species an LC50 <100% effluent occurs, the lowest calculated LC50 effluent concentration shall be entered on the DMR for that test species.
 - (b) Additional Follow-up Test Results: For each additional test required, the calculated LC50 value shall be entered on the DMR for that test species.
- (2) A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
- (3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-012, Section 12, and mailed within 30 days after the last day of the second valid additional follow-up test.
- (4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
- (5) The same bioassay data shall not be reported as the results of more than one test.
- (6) All bioassay laboratory reports shall be sent to:
Florida Department of Environmental Protection
Central District Office
3319 Maguire Blvd, Suite 232
Orlando, Florida 32803-3767

g. Test Failures

- (1) A test fails when the test results do not meet the limits in 7.a.(1).
- (2) Additional Follow-up Tests:
 - (a) If a routine test does not meet the acute toxicity limitation in 7.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 7.d.
 - (b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
 - (c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 75%, 50%, 25%, and 12.5% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be statistically analyzed according to the procedures in EPA-821-R-02-012.

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

- (3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.
- (a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.
 - (b) The Department shall review and approve the plan before initiation.
 - (c) The plan shall be initiated within 30 days following the Department's written approval of the plan.
 - (d) Progress reports shall be submitted quarterly to the Department at the address above.
 - (e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 7.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 7.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012, a repeat test shall be initiated within 14 days after the last day of the invalid routine test.
 - (f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 7.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 14 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.
- (4) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for whole effluent toxicity failures.

[62-4.241, 62-620.620(3)]

PERMITTEE: Brevard County Utilities Services Department
 FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
 EXPIRATION DATE: October 15, 2024

B. Reuse and Land Application Systems

- During the period beginning on the effective date of the permit and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.8.:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Public access reuse)	MGD	Max Max	1.041 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-2	See I.B.3
Flow (Golf course)	MGD	Max	Report	Annual Average	Continuous	Recording Flow Meter with Totalizer	FLW-3	
Flow (Sprayfield)	MGD	Max	0.130	Annual Average	Continuous	Recording Flow Meter with Totalizer	FLW-4	
Flow (Infiltration impoundment)	MGD	Max	0.787	Annual Average	Continuous	Recording Flow Meter with Totalizer	FLW-5	
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	16-hr FPC	EFA-1	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	4 Days/Week	Grab	EFB-1	
Coliform, Fecal	#/100mL	Max	25	Single Sample	4 Days/Week	Grab	EFA-2	
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	4 Days/Week	Calculated	EFA-2	See I.B.4
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	5 Days/Week	Grab	EFA-2	
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-2	See I.B.5 and I.B.8
Turbidity	NTU	Max	Report	Single Sample	Continuous	Meter	EFB-1	See I.B.6 and I.B.8
Nitrogen, Total	mg/L	Max	Report	Single Sample	Weekly	16-hr FPC	EFA-1	
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	Weekly	16-hr FPC	EFA-1	
Giardia	cysts/100L	Max	Report	Single Sample	Every 5 years	Grab	EFA-2	See I.B.9
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	Every 5 years	Grab	EFA-2	See I.B.9

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

2. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I.B.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-2	propeller meter downstream of the effluent transfer pumps
FLW-3	Flow meter to Barefoot Bay Golf Course
FLW-4	Flow meter to 40 acre spray field site
FLW-5	Flow meter to 320-acre impoundment site
EFA-1	Automatic sampler at the end of the Chlorine Contact Chamber
EFB-1	Sampling point after filtration and prior to chlorination
EFA-2	Sampling point at the end of the Chlorine Contact Chamber

3. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
4. To report the "% less than detection," count the number of fecal coliform observations that were less than detection, divide by the total number of fecal coliform observations in the month, and multiply by 100% (round to the nearest integer). [62-600.440(6)(a)]
5. The minimum total chlorine residual shall be limited as described in the approved operating protocol, such that the permit limitation for fecal coliform bacteria will be achieved. In no case shall the total chlorine residual be less than 1.0 mg/L. [62-600.440(6)(b)][62-610.460(2)][62-610.463(2)]
6. The maximum turbidity shall be limited as described in the approved operating protocol, such that the permit limitations for total suspended solids and fecal coliforms will be achieved. [62-610.463(2)]
7. The treatment facilities shall be operated in accordance with all approved operating protocols. Only reclaimed water that meets the criteria established in the approved operating protocol(s) may be released to system storage or to the reuse system. Reclaimed water that fails to meet the criteria in the approved operating protocol(s) shall be directed to reject storage for subsequent additional treatment or disinfection. [62-610.320(6) and 62-610.463(2)]
8. Instruments for continuous on-line monitoring of total residual chlorine and turbidity shall be equipped with an automated data logging or recording device. [62-610.463(2)]
9. Intervals between sampling for Giardia and Cryptosporidium shall not exceed five years. [62-610.463(4)]

PERMITTEE: Brevard County Utilities Services Department
 FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
 EXPIRATION DATE: October 15, 2024

C. Other Limitations and Monitoring and Reporting Requirements

- During the period beginning on the effective date of the permit and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.C.8.:

			Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Total through plant)	MGD	Max Max Max	0.90 Report Report	Annual Average Monthly Average Quarterly Average	Continuous	Recording Flow Meter with Totalizer	INF-1	See I.C.4
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	INF-1	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max Max	Report Report	Single Sample Annual Average	Weekly	16-hr FPC	INF-2	See I.C.3
Solids, Total Suspended (Influent)	mg/L	Max Max	Report Report	Single Sample Annual Average	Weekly	16-hr FPC	INF-2	See I.C.3

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

2. Samples shall be taken at the monitoring site locations listed in Permit Condition I.C.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
INF-1	Influent flow meter at headworks.
INF-2	Automatic sampler at screen box.

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-600.660(4)(a)]
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
5. Sampling results for giardia and cryptosporidium shall be reported on DEP Form 62-610.300(4)(a)4, Pathogen Monitoring, which is attached to this permit. This form shall be submitted to the Department's Central District Office and to DEP's Reuse Coordinator in Tallahassee. [62-610.300(4)(a)]
- a. The sample collection, analytical test methods, and method detection limits (MDLs) applicable to this permit shall be conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-600, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled "FAC 62-4 MDL/PQL Table (May 31, 2019)" is available at <https://floridadep.gov/dear/quality-assurance/content/quality-assurance-resources>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
- (1) The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
 - (2) The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
 - (3) If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantitation limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. [62-4.246, 62-160]

6. The permittee shall provide safe access points for obtaining representative samples which are required by this permit. [62-600.650(2)]
7. **Monitoring requirements under this permit are effective December 1, 2019.** Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

REPORT Type on DMR	Monitoring Period	Submit by
Monthly	first day of month - last day of month	28 th day of following month
Quarterly	January 1 - March 31 April 1 - June 30 July 1 - September 30 October 1 - December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 31	July 28 January 28
Annual	January 1 - December 31	January 28

The permittee shall use the electronic DMR system approved by the Department (EzDMR) and shall electronically submit the completed DMR forms using the DEP Business Portal at <http://www.fldeportal.com/go/>, unless the permittee has a waiver from the Department in accordance with 40 CFR 127.15. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation.

[62-620.610(18)][62-600.680(1)]

8. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for asbestos, total coliform, color, odor, and residual disinfectants). These monitoring results shall be reported to the Department annually on the DMR. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted with the signed DMR in lieu of performing the analysis. When such a certification is submitted with the DMR, monitoring not required this period should be noted on the DMR. The annual reclaimed water or effluent analysis report, and certification if applicable, shall be completed and submitted in a timely manner so as to be received by the Department at the address identified on the DMR by January 28 of each year. Approved analytical methods identified in Rule 62-620.100(3)(j), F.A.C., shall be used for the analysis. If no method is included for a parameter, methods specified in Chapter 62-550, F.A.C., shall be used. [62-600.660(2) and (3)(d)][62-600.680(2)][62-610.300(4)]
9. The permittee shall submit an Annual Reuse Report using DEP Form 62-610.300(4)(a)2. on or before January 1 of each year. [62-610.870(3)]
10. Operating protocol(s) shall be reviewed and updated periodically to ensure continuous compliance with the minimum treatment and disinfection requirements. Updated operating protocols shall be submitted to the Department's Central District Office for review and approval upon revision of the operating protocol(s) and with each permit application. [62-610.320(6)][62-610.463(2)]
11. The permittee shall maintain an inventory of storage systems. The inventory shall be submitted to the Department's Central District Office at least 30 days before reclaimed water will be introduced into any new storage system. The inventory of storage systems shall be attached to the annual submittal of the Annual Reuse Report. [62-610.464(5)]
12. Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Central District Office at the address specified below:

Electronic submittal is preferred, by sending to DEP_CD@dep.state.fl.us.

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

Phone Number - (407)897-4100

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

[62-620.305]

13. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. [62-620.305]

II. BIOSOLIDS MANAGEMENT REQUIREMENTS

A. Basic Requirements

1. Biosolids generated by this facility may be transferred to BCUD/South Central WRF or disposed of in a Class I solid waste landfill. Transferring biosolids to an alternative biosolids treatment facility does not require a permit modification. However, use of an alternative biosolids treatment facility requires submittal of a copy of the agreement pursuant to Rule 62-640.880(1)(c), F.A.C., along with a written notification to the Department at least 30 days before transport of the biosolids. [62-620.320(6), 62-640.880(1)]
2. The permittee shall monitor and keep records of the quantities of biosolids generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled. These records shall be kept for a minimum of five years. [62-640.650(4)(a)]
3. Biosolids quantities shall be monitored by the permittee as specified below. Results shall be reported on the permittee's Discharge Monitoring Report for Monitoring Group RMP-Q in accordance with Condition I.C.8.

			Biosolids Limitations		Monitoring Requirements		
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1

[62-640.650(5)(a)1]

4. Biosolids quantities shall be calculated as listed in Permit Condition II.3 and as described below:

Monitoring Site Number	Description of Monitoring Site Calculations
RMP-1	Biosolids leaving the facility

5. The treatment, management, transportation, use, land application, or disposal of biosolids shall not cause a violation of the odor prohibition in subsection 62-296.320(2), F.A.C. [62-640.400(6)]
6. Storage of biosolids or other solids at this facility shall be in accordance with the Facility Biosolids Storage Plan. [62-640.300(4)]
7. Biosolids shall not be spilled from or tracked off the treatment facility site by the hauling vehicle. [62-640.400(9)]

B. Disposal

8. Disposal of biosolids, septage, and "other solids" in a solid waste disposal facility, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. [62-640.100(6)(b) & (c)]

C. Transfer

9. The permittee shall not be held responsible for treatment and management violations that occur after its biosolids have been accepted by a permitted biosolids treatment facility with which the source facility has an agreement in accordance with subsection 62-640.880(1)(c), F.A.C., for further treatment, management, or disposal. [62-640.880(1)(b)]

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

10. The permittee shall keep hauling records to track the transport of biosolids between the facilities. The hauling records shall contain the following information:

Source Facility	Biosolids Treatment Facility or Treatment Facility
1. Date and time shipped	1. Date and time received
2. Amount of biosolids shipped	2. Amount of biosolids received
3. Degree of treatment (if applicable)	3. Name and ID number of source facility
4. Name and ID Number of treatment facility	4. Signature of hauler
5. Signature of responsible party at source facility	5. Signature of responsible party at treatment facility
6. Signature of hauler and name of hauling firm	

A copy of the source facility hauling records for each shipment shall be provided upon delivery of the biosolids to the biosolids treatment facility or treatment facility. The treatment facility permittee shall report to the Department within 24 hours of discovery any discrepancy in the quantity of biosolids leaving the source facility and arriving at the biosolids treatment facility or treatment facility.

[62-640.880(4)]

D. Receipt

11. If the permittee intends to accept biosolids from other facilities, a permit revision is required pursuant to paragraph 62-640.880(2)(d), F.A.C. [62-640.880(2)(d)]

III. GROUND WATER REQUIREMENTS

1. The permittee shall give at least a 72-hour notice to the Department's Central District Office, prior to the installation of any monitoring wells. [62-520.600(6)(h)]
2. Before construction of new ground water monitoring wells, a soil boring shall be made at each new monitoring well location to properly determine monitoring well specifications such as well depth, screen interval, screen slot, and filter pack. [62-520.600(6)(g)]
3. Within 30 days after installation of a monitoring well, the permittee shall submit to the Department's Central District Office well completion reports and soil boring/lithologic logs on the attached DEP Form(s) 62-520.900(3), Monitoring Well Completion Report. [62-520.600(6)(j) and .900(3)]
4. All piezometers and monitoring wells not part of the approved ground water monitoring plan shall be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., unless future use is intended. [62-532.500(5)]
5. For the Part III Public Access system, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge shall extend horizontally 100 feet from the application site(s) or to the property boundaries, whichever is less, and vertically to the base of the surficial aquifer. [62-520.200(27)] [62-520.465]
6. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. [62-520.400 and 62-520.420(4)]
7. If the concentration for any constituent listed in Permit Condition III.10. in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative background quality shall be the prevailing standard. [62-520.420(2)]
8. During the period of operation authorized by this permit, the permittee shall continue to sample ground water at the monitoring wells identified in Permit Condition III.9., below in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-520.600, F.A.C. [62-520.600] [62-610.463]

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

9. The following monitoring wells shall be sampled for Reuse System R-001.

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude	Longitude	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
MWB-3	MW-3 BACKGROUND, 2767 and 3005A13766	27°32' 28"	80°32' 8"	24	Surficial	Background	Existing
MWC-2	MW-2 DEEP COMPLIANCE, 2765 and 3005A13768	27°32' 24"	80°32' 10"	30	Surficial	Compliance	Existing
MWC-4	Compliance well at Infiltration Impoundment	27°33' 28"	80°33' 29"	25	Surficial	Compliance	Existing
MWC-5	Compliance Well at Infiltration Impoundment	27°33' 19"	80°33' 3"	25	Surficial	Compliance	Existing
MWC-6	Compliance Well at Infiltration Impoundment	27°32' 41"	80°32' 30"	25	Surficial	Compliance	Existing
MWI-1	MW-1 INTERMEDIATE, 2766 and 3005A13767	27°32' 26"	80°32' 10"	24	Surficial	Intermediate	Existing

[62-520.600] [62-610.463]

10. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.9.:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	In Situ	Quarterly
Nitrogen, Nitrate, Total (as N)	10	mg/L	Grab	Quarterly
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Quarterly
Coliform, Fecal	4	#/100mL	Grab	Quarterly
pH	6.5 - 8.5	s.u.	Grab	Quarterly

[62-520.600(11)(b)] [62-600.670] [62-600.650(3)] [62-520.310(5)]

11. Water levels shall be recorded before evacuating each well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NAVD allowable) at a precision of plus or minus 0.01 foot. [62-520.600(11)(c)] [62-610.463(3)(a)]
12. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-160.210] [62-600.670(3)]
13. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's Central District Office as being more representative of ground water conditions. [62-520.310(5)]
14. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10) in accordance with Permit Condition I.C.8. [62-520.600(11)(b)] [62-600.670] [62-600.680(1)] [62-620.610(18)]
15. If any monitoring well becomes inoperable or damaged to the extent that sampling or well integrity may be affected, the permittee shall notify the Department's Central District Office within two business days from discovery, and a detailed written report shall follow within ten days after notification to the Department. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence or request approval for replacement of the monitoring well. All monitoring well design and replacement shall be approved by the Department's Central District Office before installation. [62-520.600(6)(l)]
16. The permittee shall sample the following monitoring well(s): MWC-4 for the primary and secondary drinking water parameters included in Rules 62-550.310 and 62-550.320, F.A.C., (except for asbestos and all parameters in Table 5 of Chapter 62-550, F.A.C., other than Di(2-ethylhexyl) adipate and Di(2-ethylhexyl) phthalate). Results of this sampling shall be submitted to the Department's Central District Office with the application for permit renewal. Sampling shall occur no sooner than 180 days before submittal of the renewal application. [62-520.600(5)(b)]

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

A. Part III Public Access System(s)

1. This reuse system includes the following major user(s) of reclaimed water (i.e., using 0.1 MGD or more):

Site Number	User Name	User Type	Capacity(MGD)	Acreage
PAA-001A	Barefoot Bay Golf Course	Other Landscape Irrigation	0.124	50
PAA-001B	40 Acre Sprayfield	Other Landscape Irrigation	0.13	40
PAA-001C	320 Acre Infiltration Impoundment	Other Landscape Irrigation	0.787	320
Total			1.041	410

[62-610.800(5)][62-620.630(10)(b)]

2. Cross-connections to the potable water system are prohibited. [62-610.469(7)]
3. A cross-connection control program shall be implemented and/or remain in effect within the areas where reclaimed water will be provided for use and shall be in compliance with the Rule 62-555.360, F.A.C. [62-610.469(7)]
4. The permittee shall conduct inspections within the reclaimed water service area to verify proper connections, to minimize illegal cross-connections, and to verify both the proper use of reclaimed water and that the proper backflow prevention assemblies or devices have been installed and tested. Inspections are required when a customer first connects to the reuse distribution system. Subsequent inspections are required as specified in the cross-connection control and inspection program. [62-610.469(7)(h)]
5. If an actual or potential (e.g. no dual check device on residential connections served by a reuse system) cross-connection between the potable and reclaimed water systems is discovered, the permittee shall:
- Immediately discontinue potable water and/or reclaimed water service to the affected area if an actual cross-connection is discovered.
 - If the potable water system is contaminated, clear the potable water lines.
 - Eliminate the cross-connection and install a backflow prevention device as required by the Rule 62-555.360.F.A.C.
 - Test the affected area for other possible cross-connections.
 - Within 24 hours, notify the Department's Central District Office's domestic wastewater and drinking water programs.
 - Within 5 days of discovery of an actual or potential cross-connection, submit a written report to the Department's Central District Office detailing: a description of the cross-connection, how the cross-connection was discovered, the exact date and time of discovery, approximate time that the cross-connection existed, the location, the cause, steps taken to eliminate the cross-connection, whether reclaimed water was consumed, and reports of possible illness, whether the drinking water system was contaminated and the steps taken to clear the drinking water system, when the cross-connection was eliminated, plan of action for testing for other possible cross-connections in the area, and an evaluation of the cross-connection control and inspection program to ensure that future cross-connections do not occur.

[62-555.350(3) and 62-555.360][62-620.610(20)]

6. Maximum obtainable separation of reclaimed water lines and potable water lines shall be provided and the minimum separation distances specified in Rule 62-610.469(7), F.A.C., shall be provided. Reuse facilities shall be color coded or marked. Underground piping which is not manufactured of metal or concrete shall be color coded using Pantone Purple 522C using light stable colorants. Underground metal and concrete pipe shall be color coded or marked using purple as the predominant color. [62-610.469(7)]

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

7. In constructing reclaimed water distribution piping, the permittee shall maintain a 75-foot setback distance from a reclaimed water transmission facility to public water supply wells. No setback distances are required to other potable water supply wells or to any nonpotable water supply wells. *[62-610.471(3)]*
8. A setback distance of 75 feet shall be maintained between the edge of the wetted area and potable water supply wells, unless the utility adopts and enforces an ordinance prohibiting potable water supply wells within the reuse service area. No setback distances are required to any nonpotable water supply well, to any surface water, to any developed areas, or to any private swimming pools, hot tubs, spas, saunas, picnic tables, barbecue pits, or barbecue grills. *[62-610.471(1), (2), (5), and (7)]*
9. Reclaimed water shall not be used to fill swimming pools, hot tubs, or wading pools. *[62-610.469(4)]*
10. Low trajectory nozzles, or other means to minimize aerosol formation shall be used within 100 feet from outdoor public eating, drinking, or bathing facilities. *[62-610.471(6)]*
11. A setback distance of 100 feet shall be maintained from indoor aesthetic features using reclaimed water to adjacent indoor public eating and drinking facilities. *[62-610.471(8)]*
12. The public shall be notified of the use of reclaimed water. This shall be accomplished by posting of advisory signs in areas where reuse is practiced, notes on scorecards, or other methods. *[62-610.468(2)]*
13. All new advisory signs and labels on vaults, service boxes, or compartments that house hose bibbs along with all labels on hose bibbs, valves, and outlets shall bear the words "do not drink" and "no beber" along with the equivalent standard international symbol. In addition to the words "do not drink" and "no beber," advisory signs posted at storage ponds and decorative water features shall also bear the words "do not swim" and "no nadar" along with the equivalent standard international symbols. Existing advisory signs and labels shall be retrofitted, modified, or replaced in order to comply with the revised wording requirements. For existing advisory signs and labels this retrofit, modification, or replacement shall occur within 365 days after the date of this permit. For labels on existing vaults, service boxes, or compartments housing hose bibbs this retrofit, modification, or replacement shall occur within 730 days after the date of this permit. *[62-610.468, 62-610.469]*
14. The permittee shall ensure that users of reclaimed water are informed about the origin, nature, and characteristics of reclaimed water; the manner in which reclaimed water can be safely used; and limitations on the use of reclaimed water. Notification is required at the time of initial connection to the reclaimed water distribution system and annually after the reuse system is placed into operation. A description of on-going public notification activities shall be included in the Annual Reuse Report. *[62-610.468(6)]*
15. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.414(8)]*
16. Overflows from emergency discharge facilities on storage ponds shall be reported as abnormal events in accordance with Permit Condition IX.20. *[62-610.800(9)]*

V. OPERATION AND MAINTENANCE REQUIREMENTS

A. Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of one or more operators certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category I, Class B facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 8 hours/day for 7 days/week. The lead/chief operator must be a Class B operator, or higher.

[62-620.630(3)][62-699.310] [62-610.462]

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

2. The lead/chief operator shall be employed at the plant full time. "Full time" shall mean at least 4 days per week, working a minimum of 35 hours per week, including leave time. A licensed operator shall be on-site and in charge of each required shift for periods of required staffing time when the lead/chief operator is not on-site. An operator meeting the lead/chief operator class for the treatment plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. [62-699.311(10), (6) and (1)]
3. An operator meeting the lead/chief operator class for the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. [62-699.311(1)]

B. Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

1. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5)]
2. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1)]

C. Recordkeeping Requirements

1. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
 - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
 - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the biosolids use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
 - e. A copy of the current permit;
 - f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
 - g. A copy of any required record drawings;
 - h. Copies of the licenses of the current certified operators;
 - i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and license number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities, including any preventive maintenance or repairs made or requested; results of tests performed and samples taken, unless documented on a laboratory sheet; and notation of any notification or reporting completed in accordance with Rule 62-602.650(3), F.A.C. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed; and
 - j. Records of biosolids quantities, treatment, monitoring, and hauling for at least five years.
[62-620.350, 62-602.650, 62-640.650(4)]

VI. SCHEDULES

1. The following improvement actions shall be completed according to the following schedule:

Improvement Action	Completion Date
1. Submit reports to the Department detailing the Inflow and Infiltration program efforts.	Every two years from the effective date of this permit.

[62-620.320(6)]

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

2. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
 - a. The permittee has applied for renewal of this permit at least 180 days before the expiration date of this permit using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
 - b. The permittee has made complete the application for renewal of this permit before the permit expiration date.

Please note, effluent testing shall be conducted for each outfall in accordance with the instructions provided in Sections 3.A.12., 13., and 14. of the application form. A minimum of three samples shall be taken within four and one-half years prior to the date of the permit application and must be representative of the seasonal variation in the discharge from each outfall. *[62-620.335(1) - (4)]*

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility is not required to have a pretreatment program at this time. *[62-625.500]*

VIII. OTHER SPECIFIC CONDITIONS

1. The permittee shall comply with all conditions and requirements for reuse contained in their consumptive use permit issued by the Water Management District, if such requirements are consistent with Department rules. *[62-610.800(10)]*
2. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of biosolids shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(5) and 62-640.400(6)]*
3. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C. *[62-604.130(3)]*
4. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
5. The operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
 - a. Which may cause fire or explosion hazards; or
 - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
 - c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
 - d. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40°C or otherwise inhibiting treatment; or
 - e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems.

[62-604.130(5)]

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

6. The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.400(2)(b)]*
7. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-701.300(1)(a)]*
8. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. *[62-620.310(4)]*
9. The permittee shall provide verbal notice to the Department's Central District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, wastewater Biosolids (sludges), or reclaimed water. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*
10. The permittee shall provide notice to the Department of the following:
 - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C., if it were directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.Notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility.

[62-620.625(2)]

IX. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1)]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications, or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2)]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. *[62-620.610(3)]*
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4)]*

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or biosolids use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-620.610(5)]*
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. *[62-620.610(6)]*
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620.610(7)]*
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620.610(8)]*
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
 - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
 - b. Have access to and copy any records that shall be kept under the conditions of this permit;
 - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
 - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.*[62-620.610(9)]*
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10)]*
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17)]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160, 62-600, and 62-610, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
 - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
 - e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
 - f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.

[62-620.610(18)]

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. *[62-620.610(19)]*
20. The permittee shall report to the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. For noncompliance events related to sanitary sewer overflows or bypass events, these reports must include the data described above (with the exception of time of discovery) as well as the type of event (sanitary sewer overflows or bypass events), type of sewer overflow (e.g., manhole), discharge volumes by the treatment works treating domestic sewage, types of human health and environmental impacts of the sewer overflow event, and whether the noncompliance was related to wet weather. The written submission may be provided electronically using the Department's Business Portal at <http://www.fldepportal.com/go/> (via "Submit" followed by "Report" or "Registration/Notification"). Notice required under paragraph (d) may be provided together with the written submission using the Business Portal. All noncompliance events related to sanitary sewer overflows or bypass events submitted after December 21, 2020 shall be submitted electronically.
 - a. The following shall be included as information which must be reported within 24 hours under this condition:
 1. Any unanticipated bypass which causes any reclaimed water or the effluent to exceed any permit limitation or results in an unpermitted discharge,
 2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 4. Any unauthorized discharge to surface or ground waters.
 - b. Oral reports as required by this subsection shall be provided as follows:
 1. For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling the STATE WATCH OFFICE TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Watch Office:
 - a. Name, address, and telephone number of person reporting;
 - b. Name, address, and telephone number of permittee or responsible person for the discharge;
 - c. Date and time of the discharge and status of discharge (ongoing or ceased);
 - d. Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - e. Estimated amount of the discharge;
 - f. Location or address of the discharge;
 - g. Source and cause of the discharge;
 - h. Whether the discharge was contained on-site, and cleanup actions taken to date;
 - i. Description of area affected by the discharge, including name of water body affected, if any; and
 - j. Other persons or agencies contacted.
 2. Oral reports, not otherwise required to be provided pursuant to subparagraph (b)1. above, shall be provided to the Department within 24 hours from the time the permittee becomes aware of the circumstances.
 - c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

noncompliance did not endanger health or the environment, the Department shall waive the written report.

- d. In accordance with Section 403.077, F.S., unauthorized releases or spills reportable to the State Watch Office pursuant to subparagraph (b)1. above shall also be reported to the Department within 24 hours from the time the permittee becomes aware of the discharge. The permittee shall provide to the Department information reported to the State Watch Office. Notice of unauthorized releases or spills may be provided to the Department through the Department's Public Notice of Pollution web page at <https://floridadep.gov/pollutionnotice>.

1. If, after providing notice pursuant to paragraph (d) above, the permittee determines that a reportable unauthorized release or spill did not occur or that an amendment to the notice is warranted, the permittee may submit additional notice to the Department documenting such determination.
2. If, after providing notice pursuant to paragraph (d) above, the permittee discovers that a reportable unauthorized release or spill has migrated outside the property boundaries of the installation, the permittee must provide an additional notice to the Department that the release has migrated outside the property boundaries within 24 hours after its discovery of the migration outside of the property boundaries.

[62-620.610(20)] [62-620.100(3)] [403.077, F.S.]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX.17., IX.18., or IX.19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20. of this permit. [62-620.610(21)]

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Permit Condition IX.22.c. of this permit.
- c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX.22.b.(1) through (3) of this permit.
- e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX.22.b. through d. of this permit.

[62-620.610(22)]

23. Upset Provisions.

PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
 - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
 - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in Permit Condition IX.20. of this permit; and
 - (4) The permittee complied with any remedial measures required under Permit Condition IX.5. of this permit.
- c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.

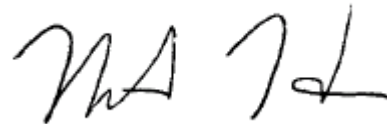
PERMITTEE: Brevard County Utilities Services Department
FACILITY: Barefoot Bay Advanced WWTF

PERMIT NUMBER: FL0042293 (Minor)
EXPIRATION DATE: October 15, 2024

- d. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.
[62-620.610(23)]

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION



Nathan Hess
Program Administrator
Permitting and Waste Cleanup Program

PERMIT ISSUANCE DATE:
October 16, 2019

Attachment(s): DRAFT
Discharge Monitoring Report
"Pathogen Monitoring" Form
Maps of Reuse Service Area and Discharge Location

DEPARTMENT OF ENVIRONMENTAL PROTECTION DRAFT DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <http://www.fldeportal.com/go/>

PERMITTEE NAME: Brevard County Utilities Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940-6605
 FACILITY: Barefoot Bay Advanced WWTF
 LOCATION: 7773 Dottie Drive
 Barefoot Bay, FL 32976-7003

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0042293-011-DW1P
 LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: D-001
 MONITORING GROUP DESCRIPTION: Discharge to Surface Water
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

DMR Effective Date: **December 1, 2019**
 REPORT FREQUENCY: Monthly
 PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (To outfall)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement		0.188 (An. Avg.)	MGD						Continuous	Flow Totalizer
Flow (To outfall)	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement		Report (Mo. Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 1 Mon. Site No. EFD-1	Permit Requirement				10.0 (Max.)	7.5 (Max.Wk.Avg.)	6.25 (Mo. Avg.)	mg/L		Weekly	16-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFD-1	Permit Requirement				10.0 (Max.)	7.5 (Max.Wk.Avg.)	6.25 (Mo. Avg.)	mg/L		Weekly	16-hr FPC
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Y Mon. Site No. EFA-2	Permit Requirement					14 (An. Avg.)		#/100mL		Weekly	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-2	Permit Requirement					14 (Mo. Med.)	86 (Max.)	#/100mL		Weekly	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: D-001

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFD-2	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		5 Days/Week	Grab
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 A Mon. Site No. EFA-2	Permit Requirement				1.0 (Min.)			mg/L		5 Days/Week	Grab
Chlorine, Total Residual (For Dechlorination)	Sample Measurement										
PARM Code 50060 1 Mon. Site No. EFD-2	Permit Requirement						0.01 (Max.)	mg/L		Weekly	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFD-1	Permit Requirement				6.0 (Max.)	4.5 (Max.Wk.Avg.)	3.75 (Mo. Avg.)	mg/L		Weekly	16-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 P Mon. Site No. EFD-1	Permit Requirement	Report (Mo. Total)	476.0 (An. Total)	lb/yr						Monthly	16-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFD-1	Permit Requirement				2.0 (Max.)	1.5 (Max.Wk.Avg.)	1.25 (Mo. Avg.)	mg/L		Weekly	16-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 P Mon. Site No. EFD-1	Permit Requirement	Report (Mo. Total)	78.0 (An. Total)	lb/yr						Monthly	16-hr FPC
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 1 Mon. Site No. EFD-2	Permit Requirement				5.0 (Min.)			mg/L		5 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 1 Mon. Site No. EFD-2	Permit Requirement					14 (An. Avg.)		#/100mL		Monthly	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 P Mon. Site No. EFD-2	Permit Requirement				86 (Max.)	43 (90th %)	14 (Mo. Med.)	#/100mL		Monthly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: D-001

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Routine)	Sample Measurement				100 (Min.)			percent		Annually	4 grabs/24 hr.
PARM Code TAN3B P Mon. Site No. EFD-1	Permit Requirement										
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Additional)	Sample Measurement				100 (Min.)			percent		As needed	As required by the permit
PARM Code TAN3B Q Mon. Site No. EFD-1	Permit Requirement										
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Additional)	Sample Measurement				100 (Min.)			percent		As needed	As required by the permit
PARM Code TAN3B R Mon. Site No. EFD-1	Permit Requirement										
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Routine)	Sample Measurement				100 (Min.)			percent		Annually	4 grabs/24 hr.
PARM Code TAN6H P Mon. Site No. EFD-1	Permit Requirement										
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement				100 (Min.)			percent		As needed	As required by the permit
PARM Code TAN6H Q Mon. Site No. EFD-1	Permit Requirement										
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement				100 (Min.)			percent		As needed	As required by the permit
PARM Code TAN6H R Mon. Site No. EFD-1	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <http://www.fldeportal.com/go/>

PERMITTEE NAME: Brevard County Utilities Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940-6605
 FACILITY: Barefoot Bay Advanced WWTF
 LOCATION: 7773 Dottie Drive
 Barefoot Bay, FL 32976-7003

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0042293-011-DW1P
 Effective Date of DMR: December 1, 2019
 LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: R-001
 MONITORING GROUP DESCRIPTION: Public Access Reuse System, with influent
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Monthly
 PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Public access reuse)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-2	Permit Requirement		1.041 (An. Avg.)	MGD						Continuous	Flow Totalizer
Flow (Public access reuse)	Sample Measurement										
PARM Code 50050 I Mon. Site No. FLW-2	Permit Requirement		Report (Mo. Avg.)	MGD						Continuous	Flow Totalizer
Flow (Golf course)	Sample Measurement										
PARM Code 50050 P Mon. Site No. FLW-3	Permit Requirement		Report (An. Avg.)	MGD						Continuous	Flow Totalizer
Flow (Sprayfield)	Sample Measurement										
PARM Code 50050 Q Mon. Site No. FLW-4	Permit Requirement		0.130 (An. Avg.)	MGD						Continuous	Flow Totalizer
Flow (Infiltration impoundment)	Sample Measurement										
PARM Code 50050 R Mon. Site No. FLW-5	Permit Requirement		0.787 (An. Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement					20.0 (An. Avg.)		mg/L		Weekly	16-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: R-001

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement				60.0 (Max.)	45.0 (Max.Wk.Avg.)	30.0 (Mo. Avg.)	mg/L		Weekly	16-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 B Mon. Site No. EFB-1	Permit Requirement						5.0 (Max.)	mg/L		4 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-2	Permit Requirement						25 (Max.)	#/100mL		4 Days/Week	Grab
Coliform, Fecal, % less than detection	Sample Measurement										
PARM Code 51005 A Mon. Site No. EFA-2	Permit Requirement				75 (Min.Mo.Total)			percent		4 Days/Week	Calculated
pH	Sample Measurement										
PARM Code 00400 A Mon. Site No. EFA-2	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		5 Days/Week	Grab
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 A Mon. Site No. EFA-2	Permit Requirement				1.0 (Min.)			mg/L		Continuous	Meter
Turbidity	Sample Measurement										
PARM Code 00070 B Mon. Site No. EFB-1	Permit Requirement						Report (Max.)	NTU		Continuous	Meter
Nitrogen, Total	Sample Measurement										
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement						Report (Max.)	mg/L		Weekly	16-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 A Mon. Site No. EFA-1	Permit Requirement						Report (Max.)	mg/L		Weekly	16-hr FPC
	Sample Measurement										
	Permit Requirement										

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: R-001

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Total through plant)	Sample Measurement										
PARM Code 50050 G Mon. Site No. INF-1	Permit Requirement		0.90 (An. Avg.)	MGD						Continuous	Flow Totalizer
Flow (Total through plant)	Sample Measurement										
PARM Code 50050 P Mon. Site No. INF-1	Permit Requirement	Report (Qt. Avg.)	Report (Mo. Avg.)	MGD						Continuous	Flow Totalizer
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement					Report (Mo. Avg.)	percent			Monthly	Calculated
PARM Code 00180 G Mon. Site No. INF-1	Permit Requirement										
BOD, Carbonaceous 5 day, 20C (Influent)	Sample Measurement										
PARM Code 80082 Y Mon. Site No. INF-2	Permit Requirement					Report (An. Avg.)	mg/L			Weekly	16-hr FPC
BOD, Carbonaceous 5 day, 20C (Influent)	Sample Measurement										
PARM Code 80082 G Mon. Site No. INF-2	Permit Requirement					Report (Max.)	mg/L			Weekly	16-hr FPC
Solids, Total Suspended (Influent)	Sample Measurement										
PARM Code 00530 Y Mon. Site No. INF-2	Permit Requirement					Report (An. Avg.)	mg/L			Weekly	16-hr FPC
Solids, Total Suspended (Influent)	Sample Measurement										
PARM Code 00530 G Mon. Site No. INF-2	Permit Requirement					Report (Max.)	mg/L			Weekly	16-hr FPC
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <http://www.fldeportal.com/go/>

PERMITTEE NAME: Brevard County Utilities Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940-6605
 FACILITY: Barefoot Bay Advanced WWTF
 LOCATION: 7773 Dottie Drive
 Barefoot Bay, FL 32976-7003

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0042293-011-DW1P

LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: RMP-Q
 MONITORING GROUP DESCRIPTION: Biosolids Quantity
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Monthly
 PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Biosolids Quantity (Transferred)	Sample Measurement										
PARM Code B0007 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo. Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Landfilled)	Sample Measurement										
PARM Code B0008 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo. Total)	dry tons						Monthly	Calculated
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <http://www.fldeportal.com/go/>

PERMITTEE NAME: Brevard County Utilities Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940-6605
 FACILITY: Barefoot Bay Advanced WWTF
 LOCATION: 7773 Dottie Drive
 Barefoot Bay, FL 32976-7003

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0042293-011-DW1P

LIMIT:
 CLASS SIZE:
 MONITORING GROUP NUMBER:
 MONITORING GROUP DESCRIPTION:
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING NOT REQUIRED:* ☐
 MONITORING PERIOD From: _____ To: _____

Final
 MI
 RWS-A
 Annual Reclaimed Water or Effluent Analysis
 REPORT FREQUENCY: Annually
 PROGRAM: Domestic

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable (GWS = 6)**	Sample Measurement							
PARM Code 01268 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Arsenic, Total Recoverable (GWS = 10)	Sample Measurement							
PARM Code 00978 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Barium, Total Recoverable (GWS = 2,000)	Sample Measurement							
PARM Code 01009 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Beryllium, Total Recoverable (GWS = 4)	Sample Measurement							
PARM Code 00998 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Cadmium, Total Recoverable (GWS = 5)	Sample Measurement							
PARM Code 01113 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Chromium, Total Recoverable (GWS =100)	Sample Measurement							
PARM Code 01118 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC

*THE "MONITORING NOT REQUIRED" CHECKBOX SHOULD BE SELECTED WHEN A CERTIFICATION STATEMENT IN ACCORDANCE WITH SUBSECTION 62-600.680(2), F.A.C., IS SUBMITTED WITH THIS DMR. SEE CERTIFICATION STATEMENT IN COMMENTS SECTION BELOW.

**GROUND WATER STANDARD (GWS) FOR REFERENCE AND REVIEW ONLY.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

☐ NO NEW NON-DOMESTIC WASTEWATER DISCHARGERS HAVE BEEN ADDED TO THE COLLECTION SYSTEM SINCE THE LAST RECLAIMED WATER OR EFFLUENT ANALYSIS WAS CONDUCTED.
 SIGN AND DATE:

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: RWS-A

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Cyanide, Free (amen. to chlorination)(GWS = 200)	Sample Measurement										
PARM Code 00722 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Fluoride, Total (as F) (GWS = 4.0/2.0)	Sample Measurement										
PARM Code 00951 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Lead, Total Recoverable (GWS = 15)	Sample Measurement										
PARM Code 01114 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Mercury, Total Recoverable (GWS = 2)	Sample Measurement										
PARM Code 71901 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Nickel, Total Recoverable (GWS = 100)	Sample Measurement										
PARM Code 01074 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Nitrogen, Nitrate, Total (as N) (GWS = 10)	Sample Measurement										
PARM Code 00620 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Nitrogen, Nitrite, Total (as N) (GWS = 1)	Sample Measurement										
PARM Code 00615 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Nitrite plus Nitrate, Total 1 det. (as N)(GWS = 10)	Sample Measurement										
PARM Code 00630 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Selenium, Total Recoverable (GWS = 50)	Sample Measurement										
PARM Code 00981 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Sodium, Total Recoverable (GWS = 160)	Sample Measurement										
PARM Code 00923 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: RWS-A

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Thallium, Total Recoverable (GWS = 2)	Sample Measurement										
PARM Code 00982 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
1,1-dichloroethylene (GWS = 7)	Sample Measurement										
PARM Code 34501 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
1,1,1-trichloroethane (GWS = 200)	Sample Measurement										
PARM Code 34506 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
1,1,2-trichloroethane (GWS = 5)	Sample Measurement										
PARM Code 34511 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
1,2-dichloroethane (GWS = 3)	Sample Measurement										
PARM Code 32103 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
1,2-dichloropropane (GWS = 5)	Sample Measurement										
PARM Code 34541 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
1,2,4-trichlorobenzene (GWS = 70)	Sample Measurement										
PARM Code 34551 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Benzene (GWS = 1)	Sample Measurement										
PARM Code 34030 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
Carbon tetrachloride (GWS = 3)	Sample Measurement										
PARM Code 32102 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
Cis-1,2-dichloroethene (GWS = 70)	Sample Measurement										
PARM Code 81686 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: RWS-A

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dichloromethane (methylene chloride)(GWS = 5)	Sample Measurement										
PARM Code 03821 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Ethylbenzene (GWS = 700)	Sample Measurement										
PARM Code 34371 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Monochlorobenzene (GWS = 100)	Sample Measurement										
PARM Code 34031 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-dichlorobenzene (GWS = 600)	Sample Measurement										
PARM Code 34536 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,4-dichlorobenzene (GWS = 75)	Sample Measurement										
PARM Code 34571 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Styrene, Total (GWS = 100)	Sample Measurement										
PARM Code 77128 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Tetrachloroethylene (GWS = 3)	Sample Measurement										
PARM Code 34475 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Toluene (GWS = 1,000)	Sample Measurement										
PARM Code 34010 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-trans-dichloroethylene (GWS = 100)	Sample Measurement										
PARM Code 34546 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Trichloroethylene (GWS = 3)	Sample Measurement										
PARM Code 39180 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: RWS-A

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Vinyl chloride (GWS = 1)	Sample Measurement										
PARM Code 39175 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Xylenes (GWS = 10,000)	Sample Measurement										
PARM Code 81551 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
2,3,7,8-tetrachlorodibenzo-p-dioxin(GWS = 3x10 ⁻⁵)	Sample Measurement										
PARM Code 34675 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dichlorophenoxyacetic acid (GWS = 70)	Sample Measurement										
PARM Code 39730 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Silvex (GWS = 50)	Sample Measurement										
PARM Code 39760 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Alachlor (GWS = 2)	Sample Measurement										
PARM Code 39161 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Atrazine (GWS = 3)	Sample Measurement										
PARM Code 39033 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(a)pyrene (GWS = 0.2)	Sample Measurement										
PARM Code 34247 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Carbofuran (GWS = 40)	Sample Measurement										
PARM Code 81405 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Chlordane (tech mix. and metabolites)(GWS = 2)	Sample Measurement										
PARM Code 39350 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: RWS-A

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dalapon (GWS = 200)	Sample Measurement										
PARM Code 38432 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Bis(2-ethylhexyl)adipate (GWS = 400)	Sample Measurement										
PARM Code 77903 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Bis (2-ethylhexyl) phthalate (GWS = 6)	Sample Measurement										
PARM Code 39100 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Dibromochloropropane (DBCP) (GWS = 0.2)	Sample Measurement										
PARM Code 82625 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
Dinoseb (GWS = 7)	Sample Measurement										
PARM Code 30191 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Diquat (GWS = 20)	Sample Measurement										
PARM Code 04443 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Endothall (GWS = 100)	Sample Measurement										
PARM Code 38926 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Endrin (GWS = 2)	Sample Measurement										
PARM Code 39390 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Ethylene dibromide (1,2-dibromoethane)(GWS = 0.02)	Sample Measurement										
PARM Code 77651 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
Glyphosate (GWS = 0.7)	Sample Measurement										
PARM Code 79743 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: RWS-A

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Heptachlor (GWS = 0.4)	Sample Measurement										
PARM Code 39410 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Heptachlor epoxide (GWS = 0.2)	Sample Measurement										
PARM Code 39420 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorobenzene (GWS = 1)	Sample Measurement										
PARM Code 39700 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorocyclopentadiene (GWS = 50)	Sample Measurement										
PARM Code 34386 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Gamma BHC (Lindane) (GWS = 0.2)	Sample Measurement										
PARM Code 39782 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Methoxychlor (GWS = 40)	Sample Measurement										
PARM Code 39480 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Oxamyl (vydate) (GWS = 200)	Sample Measurement										
PARM Code 38865 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Pentachlorophenol (GWS = 1)	Sample Measurement										
PARM Code 39032 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Picloram (GWS = 500)	Sample Measurement										
PARM Code 39720 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Polychlorinated Biphenyls (PCBs)(GWS = 0.5)	Sample Measurement										
PARM Code 39516 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: RWS-A

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Simazine (GWS = 4)	Sample Measurement										
PARM Code 39055 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Toxaphene (GWS = 3)	Sample Measurement										
PARM Code 39400 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Trihalomethane, Total by summation(GWS = 0.080)	Sample Measurement										
PARM Code 82080 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	mg/L		Annually	Grab
Radium 226 + Radium 228, Total (GWS = 5)	Sample Measurement										
PARM Code 11503 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	pCi/L		Annually	24-hr FPC
Alpha, Gross Particle Activity (GWS = 15)	Sample Measurement										
PARM Code 80045 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	pCi/L		Annually	24-hr FPC
Aluminum, Total Recoverable (GWS = 0.2)	Sample Measurement										
PARM Code 01104 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC
Chloride (as Cl) (GWS = 250)	Sample Measurement										
PARM Code 00940 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC
Iron, Total Recoverable (GWS = 0.3)	Sample Measurement										
PARM Code 00980 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC
Copper, Total Recoverable (GWS = 1,000)	Sample Measurement										
PARM Code 01119 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Manganese, Total Recoverable (GWS = 50)	Sample Measurement										
PARM Code 11123 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Barefoot Bay Advanced WWTF

MONITORING GROUP NUMBER: RWS-A

PERMIT NUMBER: FL0042293-011-DW1P

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Silver, Total Recoverable (GWS = 100)	Sample Measurement										
PARM Code 01079 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Sulfate, Total (GWS = 250)	Sample Measurement										
PARM Code 00945 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC
Zinc, Total Recoverable (GWS = 5,000)	Sample Measurement										
PARM Code 01094 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
pH (GWS = 6.5-8.5)	Sample Measurement										
PARM Code 00400 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	s.u.		Annually	Grab
Solids, Total Dissolved (TDS) (GWS = 500)	Sample Measurement										
PARM Code 70295 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC
Foaming Agents (GWS = 0.5)	Sample Measurement										
PARM Code 01288 P Mon. Site No. RWS-A	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FL0042293-011-DW1P
From: _____ To: _____

Facility: Barefoot Bay Advanced WWTF

	BOD, Carbonaceous 5 day, 20C mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	pH s.u.	Solids, Total Suspended mg/L	Turbidity NTU	BOD, Carbonaceous 5 day, 20C mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) lb/yr
Code	80082	00600	00665	50060	74055	00400	00530	00070	80082	00600	00665
Mon. Site	EFA-1	EFA-1	EFA-1	EFA-2	EFA-2	EFA-2	EFB-1	EFB-1	EFD-1	EFD-1	EFD-1
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: _____ Certificate No: _____ Name: _____

Evening Shift Operator Class: _____ Certificate No: _____ Name: _____

Night Shift Operator Class: _____ Certificate No: _____ Name: _____

Lead Operator Class: _____ Certificate No: _____ Name: _____

DAILY SAMPLE RESULTS - PART B

Permit Number: FL0042293-011-DW1P Facility: Barefoot Bay Advanced WWTF
 Monitoring Period From: _____ To: _____

	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	Chlorine, Total Residual (For Dechlorination) mg/L	Coliform, Fecal #/100mL	Oxygen, Dissolved (DO) mg/L	pH s.u.	Flow (To outfall) MGD	Flow (Public access reuse) MGD	Flow (Golf course) MGD	Flow (Sprayfield) MGD	Flow (Infiltration impoundment) MGD
Code	00665	00530	50060	74055	00300	00400	50050	50050	50050	50050	50050
Mon. Site	EFD-1	EFD-1	EFD-2	EFD-2	EFD-2	EFD-2	FLW-1	FLW-2	FLW-3	FLW-4	FLW-5
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator	Class: _____	Certificate No: _____	Name: _____
Evening Shift Operator	Class: _____	Certificate No: _____	Name: _____
Night Shift Operator	Class: _____	Certificate No: _____	Name: _____
Lead Operator	Class: _____	Certificate No: _____	Name: _____

DAILY SAMPLE RESULTS - PART B

Permit Number: FL0042293-011-DW1P Facility: Barefoot Bay Advanced WWTF
Monitoring Period From: To:

	Flow (Total through plant) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L							
Code	50050	80082	00530							
Mon. Site	INF-1	INF-2	INF-2							
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total										
Mo. Avg.										

PLANT STAFFING:

Day Shift Operator Class: Certificate No: Name:
Evening Shift Operator Class: Certificate No: Name:
Night Shift Operator Class: Certificate No: Name:
Lead Operator Class: Certificate No: Name:

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Barefoot Bay Advanced WWTF
 Permit Number: FL0042293-011-DW1P
 County: Brevard

Monitoring Well ID: MWB-3
 Well Type: Background
 Description: BAREFOOT
 BAY/MW-3
 BACKGROUND, 2767
 and 3005A13766

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Barefoot Bay Advanced WWTF
 Permit Number: FL0042293-011-DW1P
 County: Brevard

Monitoring Well ID: MWC-2
 Well Type: Compliance
 Description: BAREFOOT
 BAY/MW-2 DEEP
 COMPLIANCE, 2765
 and 3005A13768

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5 - 8.5	s.u.	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Barefoot Bay Advanced WWTF
 Permit Number: FL0042293-011-DW1P
 County: Brevard

Monitoring Well ID: MWC-4
 Well Type: Compliance
 Description: Compliance well at Trench Site (previously 320-acre spray site)

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5 - 8.5	s.u.	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Barefoot Bay Advanced WWTF
 Permit Number: FL0042293-011-DW1P
 County: Brevard

Monitoring Well ID: MWC-5
 Well Type: Compliance
 Description: Compliance Well at Trench Site (previously 320-acre spray site)

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5 - 8.5	s.u.	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Barefoot Bay Advanced WWTF
 Permit Number: FL0042293-011-DW1P
 County: Brevard

Monitoring Well ID: MWC-6
 Well Type: Compliance
 Description: Compliance Well at Trench Site (previously 320-acre spray site)

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5 - 8.5	s.u.	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Barefoot Bay Advanced WWTF
 Permit Number: FL0042293-011-DW1P
 County: Brevard

Monitoring Well ID: MWI-1
 Well Type: Intermediate
 Description: BAREFOOT
 BAY/MW-1
 INTERMEDIATE,
 2766 and 3005A13767

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. Facilities who submit their DMR(s) electronically through eDMR do not need to submit a hardcopy DMR. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used, unless indicated otherwise in the permit or on the DMR:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units. Data qualifier codes are not to be reported on Part A.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Data qualifier codes are not to be reported on Part D.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.



Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

PATHOGEN MONITORING

Part I - Instructions

1. Completion of this report is required by Rules 62-610.463(4), 62-610.472(3)(d), 62-610.525(13), 62-610.568(11), 62-610.568(12), and 62-610.652(6)(c), F.A.C., for all domestic wastewater facilities that provide reclaimed water to certain types of reuse activities. The schedule for sampling and reporting shall be in accordance with the permit for the facility. If a schedule for sampling or re-sampling is not included in the permit, the following schedule shall apply:
 - a. Routine Sampling:

If sampling is required once every two years, this report shall be submitted on or before November 28 of each even numbered year (2006, 2008, 2010, etc.).

If sampling is required once every five years, this report shall be submitted with the application for permit renewal.

If sampling is required quarterly, this report shall be submitted on or before February 28, May 28, August 28, and November 28 of each year.
 - b. Subsequent Re-Sampling:

If subsequent re-sampling is required by Item 9 in Part I of this form, this form shall be submitted for the subsequent re-sampling(s) in accordance with the schedule established in Item 9 in Part I of this form.
2. Submit one copy of this form and a copy of the laboratory's final report for the analysis of *Giardia* and *Cryptosporidium* to each of the following two addresses:
 - a. The appropriate DEP district office (attention Domestic Wastewater Program). Addresses for the DEP district offices are available at www.dep.state.fl.us/secretary/dist/default.htm.
 - b. DEP Water Reuse Coordinator
Mail Station 3540
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
3. Please type or print legibly.
4. In Part II, Items 7 through 12 need to be completed only if this is the first submittal of this report, if the information in Items 7 through 12 has changed since the last submittal, or if the information in any of these questions has not been previously provided.
5. Part III is to be used when sampling for *Giardia* and *Cryptosporidium* at the treatment plant. Part III is also to be used when sampling for *Giardia* and *Cryptosporidium* in a supplemental water supply (see Rule 62-610.472, F.A.C.).

6. For each sample, record the sample volume obtained in liters.
7. For *Giardia*, record the concentrations in cysts per 100 liters. For *Cryptosporidium*, record the concentrations in oocysts per 100 liters. Sufficient sample volumes shall be collected and processed such that the detection limit is no greater than 5 cysts or oocysts per 100 liters. Detection levels on the order of 1 cyst or oocyst per 100 liters are recommended. If an observation is less than the detection limit, make an entry in the form "<2" (where 2 per 100 liters is the detection limit in this example). The actual detection limit will be dictated by the volumes of sample obtained, filtered, and processed. Do NOT record nondetectable values as zero.
8. EPA Method 1623 or other approved methods for reclaimed water or nonpotable waters, adjusted appropriately to accommodate the detection limit requirements, shall be used. Methods previously allowed for EPA's Information Collection Rule (ICR) shall not be used. The full requirements of the approved method, including quality assurance and quality control, are to be met. Quality assurance and sampling requirements in Chapter 62-160, F.A.C., shall apply.

Two concentrations of *Giardia* and *Cryptosporidium* shall be recorded on Part III of this form:

- a. Total cysts and oocysts shall be enumerated using EPA Method 1623 or other approved methods.
 - b. Potentially viable cysts and oocysts shall be enumerated using the DAPI staining technique contained in EPA Method 1623 or similar enumeration techniques included in other approved methods. Cysts and oocysts that are stained DAPI positive or show internal structure by D.I.C. shall be considered as being potentially viable. If the laboratory reports separate values for DAPI positive and for cysts or oocysts having internal structure, the larger of the two concentrations will be reported as being potentially viable.
9. If the number of potentially viable cysts of *Giardia* reported exceeds 5 per 100 liters, a subsequent sample shall be taken and analyzed using EPA Method 1623 or other approved methods and reported using this form. If the number of potentially viable oocysts of *Cryptosporidium* reported exceeds 22 per 100 liters, a subsequent sample shall be taken and analyzed using EPA Method 1623 or other approved methods and reported using this form. This subsequent sample shall be collected within 90 days of the date the initial sample was taken, analyzed for both *Giardia* and *Cryptosporidium*, and the results of the subsequent analysis shall be submitted to DEP using this form within 60 days of sample collection.
 10. Rule 62-160.300, F.A.C., requires that all laboratories generating environmental data for submission to the DEP shall hold certification from the Department of Health's (DOH) Environmental Laboratory Certification Program (ELCP). Certification by the ELCP for analysis of *Giardia* and *Cryptosporidium* using EPA Method 1623 for non-potable waters is required. If other approved methods are used, certification by the ELCP is required for the specific method and for the test matrix. Lists of certified laboratories can be found at www.dep.state.fl.us/labs/cgi-bin/aams/index.asp
 11. Samples shall be collected during peak flow periods (normally between the hours of 8:00 a.m. and 6:00 p.m.).
 12. Recognizing that concentrations of these pathogens generally increase during the late summer through fall period, it is recommended that utilities sample during the August through October time period.
 13. If the wastewater treatment facility uses chlorination for disinfection, samples obtained for analysis of *Giardia* and *Cryptosporidium* shall be dechlorinated.
 14. When sampling at the treatment facility, obtain a grab sample for total suspended solids (TSS) that is representative of the water leaving the filters at the treatment facility during the period when pathogen

samples are being obtained. In addition, record the highest turbidity and the lowest total chlorine residual observed during the period when pathogen samples are being obtained.

15. When sampling a supplemental water supply, obtain a grab sample for total suspended solids (TSS) that is representative of the surface water or treated stormwater as it is added to the reclaimed water system. This TSS sample shall be taken during the period when pathogen samples are being obtained. In addition, record the lowest total chlorine residual observed during the period when pathogen samples are being obtained.

Part II - General Information

1. DEP wastewater facility identification number: **FL0042293**

Wastewater facility name: Barefoot Bay Advanced WWTF

Permittee name: Brevard County Util Serv Department

2. Person completing this form:

Name: _____

Telephone: (_____) _____

Email address: _____

3. Sampling and analysis:

Date samples were taken: _____

Organization collecting the samples: _____

Was the sample dechlorinated in the field? ☐ Yes ☐ No

Was the sample refrigerated or kept on ice during shipment to the laboratory? ☐ Yes ☐ No

Date samples delivered to laboratory: _____

Date analytical work was done: _____

Laboratory doing the analysis: _____

Laboratory's DOH Identification Number: _____

Approved method used:

☐ EPA Method 1623

☐ Other approved method: _____

Contact person at the laboratory: _____

Email address of the lab contact person: _____

4. Is this the first time that this form has been submitted for the facility?

☐ Yes [Please complete Questions 7 through 16.]

☐ No [Proceed to Question 5.]

5. Is this a report of "subsequent re-sampling" required by Item 9 in Part I of this form based on concentrations of potentially viable cysts or oocysts in a previous sampling?

☐ No [Proceed to Question 6.]

☐ Yes [Attach a description of any facility or operational changes made to the treatment facilities since the time of the previous sampling and proceed to Question 6.]

6. Has the information requested in Questions 7 through 12 (below) changed since the last submittal of this form?

☐ Yes [Please complete Questions 7 through 16.]

☐ No [Proceed to Questions 13 through 16 of Part II of this form. You do not need to complete Questions 7 through 12.]

7. Type of secondary treatment system:

☐ Conventional activated sludge

☐ Extended aeration

☐ Contact stabilization

☐ Biological nutrient removal (such as Bardenpho)

☐ Other: _____

8. Does this treatment facility nitrify (convert ammonia nitrogen to nitrate)? ☐ Yes ☐ No

9. Filter type:

☐ Deep bed, single media

☐ Deep bed, multiple media

☐ Shallow bed, automatic backwash

☐ Upflow (including Dynasand)

☐ Slow rate sand filter

☐ Diatomaceous earth filter

☐ Fabric filter

☐ Cartridge filter

☐ Membranes (microfiltration, ultrafiltration, membrane bioreactor, reverse osmosis)

☐ Other: _____

10. Filter Media (complete for each type of media provided):

Top layer of media: Media type: _____

Effective size: _____ mm

Uniformity coefficient: _____

Bed depth: _____ inches

Middle layer of media: Media type: _____
Effective size: _____ mm
Uniformity coefficient: _____
Bed depth: _____ inches

Bottom layer of media: Media type: _____
Effective size: _____ mm
Uniformity coefficient: _____
Bed depth: _____ inches

11. Filter backwash water:

- ☐ Backwash water is returned to the headworks of the treatment plant.
- ☐ Backwash water is returned to the aeration basin.
- ☐ Other. Please describe: _____

12. Disinfection system:

- ☐ Chlorination, gas ☐ Hypochlorite
- ☐ Chlorine dioxide ☐ Chlorination, other _____
- ☐ Ultraviolet ☐ Ozone
- ☐ Other: _____

13. Is chlorine added before the filters? ☐ No ☐ Yes Dose: _____ mg/L

14. During the period that samples were taken, did you add a coagulant, coagulant aid, polyelectrolyte, or other chemical to enhance filtration?

- ☐ No
- ☐ Yes. Please list the chemicals being added and their dose.

Chemical 1 - Name: _____ Dose: _____ mg/L

Chemical 2 - Name: _____ Dose: _____ mg/L

Chemical 3 - Name: _____ Dose: _____ mg/L

15. Wastewater treatment plant permitted capacity: _____ MGD

16. Wastewater flow being treated at the time samples were collected: _____ MGD

PART III - PATHOGEN MONITORING REPORT

FACILITY ID: FL0042293

FACILITY NAME: Barefoot Bay Advanced WWTF

FACILITY ADDRESS: 7773 Dottie Dr, Barefoot Bay, FL 32976-7003

PERMITTEE NAME: Brevard County Util Serv Department

MAILING ADDRESS: 2725 Judge Fran Jamieson Way, BLDG. A-213, Melbourne, Florida 32940-6605

DATE OF SAMPLING: _____

Parameter	Quantity or Loading		Quality or Concentration	
	Sample Measurement	Units	Sample Measurement	Units
Treatment Plant: After Filter Monitoring Site No.				
Turbidity PARM Code 00070				NTU
TSS PARM Code 00530				mg/L
Treatment Plant: After Disinfection Monitoring Site No.				
Total Chlorine Residual PARM Code 50060				mg/L
Volume Collected PARM Code 71994		Liters		
<i>Giardia</i> , total count * PARM Code GIARD				total cysts/100 L
<i>Giardia</i> , potentially viable cysts * PARM Code VGIAR				potentially viable cysts/100 L
<i>Cryptosporidium</i> , total count * PARM Code CRYPT				total oocysts/100 L
<i>Cryptosporidium</i> , potentially viable oocysts * PARM Code VCRYP				potentially viable oocysts/100 L
Supplemental Water Supply (surface water or stormwater): After Treatment & Disinfection Monitoring Site No.				
TSS PARM Code 00530				mg/L
Total Chlorine Residual PARM Code 50060				mg/L
Volume Collected PARM Code 71994		Liters		
<i>Giardia</i> (total count) * PARM Code GIARD				total cysts/100 L
<i>Giardia</i> , potentially viable cysts * PARM Code VGIAR				potentially viable cysts/100 L
<i>Cryptosporidium</i> , total count * PARM Code CRYPT				total oocysts/100 L
<i>Cryptosporidium</i> , potentially viable oocysts * PARM Code VCRYP				potentially viable oocysts/100 L

* Data entries must be made for both total and potentially viable cysts and oocysts.

PART IV - CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name/Title of Principle Executive Officer or Authorized Agent (Type or Print)	Signature of Principle Executive Officer or Authorized Agent	Telephone No.	Date (YY/MM/DD)
Email Address			

**FACT SHEET
FOR
STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FL0042293-011 (Minor)

FACILITY NAME: BCUD-Barefoot Bay Advanced WRF

FACILITY LOCATION: 7773 Dottie Drive
Barefoot Bay, FL 32976-7003
Brevard County

RESPONSIBLE PARTY: Edward Fontanin, Director
edward.fontanin@brevardfl.gov

NAME OF PERMITTEE: Brevard County Utilities Services Department

PERMIT WRITER: Eugene Elliott and Dennise Judy.

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FL0042293-011-DW1P

Application Submittal Date: March 8, 2018

b. Type of Facility

Domestic Wastewater Treatment Plant

Ownership Type: County

SIC Code: 4952

c. Facility Capacity

Existing Permitted Capacity:	0.90 MGD Annual Average Daily Flow
Proposed Increase in Permitted Capacity:	0 MGD Annual Average Daily Flow
Proposed Total Permitted Capacity:	0.90 MGD Annual Average Daily Flow

d. Description of Wastewater Treatment

An existing 0.90 mgd annual average daily flow (AADF) permitted capacity advanced wastewater treatment facility. Major process components include influent screening, flow equalization, two anoxic/aeration basins, secondary clarification, chemical feed, filtration, chlorination, dechlorination, and aerobic digestion of biosolids. The facility also uses a Micro-C feed system.

e. Description of Effluent Disposal and Land Application Sites

Surface Water Discharge D-001: An existing 0.188 MGD annual average daily flow discharge to the Micco Ditch system (WBID 3121) thence to the North Prong of the Sebastian River, (WBID# 3128). The discharge is limited to 91 days per year. The outfall is approximately 2.5 feet in length and discharges at a depth of

approximately 5 feet. The point of discharge is located approximately at latitude 27°53' 18" N, longitude 80°32' 10" W. Both water bodies are Class III fresh waters.

Land Application R-001: An existing 1.041 MGD AADF permitted capacity slow-rate public access system (R-001), consisting of land application system R001 which includes an existing 0.13 MGD AADF permitted capacity 40-acre spray field, an existing 0.124 MGD AADF permitted capacity 50-Acre Barefoot Bay Golf Course, and the existing 0.787 MGD AADF infiltration impoundment (formerly permitted as a sprayfield) with 12 acres of exfiltration trenches and a total permitted area of 320 acres. Storage facilities include one (1) existing 1.8 mg on-site lined substandard water storage pond and one (1) existing 4.0 MG reclaimed water storage pond. Land application system R001 is located approximately at latitude 27° 52' 48" N, longitude 80° 32' 55" W.

2. SUMMARY OF SURFACE WATER DISCHARGE

Monitoring Group D-001: Class III Fresh Waters, North Prong of Sebastian River –

There were no discharges during this permitting cycle.

This facility does not have a new or expanded discharge to surface waters. The Department does not anticipate adverse impacts on threatened or endangered species as a result of permit issuance.

3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

This facility is authorized to discharge effluent from Outfall D-001 to the North Prong of Sebastian River based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (To outfall)	MGD	Max	0.188	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	6.25	Monthly Average	62-600.740(1)(b)2.b. FAC
		Max	7.5	Weekly Average	62-600.740(2)(b)3
		Max	10.0	Single Sample	62-600.740(1)(b)2.a., FAC
Solids, Total Suspended	mg/L	Max	6.25	Monthly Average	62-600.740(1)(b)2.b. FAC
		Max	7.5	Weekly Average	62-600.740(2)(b)3. FAC
		Max	10.0	Single Sample	62-600.740(2)(b)4. FAC
Coliform, Fecal	#/100mL	Max	14	Annual Average	62-600.440(7)(a)1. FAC
		Max	14	Monthly Median	62-600.440(7)(a)2. FAC
		Max	86	Single Sample	62-600.440(7)(a)4. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.430, 62-302.530(52) FAC
		Max	8.5	Single Sample	62-600.430, 62-302.530(52) FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	62-600.440(7)(c) FAC
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	62-600.440(2) & 62-302.530(19) FAC
Nitrogen, Total	mg/L	Max	3.75	Monthly Average	62-600.740(1)(b)2.b. FAC
		Max	4.5	Weekly Average	62-600.740(2)(b)3. FAC
		Max	6.0	Single Sample	62-600.740(2)(b)4. FAC
Nitrogen, Total	lb/yr	Max	476.0	Annual Total	62-600.420(1)(a) FAC
		Max	Report	Monthly Total	62-600.420(1)(a) FAC
Phosphorus, Total (as P)	mg/L	Max	1.25	Monthly Average	62-600.740(1)(b)2.b. FAC
		Max	1.5	Weekly Average	62-600.740(2)(b)3. FAC
		Max	2.0	Single Sample	62-600.740(1)(b)2.c. FAC
Phosphorus, Total (as P)	lb/yr	Max	78.0	Annual Total	62-600.420(1)(a) FAC
		Max	Report	Monthly Total	62-600.420(1)(a) FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	62-302.530(31) FAC
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	62-302.200(1), 62-302.500(1)(a)4 & 62-4.241(1)(a) FAC
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsi)	percent	Min	100	Single Sample	62-302.200(1), 62-302.500(1)(a)4 & 62-4.241(1)(a) FAC
Coliform, Fecal *	#/100mL	Max	14	Annual Average	62-600.520(5) FAC
		Max	14	Monthly Median	62-600.520(5) FAC
		Max	43	90th Percentile	62-600.520(5) FAC
		Max	86	Single Sample	62-600.520(5) FAC

This facility has provided reasonable assurance that the discharge will not adversely affect the designated use of the receiving water. Fifth year inspection data, as well as all other available data, have been evaluated in accordance with the Department's reasonable assurance procedures to ensure that no limits other than those included in this permit are needed to maintain Florida water quality standards.

The discharge is to an unnamed ditch (WBID #3121), then to the North Prong of the Sebastian River (WBID 3128A) which has been verified as impaired for DO. The permit includes a minimum limit of 5.0 mg/L for DO, which will not negatively impact the water body. The unnamed ditch as the immediate point of discharge identified in the last permit cycle is now referred to as the Micco Ditches and is not verified as impaired for any parameters.

The previous permit included annual average concentrations limits for total nitrogen and phosphorus. The permit was subsequently revised to remove the annual average concentration limits for these two nutrients to avoid unnecessary compliance issues, due to the intermittent nature of the discharge, in accordance with guidance from Tallahassee and EPA. Expressing an annual nutrient limit in terms of load is more appropriate for an intermittent discharge.

The Total Maximum Daily Load (TMDL) for the Indian River Lagoon was finalized by EPA in April 2007 and adopted by Rule 52-304.520 FAC by the DEP in March 2009. The Federal EPA approved that adoption in November 2009. The TMDL includes a wasteload allocation of:

476 lb/year for Total Nitrogen
78 lb/year for Total Phosphorus

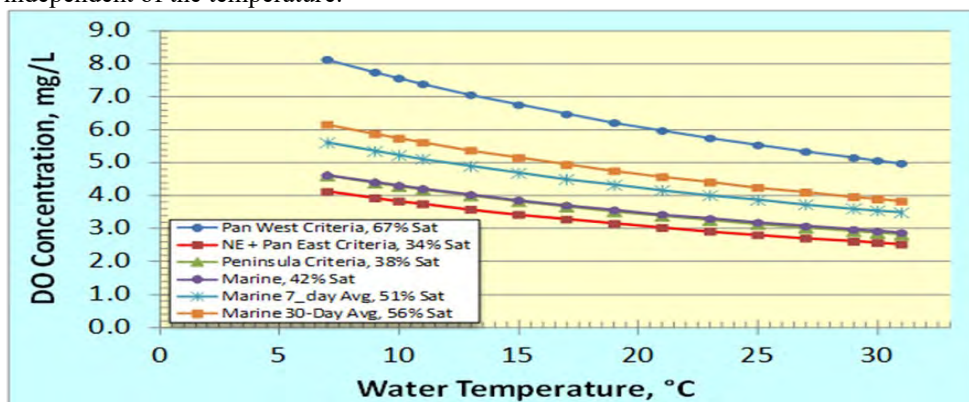
Establishment of Numeric Nutrient Criteria for surface waters may result in a future change of effluent limits.

Criteria for the Whole Effluent Toxicity Tests (WET) requirements: The permit requires the performance of 96-hour definitive static acute toxicity tests to be conducted on freshwater test species. The discharge is infrequent in nature and getting the required samples for the Chronic Toxicity test is not possible. Results of past WET tests showed no significant toxicity caused by the discharge. Based on these results, the frequency of the WET tests was previously reduced to once every twelve months in the last permit. The sampling for the testing shall occur any time during a twelve-month period when the facility is actually discharging to surface waters, unless the permittee notifies the Department in writing that for the last twelve months no surface water discharge has occurred. Department guidelines require the use of freshwater test species to demonstrate unacceptable acute toxicity ("at the end of the discharge pipe").

Intermediate disinfection under subsection 62-600.440(7), F.A.C., requires that the annual average of fecal coliform values not exceed 14 per 100 mL of sample, the monthly median of fecal coliform values not exceed 14 per 100 mL of sample, no more than 10% of samples collected during a month exceed 43 fecal coliform values per 100 mL of sample, and no one sample exceed 86 fecal coliform values per 100 mL of sample." Bacteriological water quality standards under Rule 62-302.530, F.A.C., for Class III predominately fresh waters require that the monthly geometric mean of E. coli values not exceed 126 E. coli values per 100 mL of sample and no more than 10% of samples collected during a month exceed 410 E. coli values per 100 mL of sample. Because E. coli bacteria are a type of fecal coliform bacteria and the disinfection standards in Rule 62-600.440, F.A.C. for fecal coliform are more stringent than the water quality

standards for E. coli in Rule 62-302.530, F.A.C., if the disinfection requirements are met, the water quality standards for E. coli for discharges to Class III predominately fresh waters will be met as well. For this reason, limitations based on the disinfection standards for fecal coliform, rather than the water quality standards for E. coli, have been included in the permit.

Dissolved Oxygen: The single sample dissolved oxygen (DO) minimum of 5.0 was not changed to the new FDEP dissolved oxygen criteria (effective August 2013 and accepted by EPA September 2013) which is based on saturation, because the single sample limit of 5.0 is as stringent as or more stringent than the new criteria. As seen in the attached graph, the state peninsula (area) criteria at 38% saturation and marine criteria at 42% are always below a DO of 5.0 independent of the temperature.



Historical Information (from the first State NPDES permit):

The Indian River Lagoon Protection Act (IRLPA - Chapter 90-262, Laws of Florida) required that all existing wastewater discharges into the Indian River be eliminated by July 1, 1995, with certain exceptions that could be granted by the Department as specifically described in the Act. The facility did not qualify for a limited wet weather discharge (LWWD) under Rule 62-610.860(3), F.A.C. because travel time restrictions to estuarine areas severely limit the applicability of that rule. Subsection 2(3)(c) of the IRLPA allows discharge to the Indian River Lagoon if the facility provides at least advanced wastewater treatment (AWT) for the discharge. The facility has expanded the reuse system to a reuse capacity equal to the permitted treatment capacity of 0.9 MGD. According to 403.086(4)(a) FS, the annual averages for CBOD₅, TSS, TN and TP for an AWT are 5 mg/L, 5 mg/L, 3 mg/L and 1 mg/L, respectively. Also, the facility must provide intermediate level disinfection if the discharge is a backup disposal for reuse, which this facility provides. The proposed annual averages for CBOD₅, TSS, TN and TP for an LWWD are 5 mg/L, 5 mg/L, 3 mg/L and 1 mg/L, respectively. The proposed monthly, weekly and one-time single sample effluent limitations for CBOD₅, TSS, TN and TP are multipliers in accordance with 62-600.740(1)(b)(2)(c and d), FAC. This permit authorizes only an intermittent discharge (91 days per year) to a drainage canal leading to the North Prong of the Sebastian River, a tributary of the Indian River (Indian River Lagoon).

At this time, the permittee has provided reasonable assurance that the discharge will not adversely affect the designated use of the receiving water. Fifth year inspection data, as well as all other available data, have been evaluated in accordance with the Department's reasonable assurance procedures to ensure that no limits other than those included in this permit are needed to maintain Florida water quality standards. The proposed effluent limitations will be achieved during the period beginning on the issuance date and lasting through the expiration date of the permit. The Water Quality Based Effluent Limit (WQBEL) Level I Process was used for this permit renewal to ensure the discharge will not adversely impact the receiving water body. The low frequency of discharge occurring during wet weather conditions is also a factor in providing this reasonable assurance.

This facility is authorized to direct reclaimed water to Reuse System R-001, a slow-rate public access system, based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (Public access reuse)	MGD	Max	1.041	Annual Average	62-600.700(2)(b) & 62-610.810(5) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) & 62-610.810(5) FAC
Flow (Golf course)	MGD	Max	Report	Annual Average	62-600.700(2)(b) & 62-610.810(5) FAC
Flow (Sprayfield)	MGD	Max	0.130	Annual Average	62-600.400(3)(b) FAC
Flow (Infiltration impoundment)	MGD	Max	0.787	Annual Average	62-600.400(3)(b) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.460 & 62-600.420(3)(a)1. FAC
		Max	30.0	Monthly Average	62-610.460 & 62-600.420(3)(a)2. FAC
		Max	45.0	Weekly Average	62-610.460 & 62-600.420(3)(a)3. FAC
		Max	60.0	Single Sample	62-610.460 & 62-600.420(3)(a)4. FAC
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	62-610.460(1) & 62-600.440(6)(a)3. FAC
Coliform, Fecal	#/100mL	Max	25	Single Sample	62-610.460 & 62-600.440(6)(a)2. FAC
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	62-610.460 & 62-600.440(6)(a)1. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	62-600.440(6)(b), 62-610.460(2), & 62-610.463(2) FAC
Turbidity	NTU	Max	Report	Single Sample	62-610.463(2) FAC
Nitrogen, Total	mg/L	Max	Report	Single Sample	62-600.650(3)FAC
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	62-600.650(3)FAC
Giardia	cysts/100L	Max	Report	Single Sample	62-610.463(4) FAC
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	62-610.463(4) FAC

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (Total through plant)	MGD	Max	0.90	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
		Max	Report	Quarterly Average	62-600.700(2)(b) FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	62-600.405(4) FAC
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC
Monitoring Frequencies and Sample Types	-	-	-	All Parameters	62-600 FAC & 62-699 FAC and/or BPJ of permit writer

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Sampling Locations	-	-	-	All Parameters	62-600, 62-610.412, 62-610.463(1), 62-610.568, 62-610.613 FAC and/or BPJ of permit writer

4. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FL0042293-011-DW1P expires on October 15, 2024. Fecal Coliform was added to sampling at D-001 based on Rule 62-600.520(5) FAC. in an earlier permitting cycle. The language for Total Ammonia Nitrogen required under Rule 62-302.530(11)(c), FAC. does not apply to this permit because the prior permit did not require Unionized Ammonia sampling. The testing frequency for TSS and Fecal Coliform is changed to 4 days/week, accordance with Chapter 62-600.530(3) and Chapter 62-600(1) note 4 Florida Administrative Code, and was previously approved by permit modification dated January 7, 2016, FL0042293-009.

PERMITTING HISTORY:

The -008 permit was the last renewal issued on September 10, 2013, for a term of 5 years. No changes were listed in that permit from the previous cycle.

The -009 revision was issued January 7, 2016, to approve a reduction in the frequency of testing for Total Suspended Solids and Fecal Coliform.

The -010 revision was to implement that requirement of the EPA for NPDES facilities to use EZDMR. That was issued October 18, 2016.

5. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be transferred to BCUD/South Central WRF or disposed of in a Class I solid waste landfill.

See the table below for the rationale for the biosolids quantities monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Monitoring Frequency	All Parameters				62-640.650(5)(a) FAC

6. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring requirements have been established in accordance with Chapters 62-520, 532, 601, 610, and 620, F.A.C.

Parameters Arsenic, Cadmium, Chromium, Sulfate and Lead are currently not included in the Ground Water Monitoring Plan (GWMP) because they are not believed to be present in the effluent. However, if the Department has any reasons in the future to believe that these metals are present in the effluent, they will be added to the Ground Water Monitoring Plan sampling list.

Compliance well MWC-4 (WAFR # 96968) will be sampled for all Primary and Secondary Drinking water standard parameters prior to each permit renewal and the results of this analysis must be submitted along with the permit renewal application. [62-520.600(5)2(b)].

Although the parameter Trihalomethanes, Total (TTHMs) in the Effluent Analysis Report exceeded the MCL, it will not be added to the GWMP. TTHMs were added to the GWMP during the last permit cycle and there were no exceedances in the groundwater monitoring wells.

pH was added to the list of parameters.

Historically, the 320-Acre Spray Field Site (A Slow Rate Restricted Public Access System) was changed to an exfiltration trench site with the permit renewal of August 2008. Compliance Monitoring Wells MWC-4, MWC-5, and MWC-6 have been installed at the Trench site. All three (3) wells are 25 feet deep and serve as compliance wells.

7. PERMIT SCHEDULES

The following improvement actions shall be completed according to the following schedule:

Improvement Action	Completion Date
1. Submit reports to the Department detailing the Inflow and Infiltration program efforts.	Every two years from the effective date of this permit.

[62-620.320(6)]

8. INDUSTRIAL PRETREATMENT REQUIREMENTS

At this time, the facility is not required to develop an approved industrial pretreatment program. However, the Department reserves the right to require an approved program if future conditions warrant.

9. ADMINISTRATIVE ORDERS (AO) AND CONSENT ORDERS (CO)

This permit is not accompanied by an AO and the permittee has not entered a CO with the Department.

10. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

11. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received, and additional information is available for public inspection during normal business hours at the location specified in item 13 or online at <http://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/FL0042293/facility!search>.

A third party, Crystal Bay, LLC. asked for a public meeting regarding the issuance of this permit in July 2018. Upon review by the Office of General Council, it was determined that the issue presented by the Crystal Bay, LLC is a civil matter between it and the utility. There were no issues involving the suitability of the draft permit and therefore the Department did not schedule a public meeting.

The Notice of Intent to Issue was signed and sent on January 16, 2019; on January 25, 2019, Crystal Bay, LLC, filed a Timely Motion for Enlargement of Time to File Initial Pleading; on January 29, 2019, an extension until March 11, 2019, was granted. On March 11, 2019, another extension request was filed and was granted. On April 10, 2019, another extension request was filed and granted on April 16, 2019. On May 10, 2019, a third extension request and a petition against the permit was received. On May 28, 2019, the request for extension and the petition was dismissed with leave to amend and allowed 15 days to submit an amended petition. An amended Petition was filed on June 12, 2019 and was dismissed without prejudice on July 16, 2019 with leave to amend. A second amended petition was filed on August 16, 2019. A Final Order of Dismissal with Prejudice was sent to the petitioner on September 13, 2019. The petitioner filed a notice of appeal on October 11, 2019.

12. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

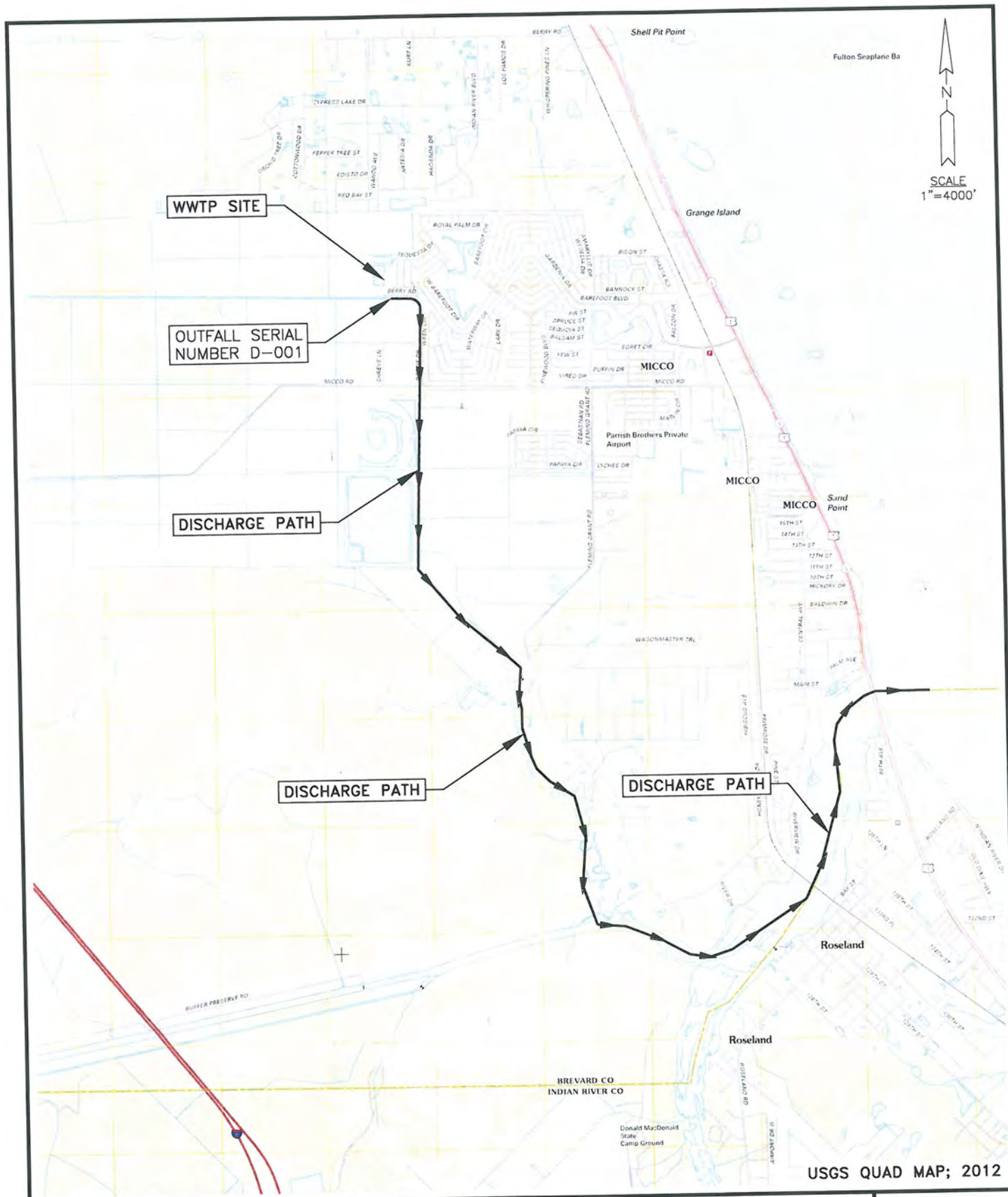
Draft Permit and Public Notice to Applicant and EPA	May 18, 2018
Public Comment Period	Beginning: May 22, 2018 Ending: June 21, 2018
Proposed Permit to Tallahassee	May 18, 2018
Preliminary Draft to the County:	June 6, 2018
Notice of Draft Permit to County	June 22, 2018
Notice of Intent to Issue	January 16, 2019
Notice of Permit Issuance	October 16, 2019

13. DEPARTMENT CONTACT

Additional information concerning the permit and proposed schedule for permit issuance may be obtained during normal business hours from:
Permitting and Waste Cleanup Program

3319 Maguire Blvd, Suite 232
Orlando, FL 32803-3767

Telephone No.: 407-897-4100



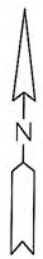
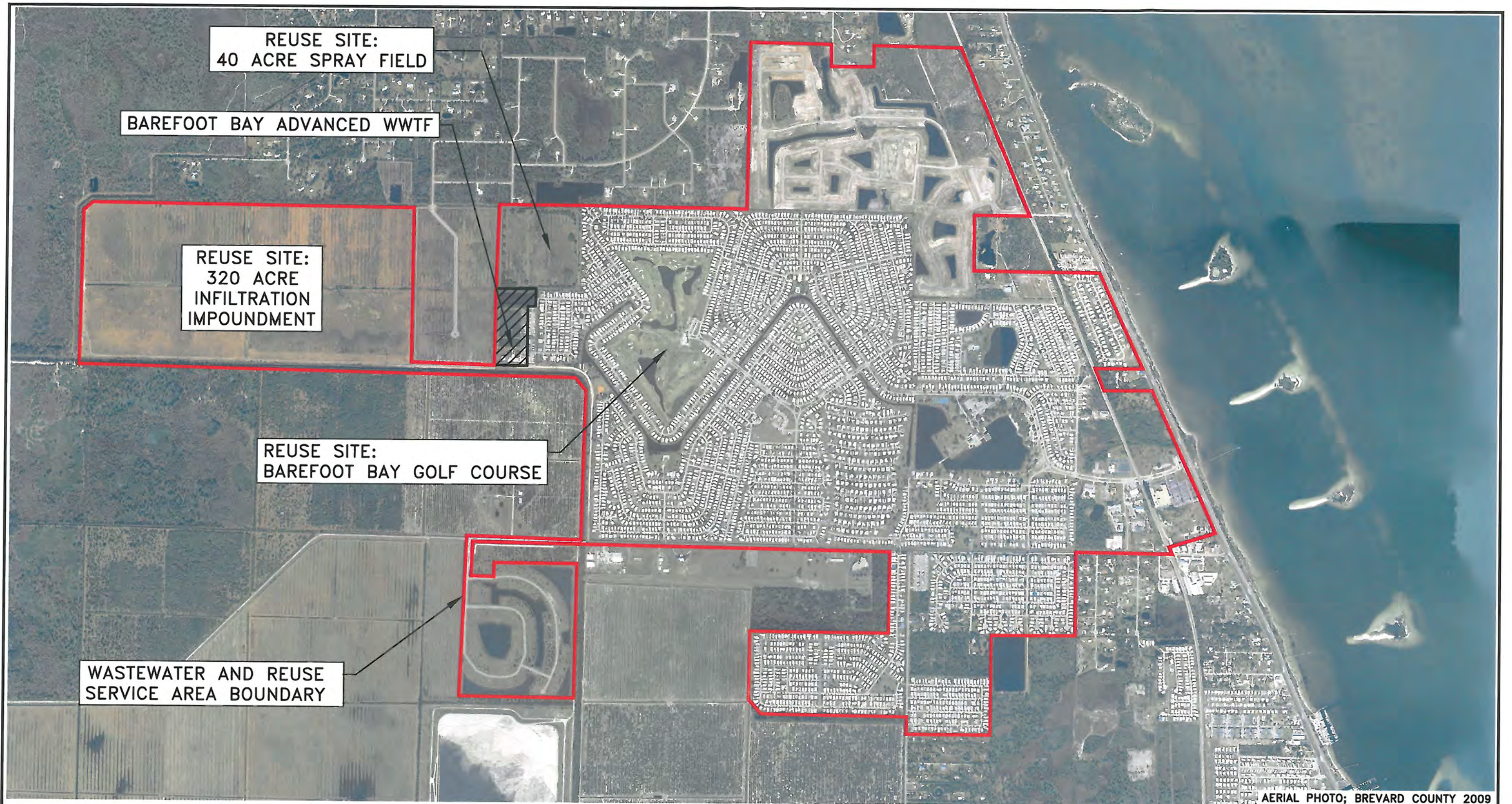
WADETRIM

3790 Dixie Highway NE, Suite D
Palm Bay, FL 32905
321.728.3389 FAX: 321.728.3393
Certificate of Authorization No.: 3952
www.wadetrtrim.com Building relationships on a foundation of excellence



WET WEATHER DISCHARGE PATH
BAREFOOT BAY ADVANCED WASTEWATER
TREATMENT FACILITY
O & M PERFORMANCE REPORT
BREVARD COUNTY, FLORIDA

FIGURE 1-5



WADETRIM

3790 Dixie Highway NE, Suite D
Palm Bay, FL 32905
321.728.3389 FAX: 321.728.3393
Certificate of Authorization No.: 3952
www.wadetrtrim.com Building relationships on a foundation of excellence



SERVICE AREA MAP
BAREFOOT BAY ADVANCED WASTEWATER
TREATMENT FACILITY
CAPACITY ANALYSIS REPORT
N FT MYERS, LEE COUNTY, FLORIDA

FIGURE 1-2

This page intentionally left blank

SOUTH BEACHES WASTEWATER TREATMENT FACILITY



NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION PLAN

OCTOBER 2021

This page intentionally left blank

Cover Sheet for Plan Submittal

Facility Name BCUD - South Beaches WWTF

Facility ID FL0040622

Contact Person Name, Title, Phone, Email Edward Fontanin, P.E., Utility Services Director
Brevard County Utility Services Department, (321) 633-2093; edward.fontanin@brevardfl.gov

If the requirement for a plan does not apply to the facility, please mark which exemption applies (attach documentation demonstrating that the facility meets the exemption) **Not Applicable**

Check One	Exemption
	Facility is in a fiscally constrained county as described in section 218.67(1), F.S.
	Facility is in a municipality that is entirely with a rural area of opportunity as designated pursuant to section 288.0656, F.S.
	Facility is in a municipality that has less than \$10 million in total revenue, as determined by the municipality's most recent annual financial report submitted to the Department of Financial Services in accordance with section 218.32, F.S.
	Facility is operated by an operator of a mobile home park as defined in section 723.003, F.S., and has a permitted capacity of less than 300,000 gallons per day.

Indicate which plan(s) category under which the facility will comply

Check One	Plan Category
	The plan eliminates the discharge.
	The plan meets section 403.086(10), F.S.
	The plan does not eliminate the discharge – The discharge is associated with an indirect potable reuse project;
X*	The plan does not eliminate the discharge – The discharge is a wet weather discharge that occurs in accordance with an applicable department permit;
	The plan does not eliminate the discharge – The discharge is into a stormwater management system and is subsequently withdrawn by a user for irrigation purposes;
	The plan does not eliminate the discharge – The utility operates the domestic wastewater treatment facilities with reuse systems that reuse a minimum of 90 percent of a facility's annual average flow, as determined by the department using monitoring data for the prior 5 consecutive years, for reuse purposes authorized by the department; or
	The plan does not eliminate the discharge – The discharge provides direct ecological or public water supply benefits, such as rehydrating wetlands or implementing the requirements of minimum flows and minimum water levels or recovery or prevention strategies for a waterbody.

* The plan does not eliminate the discharge. The discharge is an existing 0.11 MGD AADF surface water discharge to the Indian River Lagoon during Mechanical Integrity Testing (MIT) of the single Deep Injection Well at the South Beaches WWTF. No category for this in the table.

Please enter the information on discharges eliminated **Not Applicable**

Discharge Type (effluent, reclaimed water, or reuse water)	Average Gallons Per Day	Date the discharge will be eliminated

Please enter information on any continuing discharges to surface waters after January 1, 2032.

Discharge Allowance Category	Discharge Type (effluent, reclaimed water, or reuse water)	Average Gallons Per Day	Treatment Level Provided (e.g. BOD limit = 5mg/L, TSS = 5 mg/L, TN = 3mg/L, TP = 1mg/L and high-level disinfection)
Meets section 403.086(10), F.S.			
Associated with an indirect potable reuse project.			
Wet weather discharge in accordance with an applicable department permit.	Reclaimed Water during MIT testing of DIW	Up to 0.11 MGD AADF per Permit	AWT and high-level disinfection are provided at the SBWWTF
Discharge into a stormwater management system that is subsequently withdrawn by a user for irrigation purposes.			
Reuse system reuses a minimum of 90 percent of a facility's annual average flow.			
Discharge provides direct ecological or public water supply benefits.			

* **The plan does not eliminate the discharge. The discharge is an existing 0.11 MGD AADF surface water discharge to the Indian River Lagoon during Mechanical Integrity Testing (MIT) of the single Deep Injection Well at the South Beaches WWTF. No category for this in the table.**

Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signatory Representative
Name *and Official Title* (type or
print) [Rule 62-620.305, F.A.C.]

**Edward Fontanin, P.E., Utility Services Director
Brevard County Utility Services Department**

Authorized Signatory Representative Signature

Date Signed

This page intentionally left blank

SOUTH BEACHES

WASTEWATER TREATMENT FACILITY

NON-BENEFICIAL SURFACE WATER ELIMINATION PLAN



OCTOBER 2021

CPH, Inc.
500 West Fulton Street
Sanford, Florida 32771
CPH Project No. B19507

This page intentionally left blank

TABLE OF CONTENTS

1. Executive Summary	1-1
1.1 Introduction	1-1
1.2 Regulatory Framework for Non-Beneficial Surface Water Discharge Elimination	1-2
1.3 Existing Facility Conditions	1-2
1.4 Non-Beneficial Surface Water Discharge Elimination Plan	1-4
1.5 Potential Treatment Facility Improvements	1-6
 2. Regulatory Framework for Non-Beneficial Surface Water Discharge Elimination	 2-1
2.1 Introduction	2-1
2.2 Non-Beneficial Surface Water Discharge Elimination Law/Requirements	2-1
2.3 South Beaches WWTF - Current Disposal Practices	2-4
 3. Existing Facility Conditions	 3-1
3.1 Wastewater Management System Service Area	3-1
3.2 South Beaches Wastewater Treatment Facility (SBWWTF)	3-1
3.2.1 Primary Treatment System	3-9
3.2.2 Secondary Treatment System - Carrousel Oxidation Ditch System	3-10
3.2.3 Secondary Treatment System - Conventional Activated Sludge System	3-10
3.2.4 Tertiary Treatment System	3-11
3.2.5 Disinfection System	3-12
3.2.6 Transfer Pump Station	3-13
3.2.7 Reclaimed Water/Effluent Disposal System	3-13
3.2.8 Sludge Management System	3-16
3.3 Permitted Capacity	3-16
3.4 Historical Wastewater Flows	3-19
3.5 Facility Effluent Flows	3-27
3.6 Facility Effluent Quality	3-37
3.6.1 CBOD ₅ Treatment (Removal) Efficiency	3-37
3.6.2 TSS Treatment (Removal) Efficiency	3-40
3.6.3 TN Treatment (Removal) Efficiency	3-41
3.6.4 TP Treatment (Removal) Efficiency	3-41

TABLE OF CONTENTS

4. Non-Beneficial Surface Water Discharge Elimination Plan.	4-1
4.1 The South Beaches WWTF Discharge Elimination Plan.	4-1
4.2 Capacity and Efficiency of the South Beaches WWTF	4-4
4.3 Ability of the South Beaches WWTF to Meet “Current” and “Future” Nutrient Limits	454

Appendices

A	South Beaches WWTF: “Existing” FDEP Operations Permit
----------	---

TABLE OF CONTENTS

List of Tables

Table 3.2-1	South Beaches WWTF Design and Current Wastewater Flows	3-8
Table 3.2-2	South Beaches WWTF - Influent and Effluent Design Criteria	3-8
Table 3.4-1	South Beaches WWTF - Historical Wastewater Flows	3-20
Table 3.5-1	South Beaches WWTF - Effluent Disposal (2016 - 2020)	3-28
Table 3.6-1	South Beaches WWTF - Reclaimed Water Quality (2016 - 2020)	3-38

List of Figures

Figure 3.1-1	South Beaches Wastewater Management System Service Area	3-2
Figure 3.2-1	South Beaches WWTF - Aerial View	3-4
Figure 3.2-2	South Beaches WWTF: Schematic Flow Diagram	3-5
Figure 3.2-3	South Beaches WWTF: Facility Site Plan	3-6
Figure 3.2-4	South Beaches Reclaimed Water Service Area	3-7
Figure 3.3-1	South Beaches Reclaimed Water Service Area - Major Users	3-18
Figure 3.4-1	South Beaches WWTF: Historical Wastewater Flows (ADF)	3-23
Figure 3.4-2	South Beaches WWTF: Historical Wastewater Flows (3-Month ADF)	3-24
Figure 3.4-3	South Beaches WWTF: Historical Wastewater Flows (AADF)	3-25
Figure 3.4-4	South Beaches WWTF: Annual Variations in Flow	3-26
Figure 3.5-1	South Beaches WWTF: Deep Injection Well (U-001) - Historical Effluent Monthly ADF	3-31
Figure 3.5-2	South Beaches WWTF: Deep Injection Well (U-001) - Historical Effluent AADF	3-32
Figure 3.5-3	South Beaches WWTF: Reclaimed Water System (R-001) - Historical Effluent Monthly ADF	3-33
Figure 3.5-4	South Beaches WWTF: Reclaimed Water System (R-001) - Historical Effluent AADF	3-34
Figure 3.5-5	South Beaches WWTF: Surface Water Discharge (D-001) To The Indian River Lagoon (IRL) - Historical Effluent Monthly ADF	3-35
Figure 3.5-6	South Beaches WWTF: Surface Water Discharge System (D-001) To The Indian River Lagoon (IRL) - Historical Effluent AADF	3-36

TABLE OF CONTENTS

List of Abbreviations

AADF	Annual Average Daily Flow
AC	Acres
ASP	Activated Sludge Process
AWET	Acute Whole Effluent Toxicity
ADF	Average Daily Flow
BCUD	Brevard County Utilities Department
BFP	Belt Filter Press
BMP	Best Management Practices
BNR	Biological Nutrient Removal
BOD	Biochemical Oxygen Demand
CAR	Capacity Analysis Report
CBOD ₅	Carbonaceous Biochemical Oxygen Demand - 5-Day
CCC	Chlorine Contact Chamber
CFR	Code of Federal Regulations
CIP	Capital Improvements Plan
COD	Chemical Oxygen Demand
DIW	Deep Injection Well
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
F/M	Food-to-Microorganism Ratio
FSS	Fixed Suspended Solids
GPCD	Gallons per Capita-Day
HDT	Hydraulic Detention Time
HP	Horsepower
hr	Hour
HRT	Hydraulic Retention Time
IR	Internal Recycle
lb	Pounds
lb/day	Pounds per day
MCRT	Mean Cell Residence Time
MDF	Maximum Daily Flow
mg	Milligram
mg/L	Milligrams per Liter
MG	Million Gallons
MGD	Million Gallons per Day

TABLE OF CONTENTS

List of Abbreviations

Min	Minutes
MLSS	Mixed Liquor Suspended Solids
MLVSS	Mixed Liquor Volatile Suspended Solids
MOP	Monitoring and Operating Protocol
NaOCl	Sodium Hypochlorite
NH ₃ -N	Ammonia-Nitrogen
O&M	Operations and Maintenance
ORP	Oxidation Reduction Potential
PAR	Public Access Reuse
PD	Positive Displacement
PHF	Peak Hourly Flow
PVC	Polyvinyl Chloride
RAS	Return Activated Sludge
RCP	Reinforced Concrete Pipe
RPM	Revolutions per Minute
SBWWTF	South Beaches Wastewater Treatment Facility
SCADA	Supervisory Control and Data Acquisition
SLR	Solids Loading Rate
SNdN	Simultaneous Nitrification-Denitrification
SOR	Surface Overflow Rate
SRF	State Revolving Fund
SRT	Solids Retention Time
SU	Standard Unit
TDH	Total Dynamic Head
TKN	Total Kjeldahl Nitrogen (Organic-N + NH ₃ -N)
TMDL	Total Maximum Daily Load
TN	Total Nitrogen
TP	Total Phosphorus
TRC	Total Residual Chlorine
TS	Total Solids
TSS	Total Suspended Solids
VFD	Variable Frequency Drive
VS	Volatile Solids
VSS	Volatile Suspended Solids
WAS	Waste Activated Sludge
WLR	Weir Loading Rate
WOR	Weir Overflow Rate
WRF	Water Reclamation Facility

This page intentionally left blank

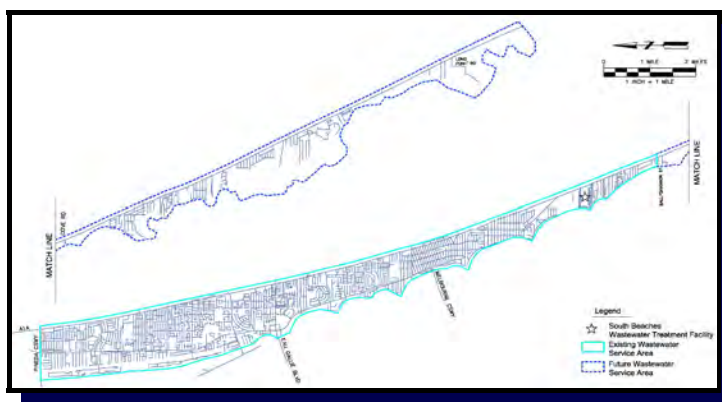
SECTION 1

EXECUTIVE SUMMARY

1.1 INTRODUCTION

The promotion of water conservation and reuse of reclaimed water are State goals/objectives and are considered to be in the public interest. The State also finds that the reuse of reclaimed water is a critical component of meeting the State's existing and future water supply needs while sustaining natural systems. To enhance the quality of surface waters throughout the Florida, the State is looking to reduce/eliminate non-beneficial surface water discharges by wastewater treatment facility's through a new law and modifications to Section 403.064, "*Reuse of Reclaimed Water*", of the Florida Statutes. The new law requires utilities with wastewater treatment plants that discharge to surface waters to submit a Non-Beneficial Surface Water Discharge Elimination Plan to the FDEP to review by November 1, 2021 with full implementation of any proposed improvements completed by January 1, 2032.

Brevard County owns and operates the South Beaches WWTF (SBWWTF) to process all of the wastewater generated within its permitted service area. The treatment facility serves the residential subdivisions and commercial development in this portion of Brevard County. The County has invested million of dollars into this facility and all of its ancillary components over the last twenty (20) years as well as reclaimed water distribution/transmission and effluent disposal infrastructure.



South Beaches Wastewater Management System Service Area

The current regulatory environment, including the State's attempt to eliminate non-beneficial surface water discharges, requires Brevard County to evaluate the SBWWRF's surface water discharge and its potential impacts to Indian River Lagoon and potential infrastructure improvements required at the South Beaches WWTF in accordance with the requirements of Section 403.064, "*Reuse of Reclaimed Water*", and Section 403.086, "*Sewage Disposal Facilities; Advanced and Secondary Waste Treatment*", of the Florida Statutes.

This Non-Beneficial Surface Water Discharge Elimination Plan for the South Beaches WWTF includes the evaluation of the current FDEP-permitted surface water discharge to the Indian River Lagoon (only during MIT of the deep injection well), the amount of effluent discharged to the Deep Injection Well (DIW) System, the amount of reclaimed water utilized throughout the service area, and the capability of the facility to meet Advanced Wastewater Treatment (AWT) Standards on a consistent basis to ensure protection of the environment. This Surface Water Discharge Elimination Plan is comprised of the following Sections:

- Section 2: Regulatory Framework for Non-Beneficial Surface Water Discharge Elimination
- Section 3: Existing Facility Conditions
- Section 4: Non-Beneficial Surface Water Discharge Elimination Plan

1.2 REGULATORY FRAMEWORK FOR NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION

The State of Florida Legislature developed and passed House Bill 263 and Senate Bill 64, and the Governor signed the legislation into law on June 29, 2021, requiring domestic wastewater utilities to submit a Plan to the FDEP for eliminating non-beneficial surface water discharges (e.g., treated effluent, reclaimed water or reuse water).

The new law creates a timeline and Plan to eliminate non-beneficial surface water discharge by January 1, 2032, subject to the requirements of the law. It contains a series of conditions authorizing discharges that are being beneficially used or otherwise regulated, and for specified hardships. The law requires domestic wastewater utilities that dispose of effluent, reclaimed water, or reuse water by surface water discharge to submit a Plan to eliminate non-beneficial surface water discharge to the Florida Department of Environmental Protection (FDEP) by November 1, 2021 and fully implemented at the treatment facility by January 1, 2032.

1.3 EXISTING FACILITY CONDITIONS

The South Beaches WWTF is classified as an 8.0 MGD AADF *Secondary Treatment plus Filtration* Facility (Category I, Class A), utilizing two (2) parallel wastewater treatment plants to treat the incoming raw wastewater from the service area, meets all Class II Reliability criteria and is currently operating under FDEP Permit No. FL0102679. The unit operations and processes currently employed are as follows:

Treatment Elements	Description
Primary Treatment	An automatic, continuous, self-cleaning, mechanical barscreen with a screenings compacting/dewatering screw system; a manual barscreen (back-up); and an odor control system. The grit removal system is currently out of service.
Secondary Treatment	<p>Carrousel Oxidation Ditch Treatment System (6.0 MGD AADF) The “primary” biological treatment process at the SBWWTF. This system provides biological oxidation of the organic wastes in a dual-train oxidation ditch system operating in the extended aeration mode. Following treatment, the MLSS is conveyed to a pair of 102.5-foot diameter (12-foot sidewater depth) secondary clarifiers that are utilized for sedimentation of the solids.</p> <p>Conventional Activated Sludge Process System (2.0 MGD AADF) The “secondary” biological treatment process at the SBWWTF. This system provides biological oxidation of the organic wastes utilizing a single conventional activated sludge process (5-pass configuration) with aerobic and anoxic zones. Following treatment, flow is conveyed to a single 65-foot diameter (10-foot sidewater depth) secondary clarifier for sedimentation of the solids.</p>
Tertiary Treatment	Tertiary filtration via three (3) dual-media filters (sand and anthracite). Each tertiary filter is rated at 1.0 MGD AADF. Only effluent that is being sent to the public access reuse system is filtered.
Disinfection	High-level disinfection of the effluent sent to the public access reuse and surface water discharge systems is accomplished through the use of bulk liquid NaOCl (chemical feed/storage systems) and a system of chlorine contact chambers.
Dechlorination	Dechlorination of the effluent that this discharged to the surface water disposal system, on an intermittent basis (during mechanical integrity testing of the deep injection well), is accomplished through the use of liquid sodium bisulfite.
Sludge Treatment	Sludge treatment consisting of a sludge holding tank; air compression system with coarse bubble diffusers; sludge pumping system; and a sludge dewatering system (2 belt filter presses). Dewatered sludge is transported to the local Class I Solid Waste Landfill for final disposal.

A high-quality effluent is produced at the facility and is used throughout the South Beaches WWTF Service area in accordance with the following disposal systems:

Disposal System	FDEP Designation	AADF Capacity (MGD)	Disposal System Description
Land Application (Reuse)	R-001	3.00	An existing slow-rate public access system. R-001 is a reuse system which consists of a reclaimed water transmission/distribution system for public access spray irrigation within the Reclaimed Water Service Area. Reclaimed water is also stored in an existing stormwater retention pond system located at the Spessard Holland Golf Course that has a combined storage capacity of 4.31 MG (seven interconnected ponds). The pond system has an intermittent discharge from Pond 6 to adjacent drainage features, which ultimately discharge to the Indian River Lagoon.

Disposal System	FDEP Designation	AADF Capacity (MGD)	Disposal System Description
Underground Injection System	U-001	9.00	An existing 9.00 MGD AADF permitted capacity Deep Injection Well (DIW) system consisting of one (1) Class I underground injection well (2,227 foot deep) permitted under Department Permit No. 0185898-004 discharging to a Class G-IV ground water.
Surface Water Discharge	D-001	0.11	An existing 0.110 MGD AADF discharge to the Indian River Lagoon, Class III Marine waters, (WBID# 2963A1). The 0.110 MGD discharge is authorized at discharge location D-001 for a period not to exceed five (5) days during the Mechanical Integrity Testing (MIT) of the facility's Deep Injection Well. The permitted discharge of 8.00 MGD over 5 days equates to an Annual Average Daily Flow of 0.11 MGD.

Surface water discharges from the South Beaches WWTF to the Indian River Lagoon occur during Mechanical Integrity Testing (MIT) of the Deep Injection Well and during intense rainfall events associated with tropical systems (Hurricane Matthew, Hurricane Irma, etc.) and severe localized thunderstorms (excessive infiltration/inflow leading to raw wastewater flows in excess of the permitted capacity of the facility).

The South Beaches WWTF is efficient in treating the raw wastewater from the service area and is in compliance with all FDEP Operations Permit requirements/limitations.

1.4 NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION PLAN

The detailed evaluation of South Beaches WWTF monthly operating data indicates the following:

- Only 22.5% of the annual average effluent flow was reused within the South Beaches Reclaimed Water Service area via the existing slow-rate public access reuse system (R-001). This is unlikely to vary significantly in the future as there are very few additional opportunities for expansion of the reuse system as the service area is almost completely built-out.
- Approximately 0.8% of the annual average effluent flow was been disposed of through the surface water discharge system (D-001) to the Indian River Lagoon. The main discharge events were due to MIT testing of the Deep Injection Well (DIW) and the large volumes of infiltration and inflow (I/I) received at the South Beaches WWTF in 2016 and 2017 due to Hurricanes Matthew and Irma. However, it should be noted that there has not been a surface water discharge from the facility to the Indian River Lagoon since October 2017.

- The majority of the effluent disposal, approximately 76.7% of the annual average effluent flow was disposed of through the Deep Injection Well system (U-001) at the South Beaches WWTF. This is due to the built-out condition within the barrier island service area and limited potential for public access reuse.

Therefore, the South Beaches WWTF Non-Beneficial Surface Water Elimination Plan, to be implemented in accordance with Section 403.064, F.S., and the need to meet the AWT regulatory requirements of Section 403.086, F.S., will require the County to implement one of the following infrastructure improvements alternatives based on a detailed engineering evaluation of each alternative and project capital and operating costs:

Potential SBWWTF Improvements Alternative No.	State of Florida Regulatory Requirements	
	Discharges to the Indian River Lagoon (IRL) must meet AWT Criteria	Non-Beneficial Surface Water Discharge Elimination Plan
	Section 403.086, F.S.	Section 403.064, F.S.
	Implementation by July 1, 2025	Implementation by January 1, 2032
1	<p>Phase I: Conversion of the 2.0 MGD Conventional Activated Sludge WWTF to a 4-Stage BNR treatment system capable of producing an effluent that meets the AWT Criteria. All reclaimed water utilized in the service area would have a low nutrient concentration (TN, TP). The surface water discharge (D-001; 0.11 MGD AADF) would be kept in place due to the MIT associated with the single existing DIW. However, after commissioning of the second DIW as part of the Phase II improvements, the surface water discharge would be reclassified as a "wet weather" discharge to be used during periods intense rainfall from tropical events and localized storms.</p>	<p>Phase II: Installation of a second Deep Injection Well (DIW) on the South Beaches WWTF site with a capacity of 9.0 MGD AADF. The second DIW would provides the County with the following advantages:</p> <ul style="list-style-type: none"> ■ Provides Class I Reliability ■ Eliminates the need for surface water discharge of the effluent associated with MIT testing of a single DIW ■ Allows alternating operation of the DIW's <p>As previously states, the surface water discharge would be reclassified as a wet "weather discharge" upon commissioning of the new DIW.</p>
2	<p>Phase I: Conversion of the 2.0 MGD Conventional Activated Sludge WWTF to a 4-Stage BNR treatment system capable of producing an effluent that meets the AWT Criteria. All reclaimed water utilized in the service area would have a low nutrient concentration (TN, TP). The surface water discharge (D-001 - 0.11 MGD AADF) would be kept in place due to the MIT associated with the single existing DIW.</p>	<p>Phase II: Conversion of the 6.0 MGD Carrousel Oxidation Ditch WWTF to a 4-Stage or 5-Stage BNR treatment system capable of producing an effluent that meets the AWT Criteria. Upon completion of the Phase II project all disposal methods (reuse, surface water discharge, DIW) would occur with an effluent having a low nutrient concentration (TN, TP).</p>

1.5 POTENTIAL TREATMENT FACILITY IMPROVEMENTS

The reclaimed water quality produced by the South Central Regional WRF during the last five-year period (2016 - 2020) and the ability to meet AWT Criteria is presented below:

Parameter	AWT Effluent Limits (mg/L)	Effluent Concentration (mg/L)*	"Current" Facility Effluent Meets AWT Criteria
BOD ₅	5	1.5	Yes
TSS	5	0.7	Yes
Total Nitrogen (TN)	3	7.8	No
Total Phosphorus (TP)	1	1.8	No
pH	6.0 - 8.5	7.28	Yes

* Concentrations of reclaimed water constituents from Jan 2016 - Dec 2020

** Values in "red" exceed the AWT Criteria

To meet the surface water discharge regulatory requirements mandated in 403.086, F.S., on a continual basis, conversion of the 2.0 MGD Conventional Activated Sludge Process to a 4-Stage BNR treatment system, at a minimum, is required as outlined in Section 4.1 of this document. The new BNR treatment system will be capable of generating a high-quality effluent that meets all AWT Criteria. Thus, water being delivered to the public access reuse system and the Spessard Holland Golf Course pond system (potential intermittent discharge to the Indian River Lagoon) would be very low in nutrients, meet AWT criteria and meet the regulatory requirements mandated in Section 403.086, F.S.

A thorough engineering evaluation of the potential improvements required at the South Beaches WWTF to meet the regulatory requirements mandated in 403.086, F.S. and 403.064, F.S., discussed in Section 4.1, will be conducted to determine the most reliable, energy-efficient, and cost-effective modifications to the treatment facility. The identified improvements will then be included in the County's Utility Capital Improvements Program (CIP) and a project schedule generated to ensure that design, construction, optimization and commissioning of said improvements are completed prior to the regulatory deadlines.

SECTION 2

REGULATORY FRAMEWORK FOR NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION

2.1 INTRODUCTION

This Section of the Non-Beneficial Surface Water Discharge Elimination Plan (NBSWDEP) presents the regulatory framework for the potential surface water elimination/reduction options for Brevard County's South Beaches WWTF. The regulations regarding the surface water discharge elimination program have been promulgated by the State of Florida under 403.064, "*Reuse of Reclaimed Water*" (June 2021). The new law requires Brevard County to submit to the Florida Department of Environmental Protection (FDEP), by November 1, 2021, a Plan for eliminating non-beneficial treatment facility effluent discharges to surface waters.

The Florida Department of Environmental Protection (FDEP) regulates surface waters and watersheds within the State and the approach for restoring and protecting State waters and addressing TMDL Program requirements (1972 Federal Clean Water Act and the 1999 Florida Watershed Restoration Act (FWRA)).

2.2 NON-BENEFICIAL SURFACE WATER ELIMINATION LAW/REQUIREMENTS

The State of Florida Legislature, during the past session, developed and passed House Bill 263 and Senate Bill 64 requiring domestic wastewater utilities to submit a Plan to the FDEP for eliminating non-beneficial surface water discharges (e.g., treated effluent, reclaimed water or reuse water). Governor DeSantis signed the legislation into law on June 29, 2021. The law added new regulatory requirements to 403.064, "*Reuse of Reclaimed Water*" of the Florida Statutes which will be discussed herein.

The new law creates a timeline and Plan to eliminate non-beneficial surface water discharge by January 1, 2032, subject to the requirements of the law. It contains a series

of conditions authorizing discharges that are being beneficially used or otherwise regulated, and for specified hardships. The law requires domestic wastewater utilities that dispose of effluent, reclaimed water, or reuse water by surface water discharge to submit a Plan to eliminate non-beneficial surface water discharge to the Florida Department of Environmental Protection (FDEP). The Plan must be submitted to FDEP by November 1, 2021 and implemented by January 1, 2032.

The Non-Beneficial Surface Water Discharge Elimination Plan must include the following:

- The average flow (MGD) of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters and the date of such elimination;
- The average flow (MGD) of surface water discharge that will continue in accordance with the requirements for the elimination of ocean outfalls, one of the discharge conditions specified in the legislation or one of the hardship conditions; and
- The level of treatment which the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative.

To be approved by the FDEP, the Non-Beneficial Surface Water Discharge Elimination Plan must:

- Result in eliminating the surface water discharge;
- Result in meeting the statutory requirements (Section 403.086(10)) regarding the discharge of domestic wastewater through an ocean outfall; or
- Provide an affirmative demonstration that any of the following discharge conditions applies to the remaining discharge if the Plan does not provide for the complete elimination of surface water discharge:

Discharge Conditions
The discharge is associated with an indirect potable reuse project.
The discharge is a wet weather discharge that occurs in accordance with an applicable FDEP permit.
The discharge is into a stormwater management system and is subsequently withdrawn by a user for irrigation purposes.
The utility operates domestic wastewater treatment facilities with reuse systems that reuse a minimum of ninety percent (90%) of a facility's annual average flow, as determined by the FDEP using monitoring data for the prior five (5) consecutive years, for reuse purposes authorized by the FDEP.
The discharge provides direct ecological or public water supply benefits, such as rehydrating wetlands or implementing the requirements of minimum flows and minimum water levels or recovery or prevention strategies for a waterbody.

The new law requires the FDEP to approve or deny a Non-Beneficial Surface Water Discharge Elimination Plan within nine (9) months after receiving the Plan. Brevard County may modify the South Beaches WWTF Plan by submitting the proposed modification(s) to the FDEP for review. However, the Plan may not be modified such that the requirements of the new law are not met and the FDEP may not extend the time within which a Plan will be implemented. The approval of the Plan or a modification by the FDEP does not constitute final agency action.

If the Non-Beneficial Surface Water Discharge Elimination Plan is not submitted in a timely manner by the County, or approved by the FDEP, the South Beaches WWTF may not dispose of effluent, reclaimed water, or reuse water by surface discharge after January 1, 2028. In addition, a violation subjects Brevard County to administrative and civil penalties pursuant to ss. 403.121, 403.131, and 403.141.

A domestic wastewater utility applying for a permit for a new or expanded surface water discharge is now required to prepare a Plan in accordance with 403.064, F.S. as part of that permit application. The FDEP may not approve a permit for a new or expanded surface water discharge unless the Plan meets one or more of the conditions provided in the new law.

By December 31, 2021, and annually thereafter, the FDEP is required to submit a report to the President of the Florida Senate and the Speaker of the Florida House of Representatives which provides the average gallons per day of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters by the utility and the dates of such elimination; the average gallons per day of surface water discharges that will continue in accordance with the alternatives provided in the law, and the level of treatment that the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative and utility; and any modified or new plans submitted by a utility since the last report.

This new law does not apply to any of the following:

A domestic wastewater treatment facility that is located in a fiscally constrained Florida County as described in s. 218.67(1).

A domestic wastewater treatment facility that is located in a municipality that is entirely within a rural area of opportunity as designated pursuant to s. 288.0656.

A domestic wastewater treatment facility that is located in a municipality that has less than \$10 million in total revenue, as determined by the municipality's most recent annual financial report submitted to the Department of Financial Services in accordance with s. 218.32.

A domestic wastewater treatment facility that is operated by an operator of a mobile home park as defined in s. 723.003 and has a permitted capacity of less than 300,000 gallons per day.

Therefore, as the South Beaches WWTF has a permitted “intermittent” surface water discharge to the Indian River Lagoon (for a period of five days during Mechanical Integrity Testing of the facility’s underground injection control well) and does not meet one of the Plan exemptions, as identified above, a Non-Beneficial Surface Water Discharge Elimination Plan must be submitted to FDEP by the November 1, 2021 deadline.

2.3 SOUTH BEACHES WWTF - CURRENT DISPOSAL PRACTICES

Brevard County owns and operates the South Beaches Wastewater Treatment Facility (SBWWTF) which is classified as a *Secondary Treatment plus Filtration Facility* (Category I, Class A) utilizing two (2) parallel treatment plants and meets all Class II Reliability Criteria. The treatment plants include a 6.0 MGD AADF Carrousel Oxidation Ditch System (dual train) and a 2.0 MGD AADF Conventional Activated Sludge Process (aerobic/anoxic). The treatment facility consists of a mechanical influent screening systems, three (3) treatment trains with chemical feed facilities, secondary clarification, tertiary filtration, high-level disinfection, pumping systems, reclaimed water storage and a deep injection well.



Reclaimed water is produced at the facility and meet all FDEP requirements. The current permitted treatment capacity of the facility is 8.00 MGD AADF and the SBWWTF is operating under FDEP Operations Permit No. FL0040622 (a copy is provided in Appendix A). Biosolids are partially digested, dewatered, and then transported to a Class I solid waste landfill for final disposal.

Reuse/effluent disposal is achieved by a combination of the following FDEP-permitted disposal systems:

Disposal System	FDEP Designation	AADF Capacity (MGD)	Disposal System Description
Land Application (Reuse)	R-001	3.00	An existing slow-rate public access system. R-001 is a reuse system which consists of a reclaimed water transmission/distribution system for public access spray irrigation within the Reclaimed Water Service Area. Reclaimed water is also stored in an existing stormwater retention pond system located at the Spessard Holland Golf Course that has a combined storage capacity of 4.31 MG. The 4.31 MG stormwater retention pond system consists of seven (7) ponds that are interconnected with underground culvert pipes at the golf course. The pond system has an intermittent discharge from Pond 6 to adjacent drainage features, which ultimately discharge to the Indian River Lagoon.
Underground Injection System	U-001	9.00	An existing Deep Injection Well (DIW) system consisting of one (1) Class I underground injection well (2,227 foot deep) permitted under Department Permit No. 0185898-004 discharging to a Class G-IV ground water.
Surface Water Discharge	D-001	0.11	An existing discharge to the Indian River Lagoon, Class III Marine waters, (WBID# 2963A1). The 0.110 MGD discharge is authorized at discharge location D-001 for a period not to exceed five (5) days during the Mechanical Integrity Testing (MIT) of the facility's Deep Injection Well (DIW). The permitted discharge of 8.00 MGD over five (5) days equates to an Annual Average Daily Flow of 0.11 MGD.

During Mechanical Integrity Testing (MIT) of the Deep Injection Well, a portion of the effluent is diverted to an on-site Effluent Holding Pond. The Effluent Holding Pond, constructed with internal berms to provide plug flow and eliminate short-circuiting, is used to provide temporary effluent storage prior to any potential discharge to the Indian River Lagoon (D-001) via an overflow structure.

This page intentionally left blank

SECTION 3

EXISTING FACILITY CONDITIONS

3.1 WASTEWATER MANAGEMENT SYSTEM SERVICE AREA

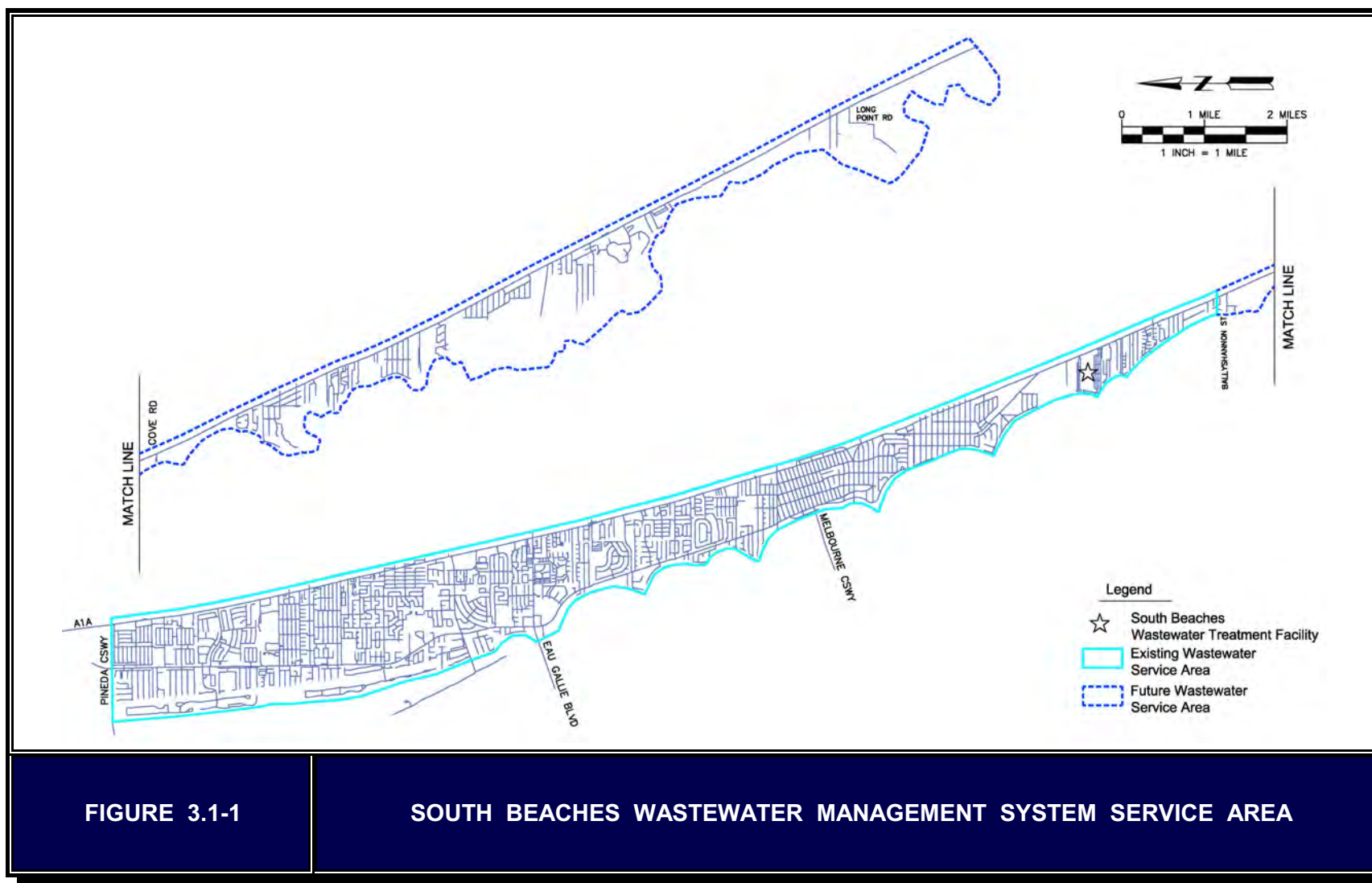
The South Beaches WWTF serves the area bounded by the Atlantic Ocean to the east, the Indian River Lagoon to the west, Patrick Air Force Base to the north and the south line of Section 28, Township 28 S, Range 28 E on the south as presented in Figure 3.1-1. The south boundary of the service area is also the north line of a barrier island included in the Coastal Barrier Resources Act (CBRA). Although depicted as a *future wastewater service area*, extension of wastewater service into the CBRA area is not likely due to the prohibition on the use of federal funds for development. The County does not currently plan to extend wastewater service south of the current limits of the service area. The City of Cocoa Beach currently serves Patrick Air Force Base and the base housing area in Satellite Beach.

The South Beaches Wastewater Management System Service Area encompasses the municipalities of Satellite Beach, Indian Harbour Beach, Indialantic, Melbourne Beach, a portion of the City of Melbourne, as well as several areas of unincorporated Brevard County. Development is suburban in nature, dominated by single-family residential subdivisions and commercial development typically associated with residential development. Natural barriers and land development barriers regulated by the Federal Government confine the South Beaches Wastewater Management System Service Area.

The wastewater is collected and conveyed by a network of County-owned lift stations, private lift stations and forcemains to the South Beaches WWTF located at 2800 South Highway A1A, Melbourne Beach, FL. The facility provides high-level treatment and the production of a high-quality effluent that is disposed of via both slow-rate public access spray irrigation (R-001) and via a Deep Injection Well (U-001).

3.2 SOUTH BEACHES WASTEWATER TREATMENT FACILITY (SBWWTF)

The South Beaches WWTF is classified as a *Secondary Treatment plus Filtration Facility* (Category I, Class A), utilizing two (2) parallel wastewater treatment plants to treat the incoming raw wastewater from the service area and meets all Class II Reliability criteria. The treatment plants include a 6.0 MGD AADF Carrousel Oxidation Ditch System (dual train) and a 2.0 MGD AADF Conventional Activated Sludge Process (aerobic/anoxic).



The oxidation ditch and conventional activated sludge process treatment systems are currently *on-line* and processing the incoming raw wastewater from the Service Area and are generating an effluent meeting all FDEP requirements. The South Beaches Wastewater Management System, Reclaimed Water System Service Areas and the South Beaches WWTF are currently permitted under FDEP Operations Permit No. FL0040622. A copy of the current FDEP Operations Permit is provided in Appendix A. An aerial view, schematic flow diagram and site plan of the South Beaches WWTF are presented in Figures 3.2-1 through 3.2-3, respectively.

The South Beaches WWTF Reclaimed Water Service Area is bounded by the Melbourne Causeway and the commercial area south of MacFarlane Street/Glengarry Avenue. The service area is 80 - 90% built-out with residential land use occupying approximately 70% of the total area. Reclaimed water is distributed to several small subdivisions to the south of the South Beaches WWTF and the Spessard Holland Golf Course. An aerial view of the South Beaches Reclaimed Water Service Area is presented in Figure 3.2-4. Effluent flow in excess of the reclaimed water demand is discharged to the Deep Injection Well (DIW) system.

The unit operations and processes currently employed at the South Beaches WWTF (2021) are divided into the following elements/categories:

Treatment Elements	Description
Primary Treatment	An automatic, continuous, self-cleaning, mechanical barscreen with a screenings compacting/dewatering screw system; a manual barscreen (back-up); and an odor control system. The grit removal system is currently out of service.
Secondary Treatment	<p>Carrousel Oxidation Ditch Treatment System (6.0 MGD AADF) This system was constructed in 1991 and is the “primary” biological treatment process at the SBWWTF. Biological oxidation of the organic wastes occurs in the dual-train oxidation ditch system operating in the extended aeration mode. The system utilizes mechanical surface aerators to provide oxygenation and mixing of the MLSS. Following treatment, the MLSS is conveyed to a pair of 102.5-foot diameter (12-foot sidewater depth) secondary clarifiers that are utilized for sedimentation of the solids. A dedicated RAS/WAS pumping station is provided.</p> <p>Conventional Activated Sludge Process System (2.0 MGD AADF) This system was constructed in 1968 and is the “secondary” biological treatment process at the SBWWTF. Biological oxidation of the organic wastes occurs utilizing a single conventional activated sludge process (5-pass plug flow configuration) with aerobic and anoxic zones. The system utilizes centrifugal blowers and coarse bubble diffusers to provide oxygenation and mixing of the MLSS. Following treatment, flow is conveyed to a single 65-foot diameter (10-foot sidewater depth) secondary clarifier for sedimentation of the solids. Dedicated RAS and WAS pumping stations are provided.</p>
Tertiary Treatment	Tertiary filtration via three (3) dual-media filters (sand and anthracite). Each tertiary filter is rated at 1.0 MGD AADF. Only effluent that is being sent to the public access reuse system is filtered.



FIGURE 3.2-1

SOUTH BEACHES WWTF - AERIAL VIEW

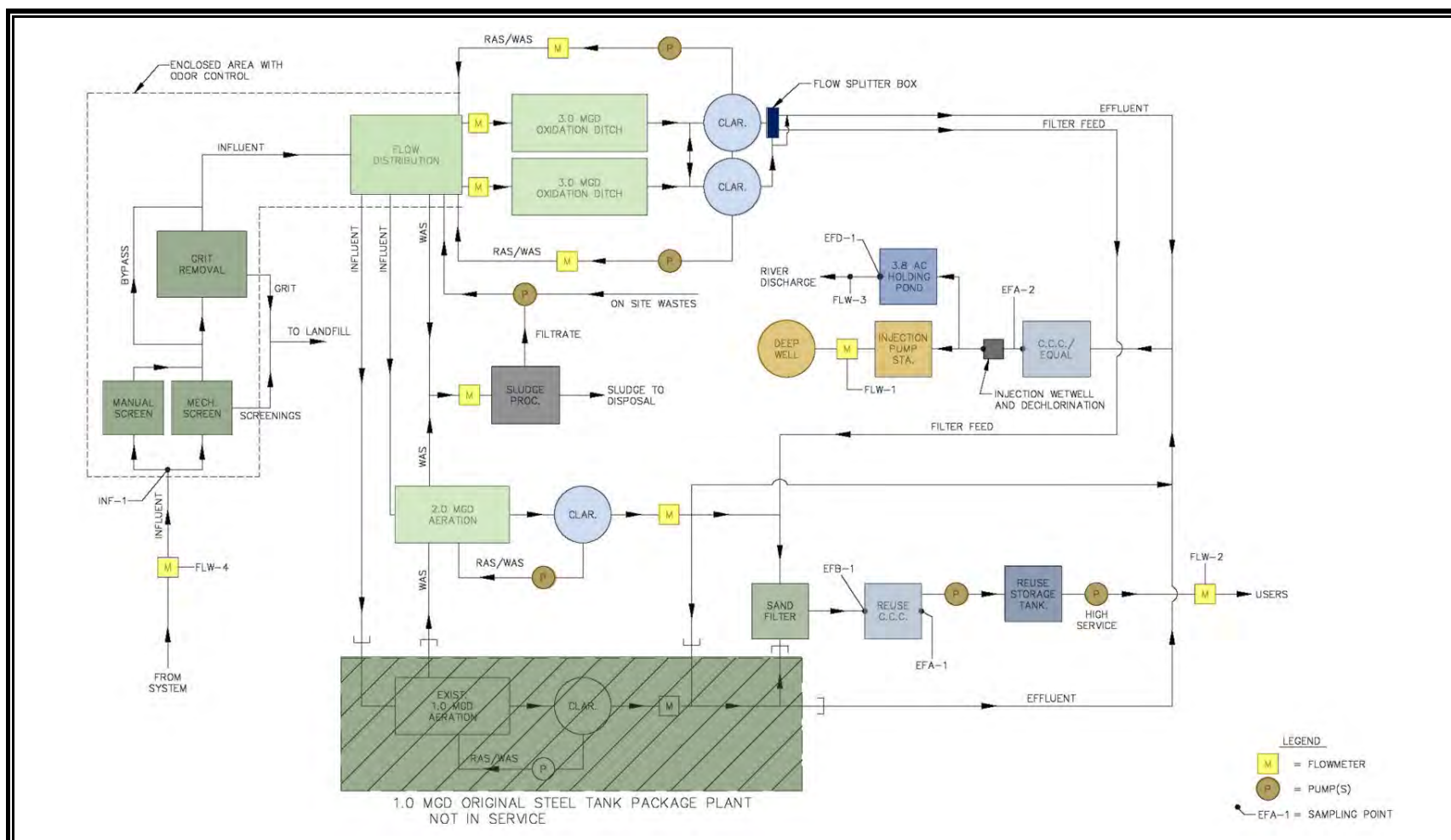


FIGURE 3.2-2

SOUTH BEACHES WASTEWATER TREATMENT FACILITY: SCHEMATIC FLOW DIAGRAM



FIGURE 3.2-3

SOUTH BEACHES WWTF: FACILITY SITE PLAN

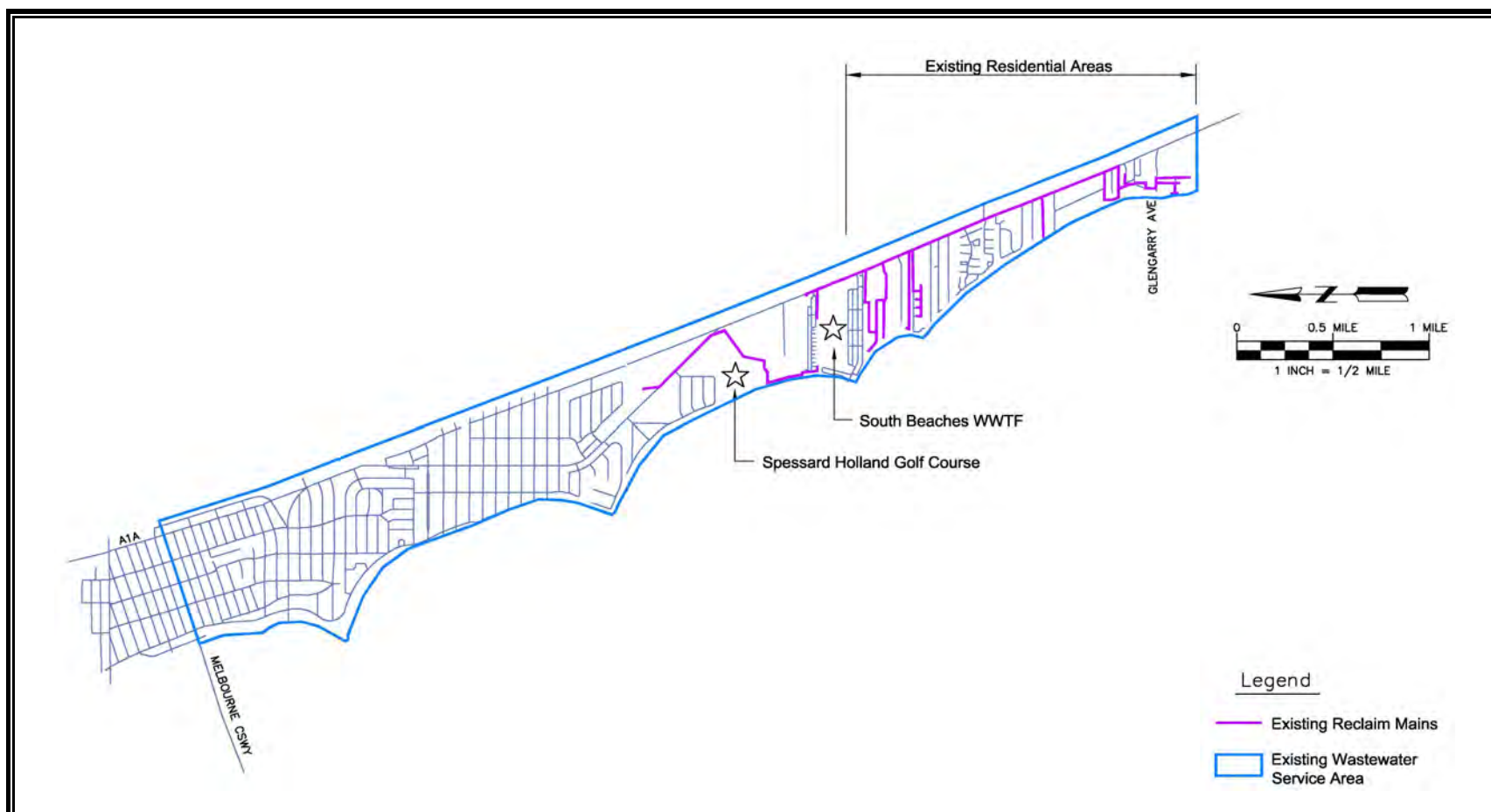


FIGURE 3.2-4

SOUTH BEACHES RECLAIMED WATER SERVICE AREA

Treatment Elements	Description
Disinfection	High-level disinfection of the effluent sent to the public access reuse and surface water discharge systems is accomplished through the use of bulk liquid NaOCl (chemical feed/storage systems) and a system of chlorine contact chambers.
Dechlorination	Dechlorination of the effluent that this discharged to the surface water disposal system, on an intermittent basis (during mechanical integrity testing of the deep injection well), is accomplished through the use of liquid sodium bisulfite (NaHSO ₃).
Sludge Treatment	Sludge treatment consisting of a sludge holding tank; air compression system with coarse bubble diffusers; sludge pumping system; and a sludge dewatering system (2 belt filter presses). Dewatered sludge is transported to the local Class I Solid Waste Landfill for final disposal.

Design and current wastewater flows at the South Beaches WWTF are as follows:

Table 3.2-1: South Beaches WWTF Design and Current Wastewater Flows		
Flow Condition	Wastewater Flow Rate (MGD)	
	Design*	Actual Operation**
Annual Average Daily Flow (AADF)	8.00	6.256
Maximum Daily Flow (MDF)	12.00	10.460
Peak Hourly Flow (PHF)	18.00	

* Total Capacity of the combined systems (Carrousel and conventional ASP)

** Actual flow conditions from Calendar Year 2020.

Influent and effluent design criteria for the South Beaches WWTF are presented below.

Table 3.2-2: South Beaches WWTF - Influent and Effluent Design Criteria			
Parameter	Units	Influent	Tertiary Effluent
CBOD ₅	mg/L	200	< 20
TSS	mg/L	200	< 5*
TKN**	mg/L	50	
TN	mg/L		< 10
TP**	mg/L	8	< 4
pH	S.U.	6.0 - 8.5	6.0 - 8.5

* For Public Access Reuse only

** Assumed influent concentrations as influent sampling not required

3.2.1 Primary Treatment System

Raw wastewater flows from the South Beaches Wastewater Management System Service Area enter the Pretreatment Building through a 30-inch DIP. The two-story Pretreatment Building consists of a cast-in-place concrete structure consisting of the following unit operations:

- Fine screening
- Grit Removal System (*not currently operational*)



Pretreatment Building

Raw wastewater flows entering the Pretreatment Building are conveyed into a box with two sluice gates. One sluice gate allows raw wastewater to be conveyed to the mechanical barscreen (step screen); the other allows wastewater to flow into a bypass channel with a manual barscreen. The screenings are collected and discharged into a dewatering screw conveyor to reduce the moisture content and volume of screenings material. Screenings are discharged into a discharge chute and deposited into a municipal dumpster at grade (landfill disposal).



Mechanical Barscreen

The two raw wastewater influent channels converge, following the barscreens, and the screened wastewater is conveyed to the Grit Removal System (sluice gates at the ends of both channels). A single vortex-type (centrifugal) grit separator unit is used to remove grit (heavy inorganic mineral matter) from the screened wastewater stream prior to conveyance to the secondary treatment systems. The grit removal system removes the grit particles and concentrates them in a sump at the bottom of the unit. The grit is then conveyed to a grit classifier, at grade, and the dewatered grit is discharged into a municipal dumpster (landfill disposal).



Grit Removal System

Screened and dewatered wastewater is conveyed, in a covered channel, to the west side of the Pretreatment Building. Adjustable weirs are then used to divert the flow to each biological treatment system (Carrousel oxidation ditches and/or conventional activated sludge process) before being mixed with RAS.

Malodorous compounds generated within the Pretreatment Building are conveyed, via an induced draft, to an odor control system for processing.

3.2.2 Secondary Treatment System - Carrousel Oxidation Ditch System

Secondary treatment of raw, degritted wastewater, up to 6.00 MGD AADF, can be processed through the Carrousel Oxidation Ditch Treatment System (extended aeration mode). The dual oxidation ditches contain heterotrophic bacteria (suspended growth) and provide the detention time and oxygen transfer required for oxidation of the influent organic compounds, nitrification, and phosphorus uptake. Oxygenation and mixing are provided by a pair of mechanical surface aerators (100 hp) in each oxidation ditch. A portion of the flow, equal to the influent wastewater flow plus RAS, is discharged over an effluent weir structure and flows to the secondary clarifiers.



Carrousel Dual Oxidation Ditch System

Secondary clarification of the biologically treated wastewater is provided to remove MLSS, flocculated suspended solids and chemical precipitates, and to meet the effluent criteria mandated by FDEP, EPA and Class II Reliability. Secondary clarification is provided by two (2) identical 102.5-foot diameter, 12-foot sidewater depth, cast-in-place concrete clarifiers with full-surface skimmers. The settled MLSS are removed in the secondary clarifier underflow and either returned to the Flow Distribution Box as RAS or wasted to the Sludge Holding Tank as WAS.



Secondary Clarifiers - Ox. Ditch System

3.2.3 Secondary Treatment System - Conventional Activated Sludge System

Secondary treatment of raw, degritted wastewater, up to 2.00 MGD AADF, can be processed through the Conventional Activated Sludge Process Treatment System. The five-pass treatment process (aerobic/anoxic zones) contains heterotrophic bacteria (suspended growth) and provides the detention time and oxygen transfer required for oxidation of the influent



Conv. Activated Sludge Process System

organic compounds, nitrification, and phosphorus uptake. Oxygenation and mixing are provided by a system of centrifugal blowers and coarse bubble diffusers. The flow is discharged from the end of the Activated Sludge Process, through a 24-inch pipe in the wall, and flows to the secondary clarifier.

Secondary clarification of the biologically treated wastewater is provided to remove MLSS, flocculated suspended solids and chemical precipitates, and to meet the effluent criteria mandated by FDEP, EPA and Class II Reliability. Secondary clarification is provided by a single 65-foot diameter, 10-foot sidewater depth, cast-in-place concrete clarifier with full-surface skimmers. The settled MLSS are removed in the secondary clarifier underflow and either returned to the first pass in the conventional ASP system as RAS or wasted to the Sludge Holding Tank as WAS.



Secondary Clarifier - Conv. ASP System

3.2.4 Tertiary Treatment System

Tertiary filtration of the treated secondary effluent is required to ensure protection of public health and enhance the disinfection process for the effluent that is being conveyed to the reclaimed water distribution system. Effluent that is to be sent to the Deep Injection Well (DIW) does not require filtration.

Secondary effluent from the Carrousel Oxidation Ditch System can be conveyed to either the tertiary filters or the secondary effluent CCC/Equalization Tank through the clarifier flow splitter box. The splitter box has two (2) adjustable weirs that control the effluent flow. Likewise, secondary effluent from the conventional activated sludge process can also be routed to either the tertiary filters or the secondary effluent CCC/Equalization Tank.



Tertiary Filters

Tertiary filtration is accomplished through the use of three (3) dual media (sand and anthracite) filtration units each with a surface area of 14 feet x 14 feet and treatment capacity of 1.0 MGD AADF. The tertiary filters can be backwashed using one of the following methods:



Secondary Effluent CCC/Equalization Tank

- Automatically based on the amount of time that the tertiary filters are in service (programable)
- Manually
- Through the use of high-level floats in the filtration system

Backwashing operations and equipment (valves, blowers and pumps) are controlled from the control panel located within the control console in the Tertiary Filter Room and/or from the SCADA console in the Operations Building. Backwash water is stored in the Backwash Water Storage Tank and is filled with reclaimed water from the Reclaimed Water Ground Storage Tank, as needed. Two (2) submersible pumps located in the Backwash Water Storage Tank supply the water for filter backwashing operations.

Flows discharged from the Tertiary Filtration System are conveyed as follows:

Conveyed To	Purpose	Description
Backwash Water Recovery Tank	For Further Treatment	Backwash water from the tertiary filter backwashing operations is conveyed to this tank for temporary storage and equalization. The water is then conveyed, by gravity, to the In-Plant Lift Station for conveyance to the Pretreatment Building for further treatment.
Chlorine Contact Chamber (CCC)	Reclaimed Water Production	Effluent is conveyed to the Chlorine Contact Chamber (CCC) for high-level disinfection and conveyance to the Reclaimed Water Ground Storage Tank.

3.2.5 Disinfection System

From the tertiary filters, the treated effluent that is to be conveyed to the public access reuse system flows, by gravity, to cast-in-place concrete Chlorine Contact Chambers (CCCs). The CCCs provide high-level disinfection of the effluent through the application of liquid sodium hypochlorite (NaOCl) via a flow-paced system. The Chlorine Contact Chambers are designed to meet Class I Reliability Criteria. The CCC System is designed to provide a minimum of fifteen (15) minutes of contact time at PHF and thirty (30) minutes at AADF. Sodium hypochlorite is metered and mixed into the tertiary effluent and the CCC provides the contact time for the inactivation of fecal coliforms, pathogens and other microbial organisms.



Chlorine Contact Chambers (CCCs)

3.2.6 Transfer Pump Station

After high-level disinfection, the tertiary filter effluent flows to the Transfer Pump Station. The pumps convey the reclaimed water to the Reclaimed Water Ground Storage Tank (0.6 MG) for eventual conveyance to the distribution system.

Turbidity, pH and Total Residual Chlorine (TRC) are analyzed continuously and automatically at the South Beaches WWTF in accordance with the existing FDEP Operations Permit conditions and as presented below:

FDEP - Reclaimed Water Compliance Monitoring Locations	
Compliance Parameter	Carrousel BNR System
Turbidity	EFB-1 (After Filtration, prior to disinfection)
Total Residual Chlorine	EFA-1 (Following disinfection)
pH	EFA-1 (Following disinfection)

3.2.7 Reclaimed Water/Effluent Disposal System

The South Beaches WWTF effluent disposal systems, permitted by FDEP, are briefly described below:

Effluent Disposal Method	Description
Land Application System (R-001)	An existing 3.00 MGD AADF permitted capacity slow-rate public access system. R-001 is a reuse system which consists of a reclaimed water transmission/distribution system for public access spray irrigation within the Reclaimed Water Service Area. Reclaimed water is also stored in an existing stormwater retention pond system located at the Spessard Holland Golf Course that has a combined storage capacity of 4.31 MG. The 4.31 MG stormwater retention pond system consists of seven (7) ponds that are interconnected with underground culvert pipes at the golf course. The pond system has an intermittent discharge from Pond 6 to adjacent drainage features, which ultimately discharge to the Indian River Lagoon.
Underground Injection System (U-001)	An existing 9.00 MGD AADF permitted capacity Deep Injection Well (DIW) system consisting of one (1) Class I underground injection well (2,227 foot deep) permitted under Department Permit No. 0185898-004 discharging to a Class G-IV ground water.
Surface Water Discharge (D-001)	An existing 0.110 MGD AADF discharge to the Indian River Lagoon, Class III Marine waters, (WBID# 2963A1). The 0.110 MGD discharge is authorized at discharge location D-001 for a period not to exceed five (5) days during the Mechanical Integrity Testing (MIT) of the facility's Deep Injection Well (DIW). The permitted discharge of 8.00 MGD over five (5) days equates to an Annual Average Daily Flow of 0.11 MGD.

A. Public Access Reuse/Land Application System (R-001)

Reclaimed water meeting the Public Access Criteria is pumped from the Transfer Pump Station to the Reclaimed Water Ground Storage Tank (0.60 MG). The pre-stressed concrete storage tank is an *in-line equalization facility* that offers an effluent water quality buffer before it is pumped to the reclaimed water distribution system.



Reclaimed Water Ground Storage Tank

The Reclaimed Water Distribution Pump Station conveys reclaimed water from the Reclaimed Water Ground Storage Tank to the distribution system for final disposal at the following locations:

- Spessard Holland Golf Course
- A1A Condo Park
- Residential areas south of the treatment facility along SR A1A



Reclaimed (Reuse) Water Pump Station

All excess reclaimed water produced that is not pumped to the Reclaimed Water Ground Storage Tank overflows a weir and is conveyed to the Deep Injection Well (DIW) pump station for disposal.

B. Deep Injection Well System (U-001)

Treated effluent from the secondary clarifiers can be directed to the Equalization Basin/Chlorine Contact Chamber (EQB/CCC) and then to the Deep Injection Well (DIW) pump station. The EQB/CCC is designed to both enable adequate disinfection of the secondary effluent, if necessary, and also to equalize flow to the Deep Injection Well (DIW).

In addition, any reclaimed water that does not meet permit specifications will automatically shut-down the Transfer Pump Station Pumps causing the unacceptable/substandard water to be diverted to the Deep Injection Well (DIW) pump station. An alarm will sound in the Operations Building control room in the event of this substandard condition. The transfer pumps will not restart until such time that the reuse water is of acceptable quality and an Operator resets the alarm.

When the Deep Injection Well (DIW) is offline, such as for periodic Mechanical Integrity Testing (MIT), the EQB/CCC can be used to discharge treated effluent the Effluent Holding Pond and then to the Indian River Lagoon. The surface water discharge requires disinfection and dechlorination of the effluent. Sodium bisulfite can be injected into the effluent from the CCC/EQB for dechlorination purposes.

C. Surface Water Discharge (D-001)

As mentioned above, during Mechanical Integrity Testing (MIT) of the Deep Injection Well, a portion of the effluent is diverted to an on-site Effluent Holding Pond. The Effluent Holding Pond, constructed with internal berms to provide plug flow and eliminate short-circuiting, is used to provide temporary effluent storage prior to any potential discharge to the Indian River Lagoon (D-001). Sampling for analysis of Acute Whole Effluent Toxicity (AWET) must be conducted within thirty (30) days of the planned MIT.

During surface water discharges, monitoring of the following parameters is required:

- Flow Rate
- CBOD₅
- TSS
- pH
- Fecal Coliform Bacteria
- Enterococci
- Total Residual Chlorine (for disinfection and dechlorination)
- Total Nitrogen
- Total Phosphorous
- Dissolved Oxygen
- Acute Whole Effluent Toxicity (AWET)

As previously indicated, surface water discharges require disinfection (NaOCl) and dechlorination (NaHSO₃) of the effluent.

In case an emergency discharge to the Indian River Lagoon is necessary, due to the failure of the Deep Injection Well (DIW) pumps, the same operating procedures and monitoring used for the MIT are required. Discharge to the Indian River Lagoon is automatic in the event of a failure of the Deep Injection Well (DIW) and/or reuse pumps; hydraulic head in the DIW wet well increases to a point where it spills over a weir into the on-site Effluent Holding Pond. Once the Effluent Holding Pond stages up, it discharges to the Indian River Lagoon through FDEP discharge/monitoring point D-001.

3.2.8 Sludge Management System

The sludge management system at the South Beaches WWTF consists of the following infrastructure components/elements:

- Sludge Processing Building
- Sludge Holding Tank
- Sludge Holding Tank aeration and air diffusion system
- Sludge pumping system
- Belt Filter Press (BFP) sludge dewatering system
- Sludge loadout system



Sludge Processing Bldg/Sludge Holding Tank

Waste Activated Sludge (WAS) from the Carrousel Oxidation Ditch and Conventional Activated Sludge Process Treatment Systems is conveyed to the aerated Sludge Holding Tank. The Sludge Holding Tank is used to store and partially treat sludge until it can be pumped to the belt filter presses for dewatering.

Sludge feed pumps are used to convey partially stabilized sludge from the Sludge Holding Tank to the belt filter presses. Two (2) belt filter presses are utilized to dewater the sludge prior to shipment to a local Class I Solid Waste Landfill for final disposal. Dewatering reduces the volume and makes the handling and disposal of sludge easier.



Belt Filter Press

3.3 PERMITTED CAPACITY

The South Beaches WWTF (*Secondary Treatment plus Filtration*) is an 8.0 MGD AADF facility serving the County's residential and commercial areas along the barrier island as previously discussed in Article 3.1. The treatment facility removes contaminants in the raw wastewater that exert an oxygen demand (BOD_5 and nutrients) and produces a high quality reclaimed water utilized throughout the South Beaches Reclaimed Water Service Area.

The design capacity of the South Beaches WWTF is as follows:

TREATMENT FACILITY	PERMITTED FLOW CONDITION (MGD)		
	AADF	MDF*	PHF
South Beaches WWTF	8.00	12.00	18.00

The County accomplishes effluent disposal through the following FDEP-approved reuse/effluent disposal methods outlined in Operations Permit No. FL0040622: (1) Slow-rate Public Access Reuse system (R-001); (2) Surface water discharge system (D-001) to the Indian River Lagoon; and (3) Deep Injection Well (U-001)

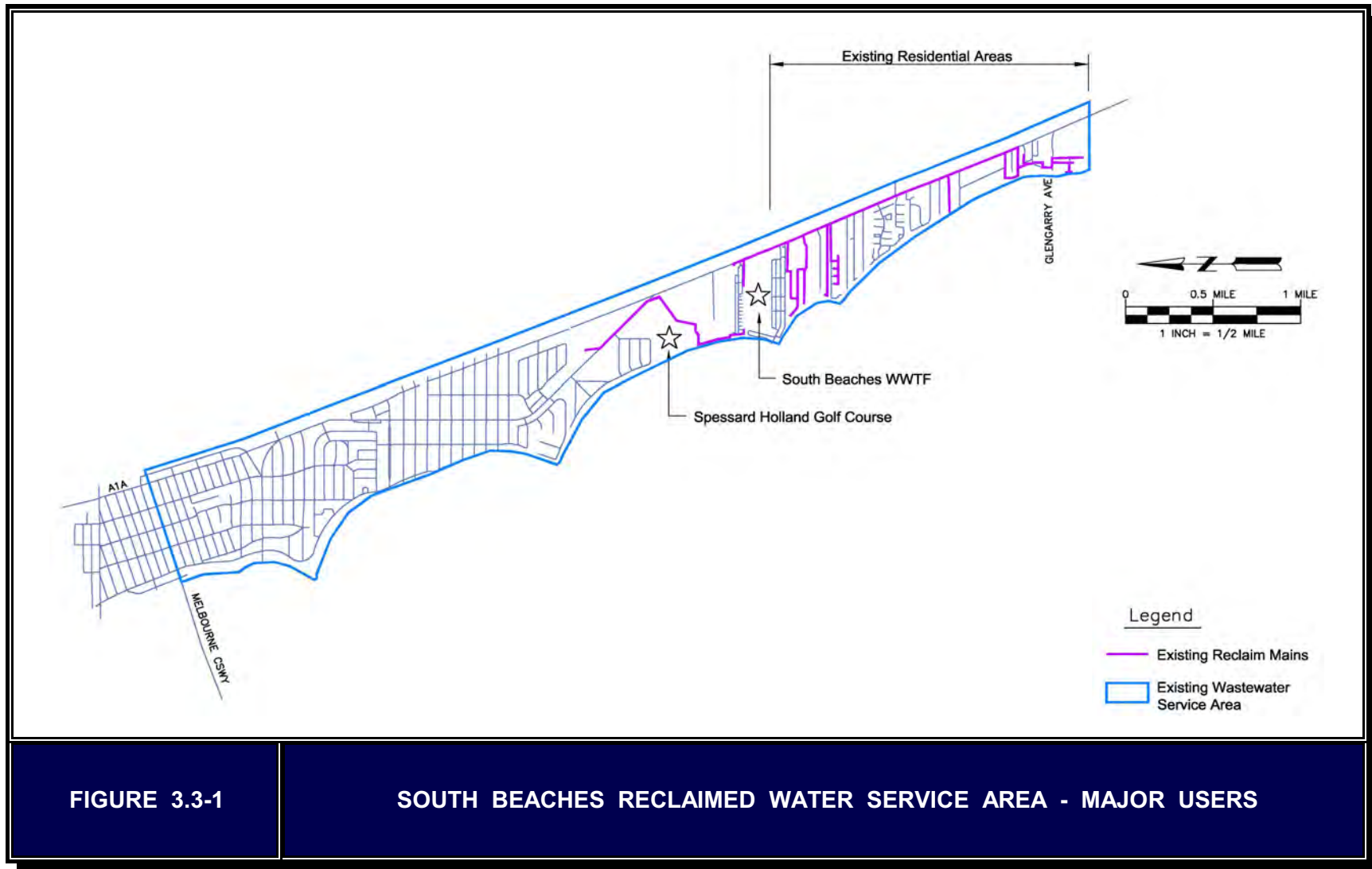
The County has, as previously described, implemented a system for the beneficial reuse of the reclaimed water produced from the South Beaches WWTF. The County began sending reclaimed water to the Spessard Holland Golf Course for public access spray irrigation in the 1980's. The reclaimed water system was expanded in the 1990's to include public access spray irrigation/land application of local residential neighborhoods. New reclaimed water sites may be added as the reclaimed water service area expands in the future. The major users of reclaimed water (using more than 0.1 MGD) in the South Beaches Reclaimed Water Service Area are identified in the table below and presented graphically in Figure 3.3-1.

Site No.	User Name	User Type	Capacity (MGD)	Area (ac)
PAA-001	Residential Areas	Residential	0.300	35.9
PAA-002	Spessard Holland Golf Course	Golf Courses	0.993	80
Total:			1.293	115.9

Reclaimed water storage is located throughout the County's South Beaches Wastewater Management Service Area as indicated in the table below.

Reclaimed Water Storage Location	No. of Units	Total Storage Volume (MG)
South Beaches WWTF Ground Storage Tank	1	0.60
Spessard Holland Golf Course Storage Ponds	7	4.31
Total Reclaimed Water Storage Capacity:	8	4.91

The current effluent disposal capacity of the South Beaches Wastewater Management System is as follows:



South Beaches WWTF Effluent Disposal System	ID	Effluent Disposal Capacity (MGD)
Slow-Rate Public Access System	R-001	3.00
Deep Injection Well (DIW) System	U-001	9.00
Surface Water Discharge (during MIT of the DIW)*	D-001	0.11
South Beaches WWTF - Total Effluent Disposal Capacity:		12.00

* Disposal Method only used when the DIW System is out of service for Mechanical Integrity Testing (not included in overall disposal capacity)

3.4 HISTORICAL WASTEWATER FLOWS

Historical wastewater flows, including monthly ADF flows, three-month ADF flows and annual ADF flows, for the South Beaches WWTF for Calendar Years 2015 - 2020) are presented in Table 3.4-1 and are plotted as a function of time in Figures 3.4-1 through 3.4-3, respectively. Historical annual variations in wastewater flow (Calendar Years 2016 - 2020) are presented below in tabular form and graphically in Figure 3.4-4.

Calendar Year	AADF (MGD)	Max Month Flow (MGD)	Maximum 3-Month ADF		Maximum 3-Month ADF to AADF Ratio	Maximum Month Peaking Factor
			Month	Flow (MGD)		
2016	6.997	9.030	November	7.705	1.101	1.291
2017*	7.048	11.884	November	9.937	1.410	1.686
2018	5.907	6.711	January	7.002	1.185	1.136
2019	6.402	7.317	December	6.922	1.081	1.143
2020	6.256	7.626	November	7.101	1.135	1.219
Five-Year Average Flow Ratios/Factors:					1.183	1.295
Max Flow Ratios Adjusted to Exclude Hurricane Irma Effects					1.126	1.197

The ratio of the maximum 3-month ADF to AADF averaged 1.183 and was found to vary over the five-year period (1.081 - 1.410). Likewise, the maximum month peaking factor averaged 1.295 and was also found to vary over the five-year period (1.136 - 1.686). The high ratios in 2017 were due to the effects of Hurricane Irma. Excluding the effects of Hurricane Irma, the adjusted Maximum 3-Month ADF to AADF and Maximum Month Peaking Factors are 1.126 and 1.197.

Table 3.4-1: South Beaches WWTF - Historical Wastewater Flows

Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2015	6.529	6.431	6.776
FEBRUARY	2015	6.876	6.559	6.746
MARCH	2015	6.196	6.534	6.728
APRIL	2015	6.417	6.496	6.746
MAY	2015	6.443	6.352	6.728
JUNE	2015	6.593	6.484	6.755
JULY	2015	7.241	6.759	6.779
AUGUST	2015	7.629	7.154	6.860
SEPTEMBER	2015	8.202	7.690	6.925
OCTOBER	2015	7.261	7.697	6.846
NOVEMBER	2015	6.534	7.332	6.850
DECEMBER	2015	6.698	6.831	6.885
JANUARY	2016	7.105	6.779	6.933
FEBRUARY	2016	7.250	7.018	6.964
MARCH	2016	6.561	6.972	6.994
APRIL	2016	6.418	6.743	6.995
MAY	2016	7.194	6.724	7.057
JUNE	2016	7.516	7.043	7.134
JULY	2016	6.705	7.138	7.089
AUGUST	2016	6.178	6.800	6.968
SEPTEMBER	2016	7.773	6.885	6.933
OCTOBER	2016	9.150	7.700	7.090
NOVEMBER	2016	6.312	7.745	7.072
DECEMBER	2016	5.989	7.150	7.013

Table 3.4-1: South Beaches WWTF - Historical Wastewater Flows (Cont'd)

Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2017	5.482	5.928	6.877
FEBRUARY	2017	5.755	5.742	6.753
MARCH	2017	5.507	5.581	6.665
APRIL	2017	5.580	5.614	6.595
MAY	2017	5.524	5.537	6.456
JUNE	2017	6.563	5.889	6.377
JULY	2017	6.923	6.337	6.395
AUGUST	2017	6.944	6.810	6.459
SEPTEMBER	2017	9.835	7.901	6.630
OCTOBER	2017	11.884	9.554	6.858
NOVEMBER	2017	8.091	9.937	7.006
DECEMBER	2017	6.421	8.799	7.042
JANUARY	2018	6.494	7.002	7.127
FEBRUARY	2018	5.850	6.255	7.135
MARCH	2018	5.656	6.000	7.147
APRIL	2018	5.676	5.727	7.155
MAY	2018	6.594	5.975	7.244
JUNE	2018	6.521	6.264	7.241
JULY	2018	6.711	6.609	7.223
AUGUST	2018	6.063	6.432	7.150
SEPTEMBER	2018	5.456	6.077	6.785
OCTOBER	2018	5.366	5.629	6.242
NOVEMBER	2018	5.173	5.332	5.998
DECEMBER	2018	5.306	5.282	5.906

Table 3.4-1: South Beaches WWTF - Historical Wastewater Flows (Cont'd)

Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2019	5.490	5.323	5.822
FEBRUARY	2019	6.771	5.856	5.899
MARCH	2019	6.351	6.204	5.957
APRIL	2019	5.910	6.344	5.976
MAY	2019	6.406	6.223	5.960
JUNE	2019	6.127	6.148	5.928
JULY	2019	5.447	5.993	5.822
AUGUST	2019	7.023	6.199	5.902
SEPTEMBER	2019	6.555	6.342	5.994
OCTOBER	2019	7.317	6.965	6.156
NOVEMBER	2019	6.706	6.859	6.284
DECEMBER	2019	6.742	6.922	6.404
JANUARY	2020	5.940	6.463	6.441
FEBRUARY	2020	5.694	6.125	6.352
MARCH	2020	5.264	5.632	6.261
APRIL	2020	5.642	5.533	6.239
MAY	2020	5.819	5.575	6.190
JUNE	2020	6.735	6.065	6.240
JULY	2020	6.741	6.432	6.348
AUGUST	2020	5.963	6.480	6.260
SEPTEMBER	2020	6.480	6.395	6.254
OCTOBER	2020	7.196	6.547	6.243
NOVEMBER	2020	7.626	7.101	6.320
DECEMBER	2020	5.967	6.930	6.256

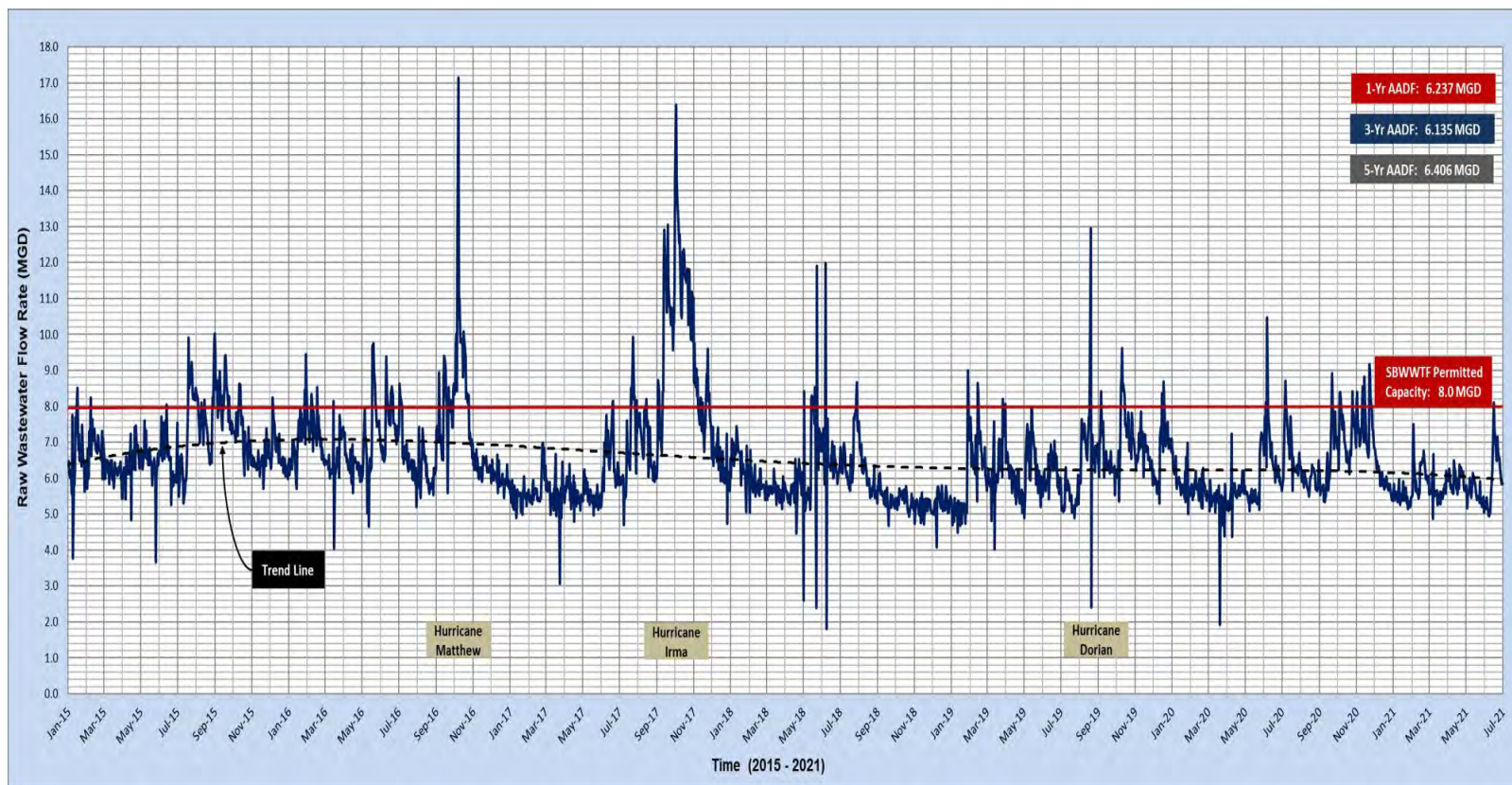


FIGURE 3.4-1

SOUTH BEACHES WWTF: HISTORICAL WASTEWATER FLOWS (ADF)



FIGURE 3.4-2

SOUTH BEACHES WWTF: HISTORICAL WASTEWATER FLOWS (3-MONTH ADF)

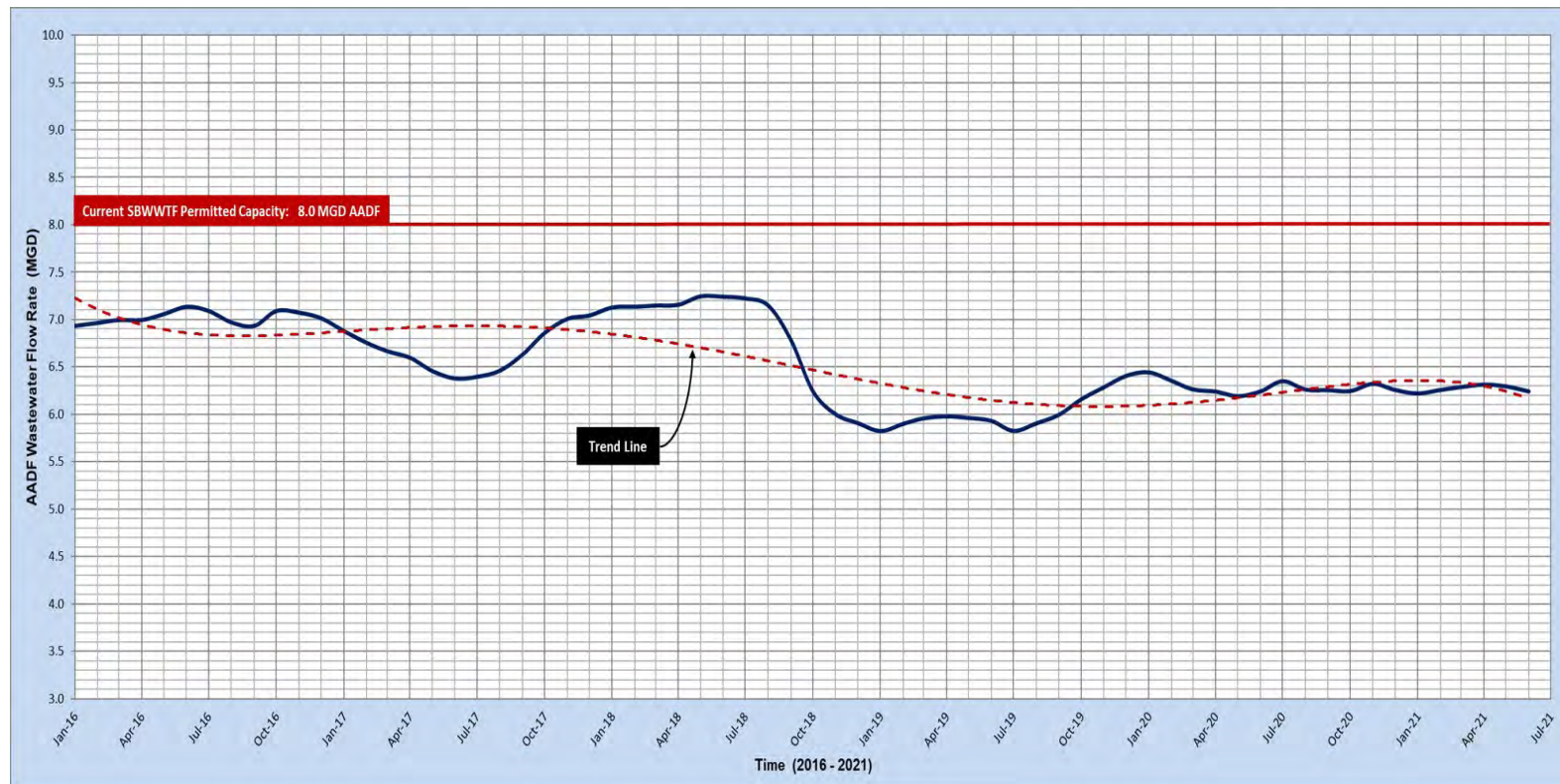


FIGURE 3.4-3

SOUTH BEACHES WWTF: HISTORICAL WASTEWATER FLOWS (AADF)

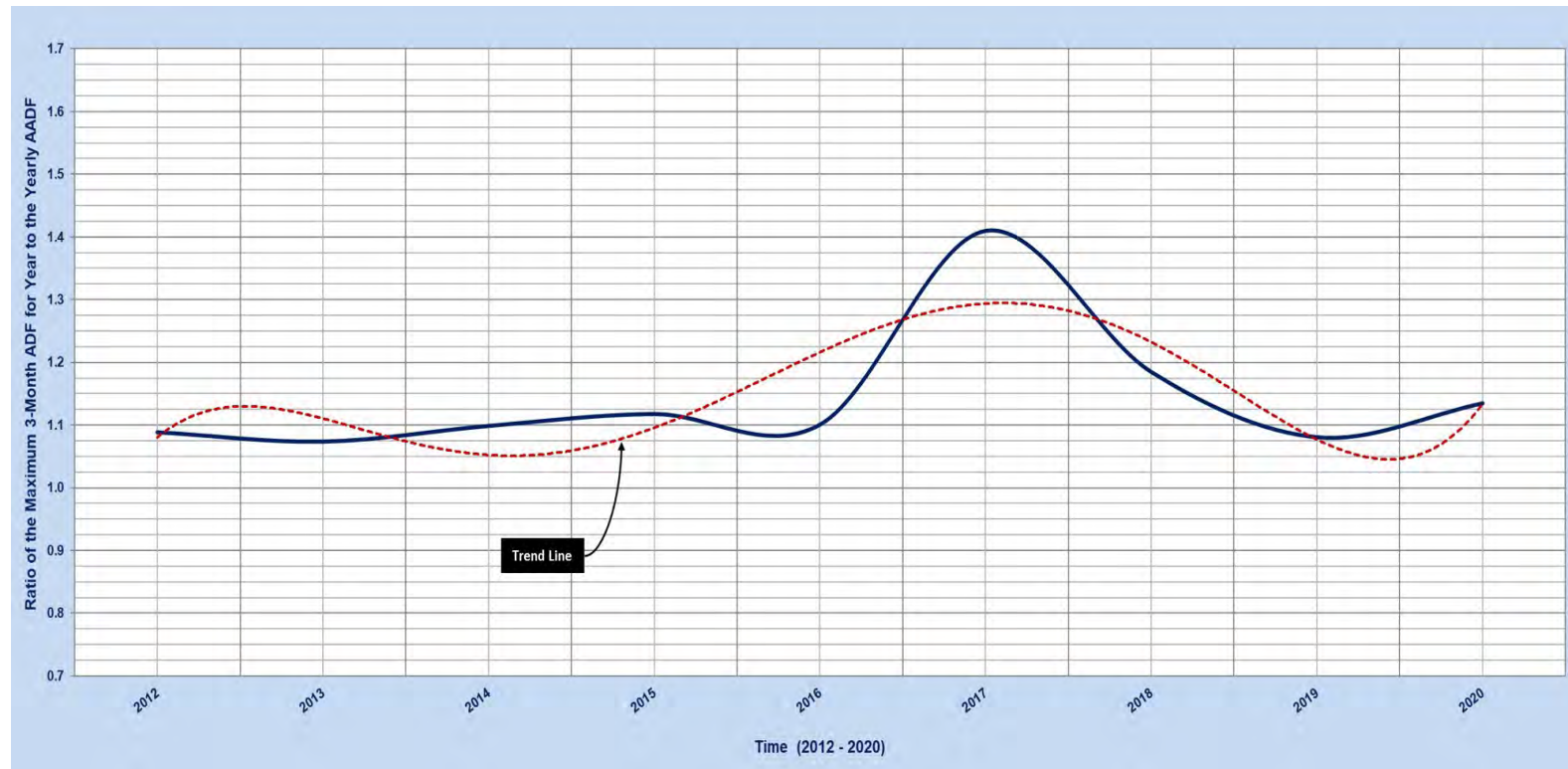


FIGURE 3.4-4

SOUTH BEACHES WWTF: ANNUAL VARIATIONS IN FLOW

A review of the historical raw wastewater flows to the South Beaches WWTF, during the past five (5) years and in the last twelve (12) months, are synopsized in the table below.

Raw Wastewater Flow Condition	South Beaches WWTF Raw Wastewater Flow (MGD)	
	Jan 2016 - Dec 2020	Calendar Year 2020
Average Daily Flow	6.525	6.256
Maximum Day Flow	17.130	10.460
Minimum Day Flow	1.820	1.920
Monthly ADF Range	5.173 - 11.884	5.264 - 7.626
3-Month ADF Range	5.282 - 9.937	5.533 - 7.101
AADF Range (monthly rolling average)	5.821 - 7.244	6.190 - 6.441
% of Permitted Facility Capacity (ADF)	81.6	78.2

The South Beaches WWTF raw wastewater flows, during the last 5-Year period, were approximately 81.6% of the permitted capacity of the facility. The raw wastewater flow treated at the facility during Calendar Year 2020 was approximately 78.2% of the permitted capacity of the facility. Thus, flow rates are below the facility's permitted capacity (8.0 MGD AADF) and the South Beaches WWTF is capable of handling the raw wastewater hydraulic loadings anticipated over the 20-year planning horizon.

3.5 FACILITY EFFLUENT FLOWS

As previously indicated in Section 3.2.7, treated effluent from the South Beaches WWTF can be discharged to any of the three (3) FDEP-permitted disposal systems:

Effluent Disposal System	Effluent Disposal Capacity (MGD AADF)
Land Application System (R-001)	3.00
Underground Injection System (U-001)	9.00
Surface Water Discharge (D-001)	0.11

The South Beaches WWTF effluent flows, by disposal system (R-001, U-001 and D-001), on a monthly and annual basis, for the period from Jan 2016 - Dec 2020 are presented in Table 3.5-1 and graphically (ADF and AADF) in Figures 3.5-1 through 3.5-6, respectively.

Table 3.5-1: South Beaches WWTF - Effluent Disposal (2016 - 2020)			
Month/Year	Public Access Reuse System Flow - R-001 (MGD)	Deep Injection Well (DIW) - U-001 (MGD)	Surface Water Discharge Flow to the IRL - D-001 (MGD)
Jan 2016	1.221	5.240	0.000
Feb 2016	1.240	5.095	0.000
Mar 2016	1.140	4.671	0.000
Apr 2016	1.388	4.365	0.000
May 2016	1.609	4.892	0.000
Jun 2016	1.619	5.136	0.000
Jul 2016	1.707	4.297	0.000
Aug 2016	1.527	3.914	0.000
Sep 2016	1.261	5.731	0.000
Oct 2016*	1.076	6.750	0.034
Nov 2016	1.406	4.478	0.000
Dec 2016	1.358	3.875	0.000
2016 Average	1.379	4.870	0.003
Jan 2017	1.271	3.795	0.000
Feb 2017	1.333	3.973	0.000
Mar 2017	1.507	3.523	0.083
Apr 2017	1.618	3.314	0.000
May 2017	1.657	3.349	0.000
Jun 2017	1.531	4.655	0.000
Jul 2017	1.539	5.054	0.000
Aug 2017	1.505	5.205	0.000
Sep 2017	0.989	6.852	1.023
Oct 2017**	0.426	8.129	2.091
Nov 2017	1.080	6.251	0.000
Dec 2017	1.049	4.780	0.000
2017 Average	1.292	4.907	0.266

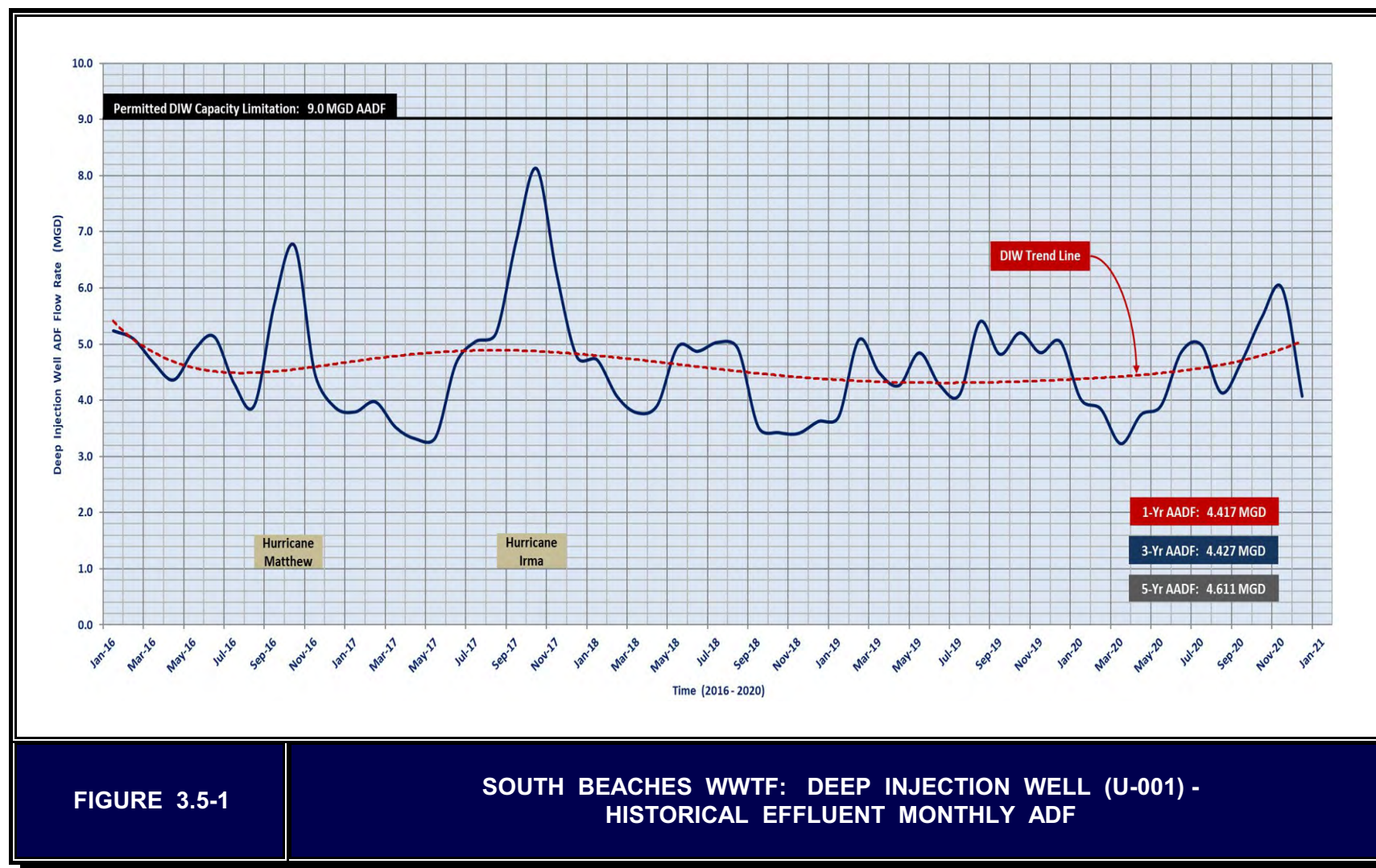
Table 3.5-1: South Beaches WWTF - Effluent Disposal (2016 - 2020)			
Month/Year	Public Access Reuse System Flow - R-001 (MGD)	Deep Injection Well (DIW) - U-001 (MGD)	Surface Water Discharge Flow to the IRL - D-001 (MGD)
Jan 2018	1.102	4.724	0.000
Feb 2018	1.227	4.070	0.000
Mar 2018	1.330	3.778	0.000
Apr 2018	1.232	3.917	0.000
May 2018	1.158	4.951	0.000
Jun 2018	1.252	4.874	0.000
Jul 2018	1.292	5.035	0.000
Aug 2018	1.515	4.917	0.000
Sep 2018	1.560	3.532	0.000
Oct 2018	1.521	3.427	0.000
Nov 2018	1.478	3.412	0.000
Dec 2018	1.341	3.627	0.000
2018 Average	1.334	4.189	0.000
Jan 2019	1.304	3.712	0.000
Feb 2019	1.110	5.079	0.000
Mar 2019	1.197	4.495	0.000
Apr 2019	1.226	4.268	0.000
May 2019	1.192	4.846	0.000
Jun 2019	1.250	4.277	0.000
Jul 2019	1.343	4.105	0.000
Aug 2019	1.079	5.398	0.000
Sep 2019	1.066	4.820	0.000
Oct 2019	1.288	5.203	0.000
Nov 2019	1.148	4.850	0.000
Dec 2019	0.935	5.043	0.000
2019 Average	1.178	4.675	0.000

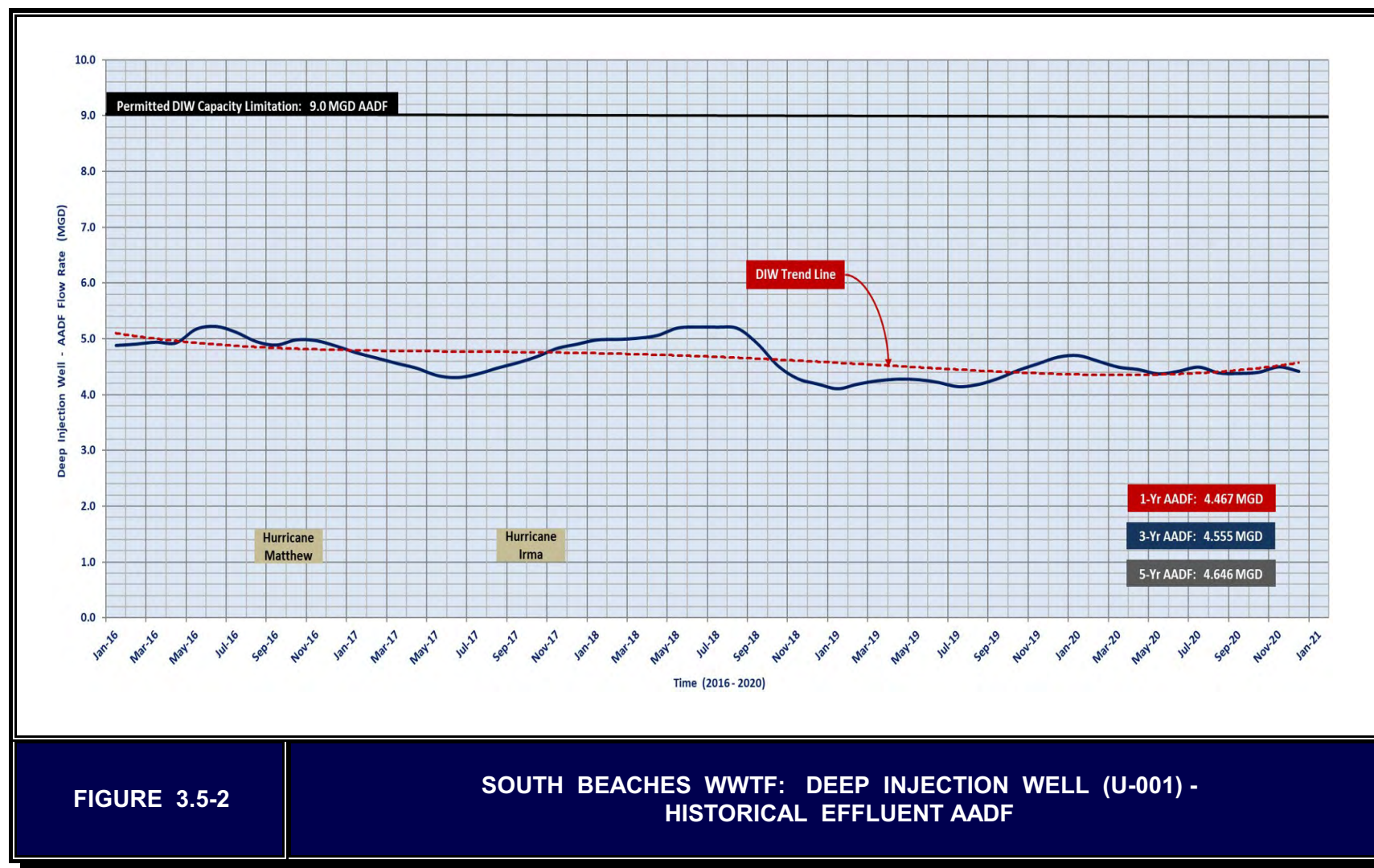
Table 3.5-1: South Beaches WWTF - Effluent Disposal (2016 - 2020)			
Month/Year	Public Access Reuse System Flow - R-001 (MGD)	Deep Injection Well (DIW) - U-001 (MGD)	Surface Water Discharge Flow to the IRL - D-001 (MGD)
Jan 2020	1.164	4.029	0.000
Feb 2020	1.203	3.848	0.000
Mar 2020	1.542	3.229	0.000
Apr 2020	1.380	3.746	0.000
May 2020	1.372	3.910	0.000
Jun 2020	1.259	4.860	0.000
Jul 2020	1.257	4.987	0.000
Aug 2020	1.410	4.135	0.000
Sep 2020	1.527	4.699	0.000
Oct 2020	1.834	5.483	0.000
Nov 2020	2.138	5.998	0.000
Dec 2020	2.662	4.074	0.000
2020 Average	1.562	4.417	0.000

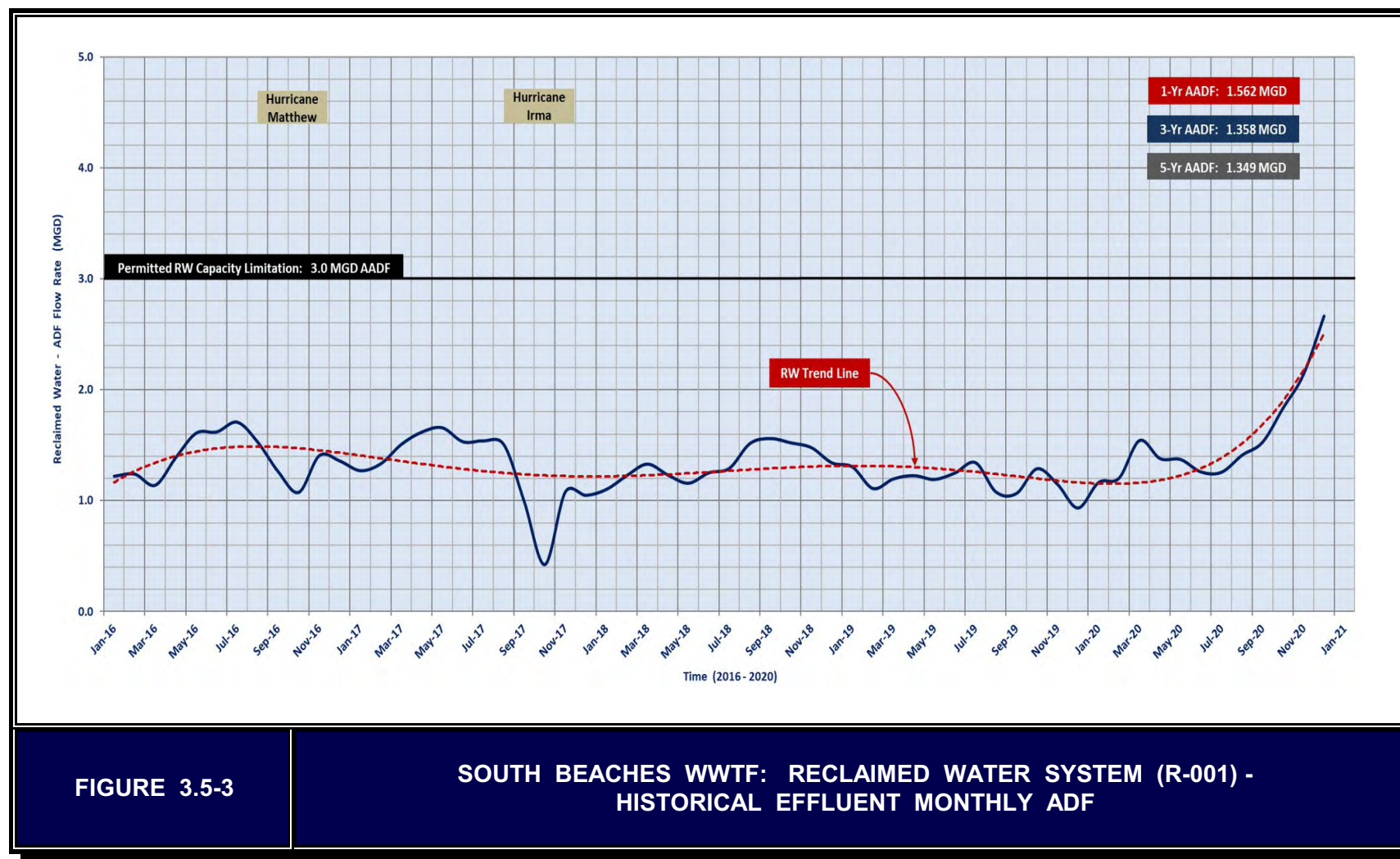
Effluent Disposal Percentage by Disposal System (2016 - 2020)						
Calendar Year	Effluent Disposal System Flow (MGD AADF)			Overall Effluent Disposal (%)		
	Public Access Reuse System - PAR (R-001)	Deep Injection Well (U-001)	Surface Water Discharge (D-001)	PAR (R-001)	DIW (U-001)	SW Discharge (D-001)
2016*	1.379	4.870	0.003	22.1%	77.9%	0.0%
2017**	1.292	4.907	0.266	20.0%	75.9%	4.1%
2018	1.334	4.189	0.000	24.2%	75.8%	0.0%
2019	1.178	4.675	0.000	20.1%	79.9%	0.0%
2020	1.562	4.417	0.000	26.1%	73.9%	0.0%
5-Yr Avg.	1.349	4.612	0.054	22.5%	76.7%	0.8%

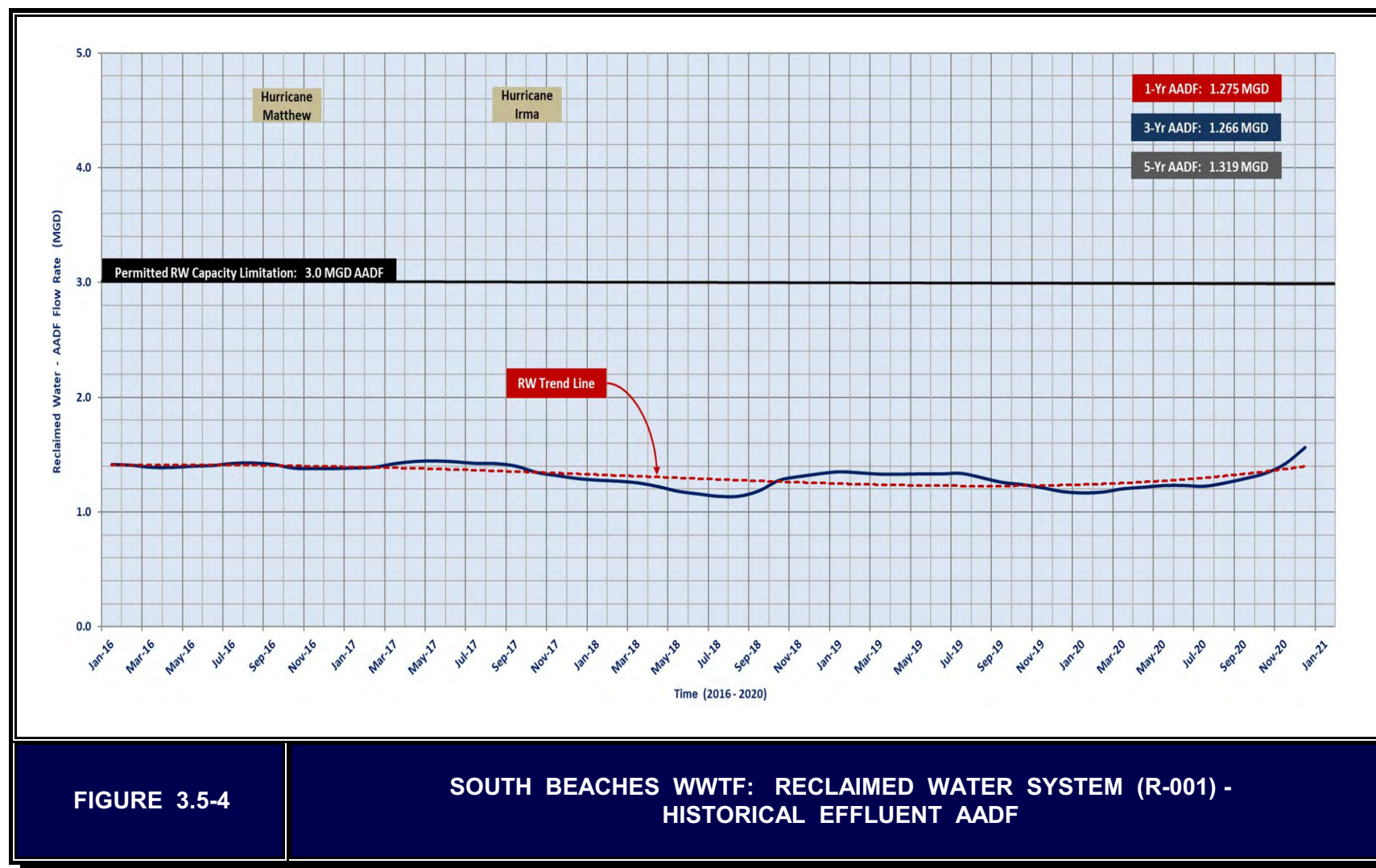
* Surface Water Discharge due to Hurricane Matthew

** Surface Water Discharge due to Hurricane Irma









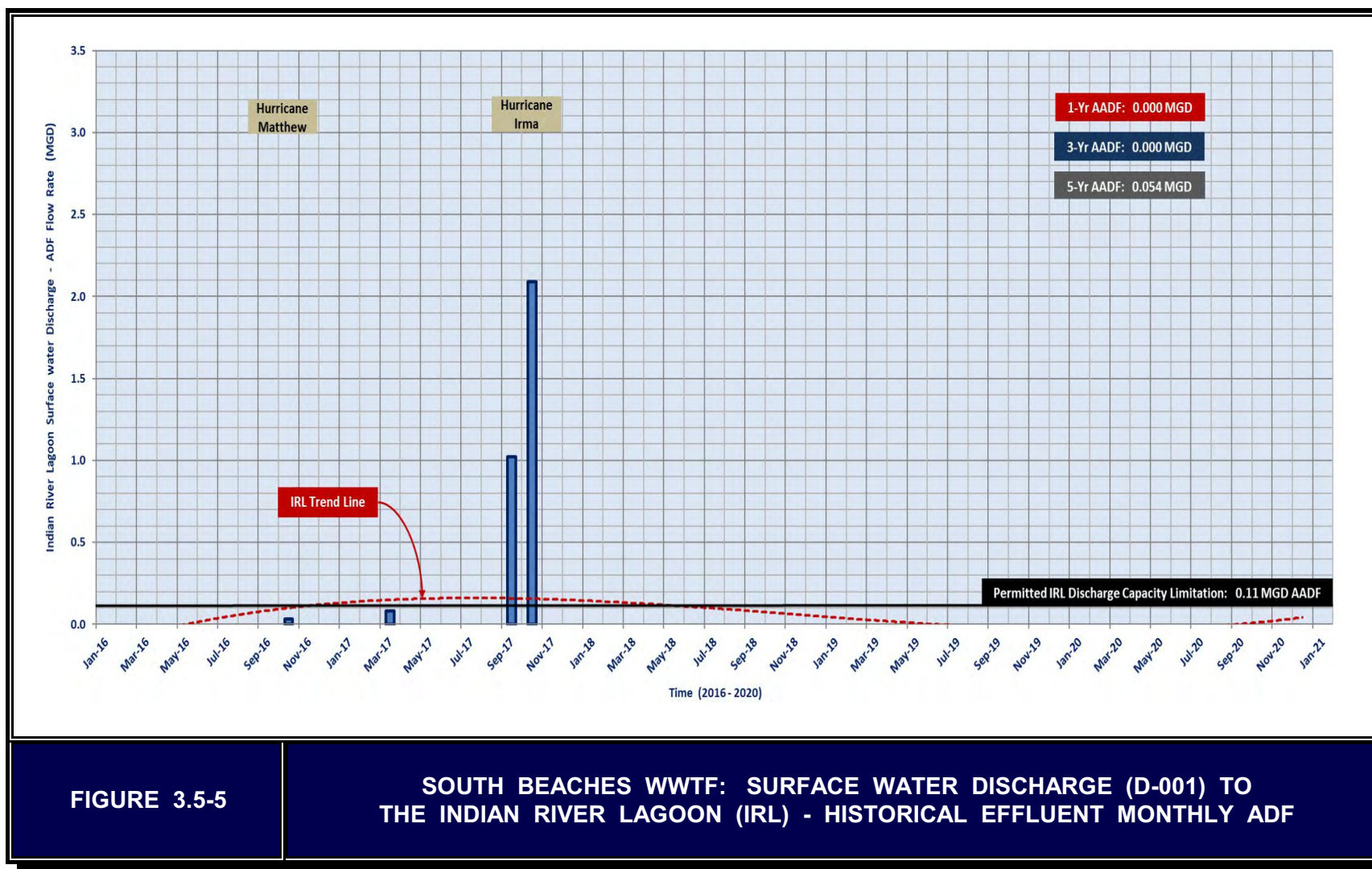


FIGURE 3.5-5

SOUTH BEACHES WWTF: SURFACE WATER DISCHARGE (D-001) TO THE INDIAN RIVER LAGOON (IRL) - HISTORICAL EFFLUENT MONTHLY ADF

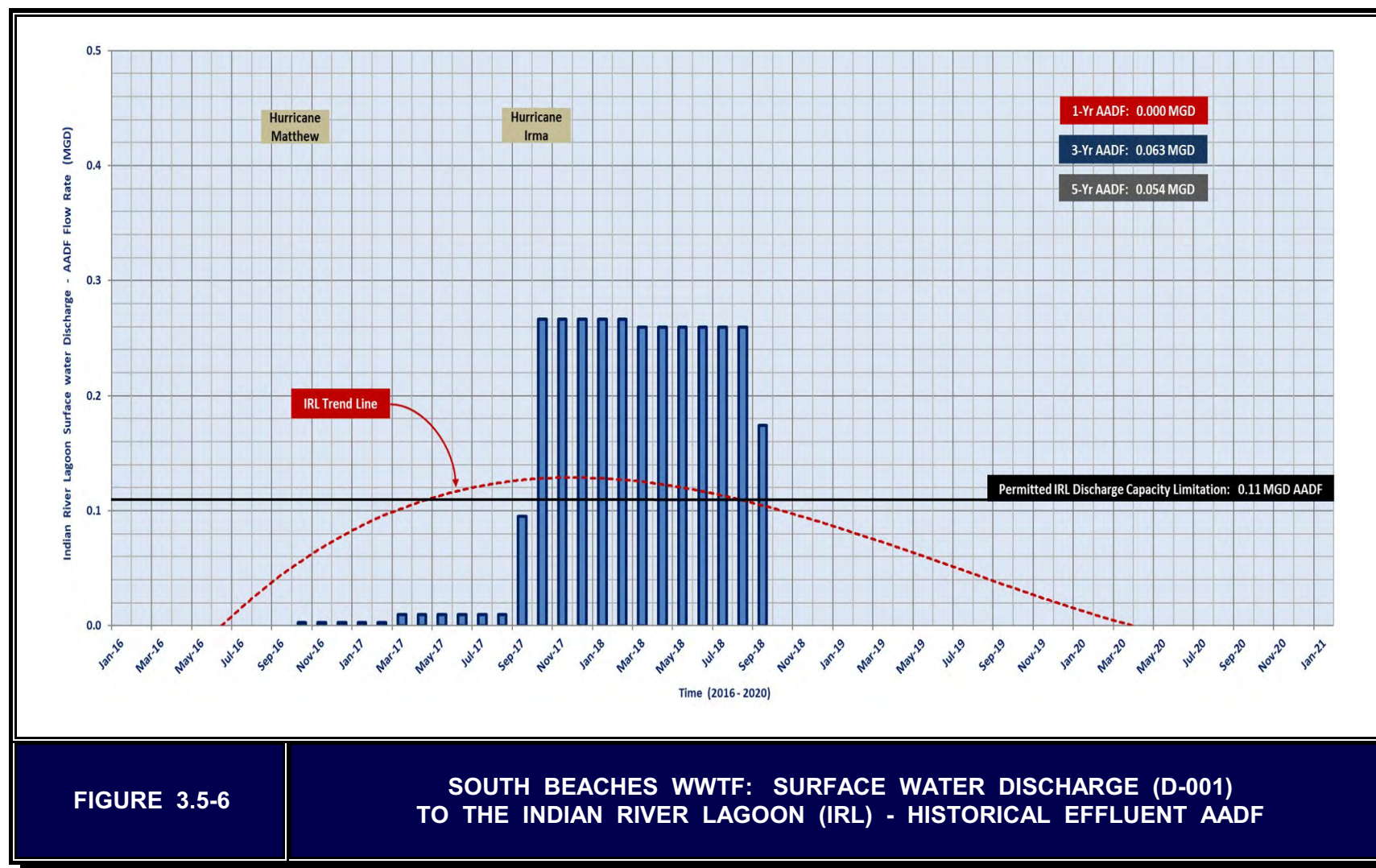


FIGURE 3.5-6

**SOUTH BEACHES WWTF: SURFACE WATER DISCHARGE (D-001)
TO THE INDIAN RIVER LAGOON (IRL) - HISTORICAL EFFLUENT AADF**

The South Beaches WWTF has only reused approximately 22.5% of the facility's annual average effluent flow over the five-year period from 2016 - 2020. Approximately 0.8% of the effluent flow over this five year period were surface water discharges from the treatment facility to the Indian River Lagoon; these mainly due to discharges occurring from the intense rainfall events associated with tropical events (Hurricanes Matthew and Irma) and mechanical integrity testing of the Deep Injection Well (DIW). The majority of the South Beaches WWTF effluent (76.7%) was conveyed to the Deep Injection Well (DIW) for ultimate disposal.

3.6 FACILITY EFFLUENT QUALITY

Reclaimed water quality (CBOD₅, TSS, TN, TP, pH and Fecal Coliform) generated by the South Beaches WWTF, for the last five calendar years (2016 - 2020), is presented in Table 3.6-1. The South Beaches WWTF treatment system efficiencies, for the same five-year period are presented below:

South Beaches WWTF - Treatment System Efficiency (2016 - 2020)*							
Parameter	Influent Conc. (mg/L)	Influent Loading (lb/day)	Effluent Conc. (mg/L)	Effluent Load (lb/day)	Parameter Removal (lb/day)	Percent Removal	
						Design	Actual
CBOD ₅	39	2,111	1.5	83	2,029	90%	96.1%
TSS	19	1,012	0.7	35	977	90%	96.5%
TN**	50	2,721	7.8	422	2,299	80%	84.5%
TP**	8	435	1.8	99	336	70%	77.3%

* AADF (2016 - 2020): 6.525 MGD

** Assumed Influent Concentration (testing not required by permit)

3.6.1 CBOD₅ Treatment (Removal) Efficiency

Over the last five-year period (Calendar Years 2016 - 2020), actual influent CBOD₅ concentrations have been significantly below the values used in the design of the facility (200 mg/L). The South Beaches WWTF has the ability to operate efficiently between 50 mg/L and 400 mg/L by adjusting process operations.

The effluent CBOD₅ concentrations are below the design values used for the facility, typical AWT standards (< 5 mg/L), and meet the limitations identified in the current FDEP Operations Permit.

Table 3.6-1: South Beaches WWTF - Reclaimed Water Quality (2016 - 2020)						
Month/Year	CBOD ₅ (mg/L)	TSS (mg/L)	TN (mg/L)	TP (mg/L)	pH (S.U.)	Fecal (#/100 mL)
Permit Limit	20	5	---	---	6.0 - 8.5	25
Jan 2016	2.0	0.6	4.4	1.3	7.30	< 1
Feb 2016	1.5	0.8	0.8	1.3	7.21	< 1
Mar 2016	1.9	0.9	10.8	3.2	7.05	< 1
Apr 2016	1.7	0.8	10.5	1.5	7.01	< 1
May 2016	2.0	0.7	6.0	1.0	7.18	< 1
Jun 2016	1.9	0.5	4.9	1.7	7.39	< 1
Jul 2016	1.4	0.5	6.4	2.0	7.43	< 1
Aug 2016	1.7	0.5	2.7	2.0	7.42	< 1
Sep 2016	1.3	0.5	8.8	1.9	7.25	< 1
Oct 2016	1.6	0.5	5.2	1.4	7.26	< 1
Nov 2016	1.4	0.5	8.1	1.9	7.21	< 1
Dec 2016	1.4	0.6	13.8	2.3	7.21	< 1
2016 Avg.	1.6	0.6	6.9	1.8	7.24	< 1
Jan 2017	1.7	0.5	8.3	2.5	7.17	< 1
Feb 2017	2.1	0.5	4.3	2.5	7.37	< 1
Mar 2017	2.2	0.6	17.5	2.7	7.24	< 1
Apr 2017	1.7	0.7	5.8	2.4	7.22	< 1
May 2017	1.8	0.6	10.6	2.6	7.17	< 1
Jun 2017	2.1	0.5	12.2	2.2	7.35	< 1
Jul 2017	4.6	0.5	2.1	1.3	7.33	< 1
Aug 2017	2.7	0.6	4.9	1.5	7.30	< 1
Sep 2017	1.3	0.5	4.0	0.7	7.47	< 1
Oct 2017	1.0	0.5	3.6	0.2	7.51	< 1
Nov 2017	1.1	0.5	5.2	2.5	7.33	< 1
Dec 2017	1.1	0.5	8.4	1.7	7.35	< 1
2017 Avg.	1.9	0.6	7.2	1.9	7.32	< 1

Table 3.6-1: South Beaches WWTF - Reclaimed Water Quality (2016 - 2020)						
Month/Year	CBOD ₅ (mg/L)	TSS (mg/L)	TN (mg/L)	TP (mg/L)	pH (S.U.)	Fecal (#/100 mL)
Permit Limit	20	5	---	---	6.0 - 8.5	25
Jan 2018	1.2	0.7	7.3	1.9	7.31	< 1
Feb 2018	1.1	0.5	8.8	2.2	7.11	< 1
Mar 2018	1.5	0.5	7.8	2.3	7.08	< 1
Apr 2018	1.2	0.5	9.3	2.2	7.14	< 1
May 2018	1.5	0.6	6.0	2.1	7.41	< 1
Jun 2018	1.4	0.5	6.5	1.4	7.31	< 1
Jul 2018	1.9	0.5	5.0	1.6	7.34	< 1
Aug 2018	1.5	0.5	7.7	1.5	7.35	< 1
Sep 2018	1.5	0.5	4.8	1.9	7.25	< 1
Oct 2018	1.0	0.5	6.4	2.0	7.33	< 1
Nov 2018	1.5	0.5	5.3	2.0	7.32	< 1
Dec 2018	1.8	0.6	9.8	2.0	7.13	< 1
2018 Avg.	1.4	0.5	7.1	1.9	7.26	< 1
Jan 2019	1.5	0.5	10.1	2.0	7.14	< 1
Feb 2019	1.8	0.7	6.9	1.8	7.06	< 1
Mar 2019	1.5	1.0	9.8	1.9	7.14	< 1
Apr 2019	1.9	1.2	6.1	2.0	7.05	< 1
May 2019	1.2	0.8	8.1	0.9	6.87	< 1
Jun 2019	1.5	0.6	8.2	1.3	7.08	< 1
Jul 2019	1.3	3.4	9.9	1.2	7.15	< 1
Aug 2019	1.1	1.2	7.1	1.2	7.38	< 1
Sep 2019	1.1	0.5	9.1	1.6	7.41	< 1
Oct 2019	1.3	0.5	9.6	2.0	7.55	< 1
Nov 2019	1.3	0.6	8.6	1.5	7.38	< 1
Dec 2019	2.1	0.6	9.6	2.1	7.31	< 1
2019 Avg.	1.5	1.0	8.6	1.6	7.21	< 1

Table 3.6-1: South Beaches WWTF - Reclaimed Water Quality (2016 - 2020)						
Month/Year	CBOD ₅ (mg/L)	TSS (mg/L)	TN (mg/L)	TP (mg/L)	pH (S.U.)	Fecal (#/100 mL)
Permit Limit	20	5	---	---	6.0 - 8.5	25
Jan 2020	1.3	0.5	9.3	1.9	7.23	< 1
Feb 2020	1.0	0.5	14.0	2.3	7.31	< 1
Mar 2020	1.1	0.6	1.2	2.5	7.32	< 1
Apr 2020	1.0	0.6	12.4	2.4	7.34	< 1
May 2020	1.0	0.5	12.0	2.0	7.34	< 1
Jun 2020	1.0	0.5	11.3	1.8	7.38	< 1
Jul 2020	1.2	0.5	7.6	1.0	7.43	< 1
Aug 2020	1.1	0.5	10.1	2.0	7.38	< 1
Sep 2020	1.2	0.7	7.9	1.8	7.37	< 1
Oct 2020	1.1	0.5	9.1	1.3	7.46	< 1
Nov 2020	1.3	0.7	7.2	1.5	7.36	< 1
Dec 2020	1.0	0.5	6.2	1.8	7.31	< 1
2020 Avg.	1.1	0.6	9.0	1.9	7.35	< 1
5-Year Avg.	1.5	0.7	7.8	1.8	7.28	< 1
5-Yr % Removal	96.1%	96.5%	84.5%	77.3%	---	---

The 5-Year CBOD₅ treatment (removal) efficiency averaged approximately 96.1%; which is greater than the design treatment efficiency of 90% and the minimum FDEP requirement of 85%. The CBOD₅ treatment (removal) efficiency in Calendar Year 2020 averaged 97.3% and the effluent CBOD₅ concentration from the facility has been significantly below the design value of 5 mg/L. ***Thus, the South Beaches WWTF is highly effective in removing organic wastes from the raw wastewater.***

3.6.2 TSS Treatment (Removal) Efficiency

Over the last five-year period (Calendar Years 2016 - 2020), actual influent TSS concentrations have been below the values used in the design of the facility (200 mg/L); although the facility has the ability to operate efficiently between 40 mg/L and 500 mg/L by adjusting process operations.

The effluent TSS concentrations are below the design values used for the facility, typical AWT standards (< 5 mg/L) and meet the limitations identified in the current FDEP Operations Permit.

The 5-Year TSS treatment (removal) efficiency averaged approximately 96.5%; which is greater than the design treatment efficiency of 90% and the minimum FDEP requirement of 85%. The TSS treatment (removal) efficiency in Calendar Year 2020 averaged 98.4% and the effluent TSS concentration from the facility has been significantly below the design value of 5 mg/L. ***Thus, the South Beaches WWTF is highly effective in removing suspended solids from the raw wastewater as well as those generated in the treatment process.***

3.6.3 TN Treatment (Removal) Efficiency

Over the last five-year period (Calendar Years 2016 - 2020), actual influent TKN concentrations have been in the range of values used in the design of the facility. The facility has the ability to operate efficiently between 20 mg/L and 60 mg/L by adjusting process operations.

The 5-Year TN treatment (removal) efficiency averaged approximately 84.5%; which is greater than the design treatment efficiency of 80%. More recently, the TN treatment (removal) efficiency in Calendar Year 2020 averaged 81.9% with an average effluent TN concentration of 9.0 mg/L.

However, to meet the requirements of Section 403.086(1)(c), Florida Statutes, significant infrastructure improvements and upgrades will be required at the South Beaches WWTF to meet AWT Criteria. The infrastructure improvements must be operational by July 1, 2025 and designed to reduce the effluent TN concentration below 3.0 mg/L, on a consistent basis. To meet this regulatory deadline, design of the treatment facility improvements must begin within the next twelve (12) months.

3.6.4 TP Treatment (Removal) Efficiency

Over the last five-year period (Calendar Years 2016 - 2020), actual influent TP concentrations have been in the range of values used in the design of the facility. The facility has the ability to operate efficiently between 2 mg/L and 12 mg/L by adjusting process operations and/or adding alum/polymer to the treatment system effluent (enhancing TP removal via chemical precipitation).

The 5-Year TP treatment (removal) efficiency averaged approximately 77.3%; which is greater than the design treatment efficiency of 70%. More recently, the TP treatment (removal) efficiency in Calendar Year 2020 averaged 76.8% with an average effluent TP concentration of 1.9 mg/L.

However, to meet the requirements of Section 403.086(1)(c), Florida Statutes, significant infrastructure improvements and upgrades will be required at the South Beaches WWTF to meet AWT Criteria. The infrastructure improvements must be operational by July 1, 2025 and designed to reduce the effluent TP concentration below 1.0 mg/L, on a consistent basis. To meet this regulatory deadline, design of the treatment facility improvements must begin within the next twelve (12) months.

SECTION 4

NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION PLAN

4.1 THE SOUTH BEACHES WWTF DISCHARGE ELIMINATION PLAN

The South Beaches Wastewater Treatment Facility (SBWWTF), located at 2800 South Highway A1A, Melbourne Beach, FL, 32951 is an *Secondary Wastewater plus Filtration* Facility (Category I, Class A), utilizing two (2) parallel wastewater treatment plants to treat the incoming raw wastewater from the service area and meets all Class II Reliability criteria. The facility consists of primary, secondary and tertiary treatment systems to treat the raw wastewater from the South Beaches Wastewater Collection and Transmission System. Reclaimed water storage is located throughout the service area (4.91 MG, total) including a 0.6 MG ground storage tank at the SBWWTF and 4.31 MG of storage in the Spessard Holland Golf Course stormwater pond system.

Biosolids management at the SBWWTF consists of partial aerobic digestion of the waste activated sludge (WAS) followed by dewatering of the solids through the use of a system of belt filter presses. The dewatered sludge is conveyed to a Class I solid waste landfill for ultimate disposal.

The treatment facility discharges highly treated effluent to any of three FDEP-permitted disposal systems:

- Public Access Reuse System, R-001 (3.00 MGD AADF capacity)
- Deep Injection (DIW) Well System, U-001 (9.00 MGD AADF capacity)
- Surface Water Discharge System to the Indian River Lagoon, D-001 (0.11 MGD AADF capacity). This discharge is for a period not to exceed five (5) days during the Mechanical Integrity Testing (MIT) of the facility's deep injection well.

As previously presented in Section 3.5 of this document, an analysis of facility effluent flows by disposal system, over the last five Calendar Years (2016 - 2020), was conducted with the following results:

Effluent Disposal Percentage by Disposal System (2016 - 2020)						
Calendar Year	Effluent Disposal System Flow (MGD AADF)			Overall Effluent Disposal (%)		
	Public Access Reuse System - PAR (R-001)	Deep Injection Well (U-001)	Surface Water Discharge (D-001)	PAR (R-001)	DIW (U-001)	SW Discharge (D-001)
2016*	1.379	4.870	0.003	22.06%	77.90%	0.05%
2017**	1.292	4.907	0.266	19.98%	75.90%	4.11%
2018	1.334	4.189	0.000	24.15%	75.85%	0.00%
2019	1.178	4.675	0.000	20.13%	79.87%	0.00%
2020	1.562	4.417	0.000	26.12%	73.88%	0.00%
5-Yr Avg.	1.349	4.612	0.054	22.49%	76.68%	0.83%

* Surface Water Discharges due to Hurricane Matthew

** Significant Surface Water Discharges due to Hurricane Irma

The effluent disposal analysis, over the last five calendar year period (2016 - 2020), indicates the following:

- Only 22.5% of the annual average effluent flow was reused within the South Beaches Reclaimed Water Service area via the existing slow-rate public access reuse system (R-001). This is unlikely to vary significantly in the future as there are very few additional opportunities for expansion of the reuse system as the service area is almost completely built-out.
- Approximately 0.8% of the annual average effluent flow was been disposed of through the surface water discharge system (D-001) to the Indian River Lagoon. The main discharge events were due to MIT testing of the Deep Injection Well (DIW) and the large volumes of infiltration and inflow (I/I) received at the South Beaches WWTF in 2016 and 2017 due to Hurricanes Matthew and Irma. However, it should be noted that there has not been a surface water discharge from the facility to the Indian River Lagoon since October 2017.
- The majority of the effluent disposal, approximately 76.7% of the annual average effluent flow was disposed of through the Deep Injection Well system (U-001) at the South Beaches WWTF. This is due to the built-out condition within the barrier island service area and limited potential for public access reuse.

Therefore, the South Beaches WWTF Non-Beneficial Surface Water Elimination Plan, to be implemented in accordance with Section 403.064, F.S., and the need to meet the AWT regulatory requirements of Section 403.086, F.S., will require the County to implement one of the following infrastructure improvements alternatives based on a detailed engineering evaluation of each alternative and project capital and operating costs:

Potential SBWWTF Improvements Alternative No.	State of Florida Regulatory Requirements	
	Discharges to the Indian River Lagoon (IRL) must meet AWT Criteria	Non-Beneficial Surface Water Discharge Elimination Plan
	Section 403.086, F.S.	Section 403.064, F.S.
	Implementation by July 1, 2025	Implementation by January 1, 2032
1	<p>Phase I: Conversion of the 2.0 MGD Conventional Activated Sludge WWTF to a 4-Stage BNR treatment system capable of producing an effluent that meets the AWT Criteria. All reclaimed water utilized in the service area would have a low nutrient concentration (TN, TP). The surface water discharge (D-001; 0.11 MGD AADF) would be kept in place due to the MIT associated with the single existing DIW. However, after commissioning of the second DIW as part of the Phase II improvements, the surface water discharge would be reclassified as a “wet weather” discharge to be used during periods intense rainfall from tropical events and localized storms.</p>	<p>Phase II: Installation of a second Deep Injection Well (DIW) on the South Beaches WWTF site with a capacity of 9.0 MGD AADF. The second DIW would provides the County with the following advantages:</p> <ul style="list-style-type: none"> ■ Provides Class I Reliability ■ Eliminates the need for surface water discharge of the effluent associated with MIT testing of a single DIW ■ Allows alternating operation of the DIW's <p>As previously states, the surface water discharge would be reclassified as a wet “weather discharge” upon commissioning of the new DIW.</p>
2	<p>Phase I: Conversion of the 2.0 MGD Conventional Activated Sludge WWTF to a 4-Stage BNR treatment system capable of producing an effluent that meets the AWT Criteria. All reclaimed water utilized in the service area would have a low nutrient concentration (TN, TP). The surface water discharge (D-001 - 0.11 MGD AADF) would be kept in place due to the MIT associated with the single existing DIW.</p>	<p>Phase II: Conversion of the 6.0 MGD Carrousel Oxidation Ditch WWTF to a 4-Stage or 5-Stage BNR treatment system capable of producing an effluent that meets the AWT Criteria. Upon completion of the Phase II project all disposal methods (reuse, surface water discharge, DIW) would occur with an effluent having a low nutrient concentration (TN, TP).</p>

In accordance with 403.064(17), Florida Statutes, Brevard County is also required to provide the following information as part of the Surface Water Discharge Elimination Plan:

Plan Information to Be Provided	Value	Explanation
The average flow (MGD) of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters and the date of such elimination	0.0 MGD AADF	Both alternatives identified in the table above will require the existing surface water discharge to remain as either a disposal option during MIT of the DIW or as a “wet weather discharge” due to intense storm events from tropical systems or localized storms.

Plan Information to Be Provided	Value	Explanation
The average flow (MGD) of surface water discharge that will continue in accordance with the requirements for the elimination of ocean outfalls, one of the discharge conditions specified in the legislation or one of the hardship conditions;	0.11 MGD AADF (maximum)	This is the permitted surface water discharge capacity in the current facility FDEP Operations Permit and will be used during MIT of the DIW or as a “wet weather discharge” depending upon the SBWWTF improvements alternative selected. Over the last 5 calendar years, the surface water discharge averaged 0.054 MGD and was mainly due to Hurricanes Matthew and Irma.
The level of treatment which the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative	AWT Levels* (5, 5, 3, 1)	Dependent upon the SBWWTF improvements alternative selected (Alternative No. 1 or Alternative No. 2), either one or both of the existing treatment systems (6.0 MGD Carousel System; 2.0 MGD Conventional Activated Sludge Process System) will be converted to a BNR Treatment System(s) capable of generating an effluent/reclaimed water meeting AWT standards/levels

* Modifications to the South Beaches WWTF Biological Treatment System(s) will be required to meet AWT Criteria/Sandards (BOD₅ < 5 mg/L; TSS < 5 mg/L; TN < 3 mg/L; and TP, 1 mg/L).

4.2 CAPACITY AND EFFICIENCY OF THE SOUTH BEACHES WWTF

A detailed evaluation of the historical wastewater flows to the South Beaches WWTF was conducted in Section 3.4 of this document. The raw wastewater flow rate received at the treatment facility, over the last five (5) Calendar Years (2016 - 2020), averaged 6.525 MGD, or 81.6% of the facility’s treatment capacity. Therefore, the South Beaches WWTF has the hydraulic capacity and infrastructure to treat the raw wastewater flows over the 20-year planning horizon.

Likewise, a detailed evaluation of the facility effluent quality, over the last five (5) Calendar Years (2016 - 2020), was conducted in Section 3.6 of this document. The reclaimed water quality produced and treatment efficiencies are as follows:

South Beaches WWTF - Treatment System Efficiency (2016 - 2020)			
Parameter	Influent Conc. (mg/L)	Effluent Conc. (mg/L)	Parameter Removal
CBOD ₅	39	1.5	96.1%
TSS	19	0.7	96.5%
TN	50	7.8	84.5%
TP	8	1.8	77.3%

Therefore, the unit operations and processes at the South Beaches WWTF are capable of treating the incoming raw wastewater and generating an effluent/reclaimed water product that is in compliance with the current FDEP Operations Permit.

4.3 ABILITY OF THE SOUTH BEACHES WWTF TO MEET “CURRENT” AND “FUTURE” NUTRIENT LIMITS

The wastewater treatment processes at the South Beaches WWTF consist of primary treatment unit operations, two distinct treatment trains each with their own secondary clarification system, and tertiary treatment unit operations to remove contaminants inherent in the raw wastewater influent and meet the Federal and State regulatory standards.

The reclaimed water quality produced by the South Central Regional WRF during the last five-year period (2016 - 2020) and the ability to meet AWT Criteria is presented below:

Parameter	AWT Effluent Limits (mg/L)	Effluent Concentration (mg/L)*	“Current” Facility Effluent Meets AWT Criteria
BOD ₅	5	1.5	Yes
TSS	5	0.7	Yes
Total Nitrogen (TN)	3	7.8	No
Total Phosphorus (TP)	1	1.8	No
pH	6.0 - 8.5	7.28	Yes

* Concentrations of reclaimed water constituents from Jan 2016 - Dec 2020

** Values in “red” exceed the AWT Criteria

To meet the surface water discharge regulatory requirements mandated in 403.086, F.S., on a continual basis, conversion of the 2.0 MGD Conventional Activated Sludge Process to a 4-Stage BNR treatment system, at a minimum, is required as outlined in Section 4.1 of this document. The new BNR treatment system will be capable of generating a high-quality effluent that meets all AWT Criteria. Thus, water being delivered to the public access reuse system and the Spessard Holland Golf Course pond system (potential intermittent discharge to the Indian River Lagoon) would be very low in nutrients, meet AWT criteria and meet the regulatory requirements mandated in Section 403.086, F.S.

A thorough engineering evaluation of the potential improvements required at the South Beaches WWTF to meet the regulatory requirements mandated in 403.086, F.S. and 403.064, F.S., as outlined in Section 4.1, will be conducted to determine the most energy-efficient, cost-effective and reliable modifications to the treatment facility. The identified improvements will then be included in the County’s Utility Capital Improvements Program (CIP) and a project schedule generated to ensure that design, construction, optimization and commissioning of said improvements are completed prior to the regulatory deadlines.

This page intentionally left blank

APPENDIX A

SOUTH BEACHES WWTF: “EXISTING” FDEP OPERATIONS PERMIT



OCTOBER 2021

This page intentionally left blank



FLORIDA DEPARTMENT OF Environmental Protection

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

NOTICE OF PERMIT ISSUANCE

Edward Fontanin, PE, Director
2725 Judge Fran Jamieson Way, Bldg A-213
Melbourne, FL 32940-6605
edward.fontanin@brevardfl.gov

Brevard County - DW
BCUD South Beaches WWTF

Enclosed is Permit Number FL0040622 to operate a domestic wastewater facility issued under Sections 403.087 and 403.0885 of the Florida Statutes.

Monitoring requirements under this permit are effective on May 1, 2019. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements.

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;

- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within **14** days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within **14** days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Lu Burson
Environmental Administrator
Permitting and Waste Clean Up Section

LB/crl

Enclosures: Permit, DMR and SOB

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

David Smicherko, DEP, david.smicherko@dep.state.fl.us
Mary Ann Kraus, DEP, mary.kraus@dep.state.fl.us
Kevin Lee, Mead Hunt, kevin.lee@meadhunt.com
Shelley Locklear, BCUD, shelley.locklear@brevardfl.gov
Mark Reagan, BCUD, mark.reagan@brevardfl.gov
Cassandra Cissell, Mead Hunt, Cassandra.Cissell@meadhunt.com
Megan Warr, DEP, megan.warr@dep.state.fl.us
Jason Seyfert, DEP, Jason.Seyfert@dep.state.fl.us

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.


Clerk

March 27, 2019
Date



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:
Brevard County Utility Services Department

RESPONSIBLE OFFICIAL:
Edward Fontanin, Director
2725 Judge Fran Jamieson Way
BLDG. A-213
Melbourne, Florida 32940-6605
(321) 633-2091

PERMIT NUMBER: FL0040622 (Minor)
FILE NUMBER: FL0040622-012-DW1P/NR
EFFECTIVE DATE: March 27, 2019
EXPIRATION DATE: March 26, 2024

FACILITY:

BCUD/South Beaches WWTF
2800 S Highway A1A
Melbourne Beach, FL 32951-2811
Brevard County
Latitude: 28°2' 29.62" N Longitude: 80°32' 52.4" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.) and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above-named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

WASTEWATER TREATMENT:

The facility is an existing 8.0 MGD annual average daily flow (AADF) activated sludge domestic wastewater treatment facility consisting of two (2) contiguous wastewater treatment plants (a 6.0 MGD dual train carousel oxidation ditch and a 2.0 MGD activated sludge plant), connected in parallel with mechanical influent screening, grit removal, aeration, clarification, chemical feed facilities, disinfection by chlorination, tertiary filtration, dechlorination, and dewatering of biosolids.

PERMIT HISTORY:

The current wastewater permit for this facility FL0040622-007-DW1P was issued on March 13, 2014 and expires on March 12, 2019. Permit revision FL0040622-008 was issued on October 16, 2016 and required the facility to follow new electronic submittal requirements. Permit revision FL0040622-009 was issued on March 9, 2017 to level the onsite outfall storage pond and to construct a baffle berm to prevent premature discharge. Permit revision FL0040622-010 was issued on April 26, 2017 and allowed modifications to the clarifiers pumping systems and the chlorine feed systems. Permit revision FL0040622-011 was issued on August 8, 2017 to allow upgrading of the three reclaimed water high service pumps.

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

REUSE OR DISPOSAL:

Surface Water Discharge D-001: D-001 is an existing 0.11 MGD annual average daily flow discharge to Indian River Lagoon, Class III Marine waters, (WBID# 2963A1). This segment of the Indian River is designated as Water Body Identification (WBID) # 2963A1, which is identified for assessment purposes as Class II waters since the majority of the WBID is Class II waters to the *south* of the discharge point, but the point of discharge is not in Class II waters. The 0.110 MGD discharge is authorized at Discharge location D-001 for a period not to exceed five (5) days during the Mechanical Integrity Testing of the facility's underground injection control well, in accordance with Conditions I.A.9 through I.A.12 of this permit. The permitted discharge of 8.0 MGD over five (5) days equates to an Annual Average Daily Flow of 0.11 MGD. The point of discharge is located approximately at latitude 28°2' 31" N, longitude 80°33' 1" W.

Underground Injection U-001: U-001 is an existing 8.0 MGD annual average daily flow permitted capacity underground injection well system consisting of one (1) Class I underground injection well permitted under Department permit number(s) 0185898-004 discharging to Class G-IV ground water. The capacity of the well is being rerated in this permit to 9.0 MGD annual average daily flow permitted capacity to match the permit for the well. Underground Injection Well System U-001 is located approximately at latitude 28°2' 27" N, longitude 80°32' 49" W.

Land Application R-001: An existing 3.0 MGD annual average daily flow permitted capacity slow-rate public access system. R-001 is a reuse system which consists of a reclaimed water transmission/distribution system for public access irrigation within the Reuse Service Area, as shown on the attached map. Reclaimed water is stored in an existing stormwater retention pond system located at the Spessard Holland Golf Course that has a combined storage capacity of 4.31 mg. The 4.31 MG stormwater retention pond system consists of seven ponds that are interconnected with underground culvert pipes at the golf course. The pond system has an intermittent discharge from Pond 6 to adjacent drainage features, which ultimately discharges to the Indian River Lagoon. Discharge of reclaimed water to this stormwater retention pond system shall be in accordance with Condition IV.16. of this permit.

IN ACCORDANCE WITH: The limitations, monitoring requirements, and other conditions set forth in this cover sheet and Part I through Part IX on pages 1 through 25 of this permit.

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
 EXPIRATION DATE: **March 26, 2024**

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

- During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D-001 to Indian River Lagoon. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.D.8. :

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (to D-001)	MGD	Max Max	0.11 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-3	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20	Single Sample	Daily; 24 hours	24-hr FPC	EFD-1	See I.A.6
Solids, Total Suspended	mg/L	Max	20	Single Sample	Daily; 24 hours	24-hr FPC	EFD-1	See I.A.6
Coliform, Fecal	#/100mL	Max Max Max	14 14 86	Annual Average Monthly Median Single Sample	5 Days/Week	Grab	EFA-2	See I.A.5
Enterococci	#/100mL	Max Max	35 130	Monthly Geometric Mean 90th Percentile	5 Days/Week	Grab	EFA-2	See I.A.8 and I.A.9
pH	s.u.	Max Min	8.5 6.5	Single Sample Single Sample	Continuous	Meter	EFA-2	See I.A.3
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-2	See I.A.3 and I.A.7
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	Daily; 24 hours	Grab	EFD-1	
Nitrogen, Total	mg/L	Max	12.0	Single Sample	Daily; 24 hours	24-hr FPC	EFD-1	
Phosphorus, Total (as P)	mg/L	Max	4.0	Single Sample	Daily; 24 hours	24-hr FPC	EFD-1	
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	Daily; 24 hours	Grab	EFD-2	
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Once during discharge	Grab	EFD-1	See I.A.10
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsii)	percent	Min	100	Single Sample	Once during discharge	Grab	EFD-1	See I.A.10
Phosphorus, Total (as P)	lb/yr	Max Max	36.0 Report	Annual Total Monthly Total	Monthly	Calculated	EFD-1	See Note 1
Nitrogen, Total	lb/yr	Max Max	173.0 Report	Annual Total Monthly Total	Monthly	Calculated	EFD-1	See Note 1

Note 1: The annual average mass loadings given are based on the final DEP TMDL from Outfall D-001 to the Indian River Lagoon and are based on the calendar year (January through December).

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-3	Flow meter for discharge to river during mechanical integrity testing
EFD-1	Sampling point at the holding pond discharge control structure
EFD-2	Sampling point following the holding pond discharge control structure
EFA-2	Sampling point at chlorine contact chamber/equalization basin

3. Hourly measurement of pH and total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. [62-600.660(1)]
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
5. The effluent limitation for the monthly median for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly median shall be calculated and reported on the Discharge Monitoring Report to be used to calculate the annual average. [62-600.440(7)(b)]
6. In accordance with subsections 62-600.420(1) and (2), F.A.C., the monthly average effluent CBOD₅ and TSS concentrations shall not exceed 15% of their respective influent values (i.e., 85% removal). [62-600.420(1) and (2)]
7. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(5)(c), (6)(b), and (7)(c)]
8. The effluent limitation for the monthly geometric mean for enterococci is only applicable if 10 or more values are reported. [62-302.530(6)(c)]
9. To report the “90th percentile,”
- Place the bacteria results in ascending order (from lowest to highest value) and assign each sample a number, 1 for the lowest value.
 - Multiply the total number of samples by 0.9 to determine the 90th percentile level.
 - Report the value of the sample that corresponds to the 90th percentile level (e.g., 10 samples x 0.9 = 9, report the value of the 9th sample). If the 90th percentile level is not a whole number, rounding or interpolation should be used to determine the 90th percentile. When rounding, round down to the nearest whole number if the decimal is 0.4 or lower and round up to the nearest whole number if the decimal is 0.5 or higher (e.g., 12 samples x 0.9 = 10.8, report the value of the 11th sample if rounding). [62-302.530(6)(c)]
10. The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from outfall D-001.
- Effluent Limitation
 - (1) In any routine or additional follow-up test for acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent. [62-302.200(1), 62-302.500(1)(a)4., 62-4.244(3)(a), and 62-4.241, F.A.C.]
 - Monitoring Frequency
 - (1) Routine toxicity tests shall be conducted once when there is a discharge from D-001. The test shall be collected the first time there is a discharge during the permit cycle.
 - Sampling Requirements
 - (1) All tests shall be conducted on a single grab sample of final effluent.
 - Test Requirements

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

- (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: **100%, 75%, 50%, 25%, and 12.5%** effluent.
 - (2) The permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the daphnid, **Ceriodaphnia dubia**, and the bannerfin shiner, **Cyprinella leedsi**, concurrently.
 - (3) All test species, procedures and quality assurance criteria used shall be in accordance with **Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms**, 5th Edition, EPA-821-R-02-012. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct acute toxicity testing in accordance with the revised method.
 - (4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-012, Table 7.
- e. Quality Assurance Requirements
- (1) A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly acute toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
 - (2) If the mortality in the control (0% effluent) exceeds 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated. The repeat test shall begin within 14 days after the last day of the invalid test.
 - (3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 10% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
 - (4) Routine and additional follow-up tests shall be evaluated for acceptability based on the concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2., and included with the bioassay laboratory reports.
- f. Reporting Requirements
- (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine Test Results: If an LC50 >100% effluent occurs in the test for the test species, ">100%" shall be entered on the DMR for that test species. If an LC50 <100% effluent occurs, the calculated LC50 effluent concentration shall be entered on the DMR for that test species.
 - (b) Additional Follow-up Test Results: For each additional test required, the calculated LC50 value shall be entered on the DMR for that test species.
 - (2) A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
 - (3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-012, Section 12, and mailed within 30 days after the last day of the second valid additional follow-up test.
 - (4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
 - (5) The same bioassay data shall not be reported as the results of more than one test.
 - (6) All bioassay laboratory reports shall be sent to:
Florida Department of Environmental Protection
Central District Office
3319 Maguire Blvd, Suite 232
Orlando, Florida 32803-3767
- g. Test Failures
- (1) A test fails when the test results do not meet the limits in 10.a.(1).
 - (2) Additional Follow-up Tests:

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

- (a) If a routine test does not meet the acute toxicity limitation in 10.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 10.d.
 - (b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
 - (c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 75%, 50%, 25%, and 12.5% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be statistically analyzed according to the procedures in EPA-821-R-02-012.
- (3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.
- (a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.
 - (b) The Department shall review and approve the plan before initiation.
 - (c) The plan shall be initiated within 30 days following the Department's written approval of the plan.
 - (d) Progress reports shall be submitted quarterly to the Department at the address above.
 - (e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 10.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 10.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012, a repeat test shall be initiated within 14 days after the last day of the invalid routine test.
 - (f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 10.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid but is replaced by a repeat valid test initiated within 14 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.
- (4) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for whole effluent toxicity failures. [62-4.241, 62-620.620(3)]
11. The permittee shall submit written notification to the Department, thirty (30) days prior to a scheduled underground injection well mechanical integrity test (MIT). Such notification must include the proposed date(s) for the test and indicate whether or not a discharge is expected due to the test. The performance of the MIT shall be contingent upon passing the toxicity tests required in Condition I.A.8. of this permit. [62-4-070(3)]
12. The surface water discharge can be continued after mechanical integrity testing has been performed, if the Department concurs in the prohibition of further injection well use due to technical problems identified during the test. If the discharge is continued beyond the period required for mechanical integrity testing, this permit may be modified to include more stringent effluent limitations as necessary to protect the water quality of the receiving water body and/or to include a compliance schedule for eliminating the surface water discharge. [62-4-070(3)]
13. The Total Maximum Daily Load (TMDL) for the Indian River Lagoon was finalized by DEP in March 2009. The TMDL includes a waste load allocation of:
- 173 lb/year for Total Nitrogen
 - 36 lb/year for Total Phosphorus

If an alternate TMDL for this water body is established and adopted by rule, the Department may revise this permit to incorporate the final TMDL, pursuant to Rule 62-620.325, Florida Administrative Code.

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
 EXPIRATION DATE: **March 26, 2024**

B. Underground Injection Control Systems

- During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent to Underground Injection Well System U-001 located approximately at latitude 28°2'27", longitude 80°32'49". Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.D.8.:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (to U-001)	MGD	Max Max	9.0 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-1	See I.B.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFA-2	
Solids, Total Suspended	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFA-2	
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Daily	Grab	EFA-2	See I.B.3

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.B.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-1	Flow meter for the injection well
EFA-2	Sampling point at chlorine contact chamber/equalization basin

3. Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. *[62-600.660(1)]*
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. *[62-600.200(25)]*
5. Disinfection is not required for discharge to Class G-IV waters using Class I wells. However, the permittee must maintain the capability for disinfection at a level that is consistent with the alternate disposal mechanism approved for this facility pursuant to Rule 62-600.540(5), F.A.C. *[62-600.540(1)]*

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
 EXPIRATION DATE: **March 26, 2024**

C. Reuse and Land Application Systems

- During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.D.8.:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (To Reuse)	MGD	Max Max	3.0 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-2	See I.C.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFA-1	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	4 Days/Week	Grab	EFA-1	
Coliform, Fecal	#/100mL	Max	25	Single Sample	4 Days/Week	Grab	EFA-1	
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	4 Days/Week	Calculated	EFA-1	See I.C.5
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-1	See I.C.3
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-1	See I.C.6 and I.C.9
Turbidity	NTU	Max	Report	Single Sample	Continuous	Meter	EFA-1	See I.C.7 and I.C.9
Nitrogen, Total	mg/L	Max Max	Report Report	Annual Average Monthly Average	Monthly	Grab	EFA-1	See I.C.11
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Annual Average Monthly Average	Monthly	Grab	EFA-1	See I.C.11
Giardia	cysts/100L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA-1	See I.C.10
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA-1	See I.C.10

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

2. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I.C.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-2	Flow meter for the reuse system and golf course irrigation
EFA-1	Sampling point at discharge of chlorine contact chamber
EFB-1	Sampling point after filtration and prior to disinfection

3. Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. [62-600.660(1)]
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
5. To report the "% less than detection," count the number of fecal coliform observations that were less than detection, divide by the total number of fecal coliform observations in the month, and multiply by 100% (round to the nearest integer). [62-600.440(6)(a)]
6. The minimum total chlorine residual shall be limited as described in the approved operating protocol, such that the permit limitation for fecal coliform bacteria will be achieved. In no case shall the total chlorine residual be less than 1.0 mg/L. [62-600.440(6)(b)][62-610.460(2)][62-610.463(2)]
7. The maximum turbidity shall be limited as described in the approved operating protocol, such that the permit limitations for total suspended solids and fecal coliforms will be achieved. [62-610.463(2)]
8. The treatment facilities shall be operated in accordance with all approved operating protocols. Only reclaimed water that meets the criteria established in the approved operating protocol(s) may be released to system storage or to the reuse system. Reclaimed water that fails to meet the criteria in the approved operating protocol(s) shall be directed to the following permitted alternate discharge system: underground injection well system U-001. [62-610.320(6) and 62-610.463(2)]
9. Instruments for continuous on-line monitoring of total residual chlorine and turbidity shall be equipped with an automated data logging or recording device. [62-610.463(2)]
10. Intervals between sampling for Giardia and Cryptosporidium shall not exceed two years. [62-610.463(4)]
11. Monitoring for total nitrogen (TN) and total phosphorus (TP) are required as allowed by Rule 62-600.650(3), FAC, to evaluate impacts of reclaimed water to ground and surface waters in an impaired water basin. [62-600.650(3)]

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
 EXPIRATION DATE: **March 26, 2024**

D. Other Limitations and Monitoring and Reporting Requirements

- During the period beginning on the effective date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.D.8.:

			Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Total through facility)	MGD	Max Max Max	8.0 Report Report	Annual Average Monthly Average Quarterly Average	Continuous	Recording Flow Meter with Totalizer	FLW-4	See I.D.4
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	FLW-4	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	5 Days/Week	24-hr FPC	INF-1	See I.D.3
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	5 Days/Week	24-hr FPC	INF-1	See I.D.3

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: March 26, 2024

2. Samples shall be taken at the monitoring site locations listed in Permit Condition I.D.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-4	Influent flow meter at headworks
INF-1	Automatic sampler upstream of return activated sludge (RAS) line

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-600.660(4)(a)]
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
5. Sampling results for giardia and cryptosporidium shall be reported on DEP Form 62-610.300(4)(a)4, Pathogen Monitoring, which is attached to this permit. This form shall be submitted to the Department's Central District Office and to DEP's Reuse Coordinator in Tallahassee. [62-610.300(4)(a)]
6. The sample collection, analytical test methods, and method detection limits (MDLs) applicable to this permit shall be conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-600, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled "FAC 62-4 MDL/PQL Table (April 26, 2006)" is available at <https://floridadep.gov/dear/quality-assurance/content/quality-assurance-resources>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
- The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
 - The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
 - If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantitation limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. [62-4.246, 62-160]

7. The permittee shall provide safe access points for obtaining representative samples which are required by this permit. [62-600.650(2)]
8. **Monitoring requirements under this permit are effective on May 1, 2019.** Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

REPORT Type on DMR	Monitoring Period	Submit by
Monthly	first day of month - last day of month	28 th day of following month
Quarterly	January 1 - March 31 April 1 - June 30 July 1 - September 30 October 1 - December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 31	July 28 January 28
Annual	January 1 - December 31	January 28

The permittee shall use the electronic DMR system approved by the Department (EzDMR) and shall electronically submit the completed DMR forms using the DEP Business Portal at <http://www.fldepportal.com/go/>, unless the permittee has a waiver from the Department in accordance with 40 CFR 127.15. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation. [62-620.610(18)] [62-600.680(1)]

9. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for asbestos, total coliform, color, odor, and residual disinfectants). These monitoring results shall be reported to the Department annually on the DMR. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted with the signed DMR in lieu of performing the analysis. When such a certification is submitted with the DMR, monitoring not required this period should be noted on the DMR. The annual reclaimed water or effluent analysis report, and certification if applicable, shall be completed and submitted in a timely manner so as to be received by the Department at the address identified on the DMR by January 28 of each year. Approved analytical methods identified in Rule 62-620.100(3)(j), F.A.C., shall be used for the analysis. If no method is included for a parameter, methods specified in Chapter 62-550, F.A.C., shall be used. [62-600.660(2) and (3)(d)] [62-600.680(2)] [62-610.300(4)]
10. The permittee shall submit an Annual Reuse Report using DEP Form 62-610.300(4)(a)2. on or before January 1 of each year. [62-610.870(3)]
11. Operating protocol(s) shall be reviewed and updated periodically to ensure continuous compliance with the minimum treatment and disinfection requirements. Updated operating protocols shall be submitted to the Department's Central District Office for review and approval upon revision of the operating protocol(s) and with each permit application. [62-610.320(6)] [62-610.463(2)]
12. The permittee shall maintain an inventory of storage systems. The inventory shall be submitted to the Department's Central District Office at least 30 days before reclaimed water will be introduced into any new storage system. The inventory of storage systems shall be attached to the annual submittal of the Annual Reuse Report. [62-610.464(5)]
13. The permittee shall use the electronic DMR system approved by the Department (EzDMR) and shall electronically submit the completed DMR forms using the DEP Business Portal at <http://www.fldepportal.com/go/>, unless the permittee has a waiver from the Department in accordance with 40 CFR 127.15. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation. [62-620.610(18)] [62-600.680(1)]
14. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. [62-620.305]

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
 EXPIRATION DATE: March 26, 2024

II. BIOSOLIDS MANAGEMENT REQUIREMENTS

A. Basic Requirements

1. Biosolids generated by this facility may be disposed of in a Class I solid waste landfill. [62-620.320(6), 62-640.880(1)]
2. The permittee shall monitor and keep records of the quantities of biosolids generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled. These records shall be kept for a minimum of five years. [62-640.650(4)(a)]

Biosolids quantities shall be monitored by the permittee as specified below. Results shall be reported on the permittee's Discharge Monitoring Report for Monitoring Group RMP-Q in accordance with Condition I.D.8. [62-640.650(5)(a)]

			Biosolids Limitations		Monitoring Requirements		
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1

3. Biosolids quantities shall be calculated as listed in Permit Condition II.3 and as described below:

Monitoring Site Number	Description of Monitoring Site Calculations
RMP-1	Calculated (based on volume and percent solids). Reported in dry tons.

4. The treatment, management, transportation, use, land application, or disposal of biosolids shall not cause a violation of the odor prohibition in subsection 62-296.320(2), F.A.C. [62-640.400(6)]
5. Storage of biosolids or other solids at this facility shall be in accordance with the Facility Biosolids Storage Plan. [62-640.300(4)]
6. Biosolids shall not be spilled from or tracked off the treatment facility site by the hauling vehicle. [62-640.400(9)]

B. Disposal

7. Disposal of biosolids, septage, and "other solids" in a solid waste disposal facility, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. [62-640.100(6)(b) & (c)]

C. Receipt

8. If the permittee intends to accept biosolids from other facilities, a permit revision is required pursuant to paragraph 62-640.880(2)(d), F.A.C. [62-640.880(2)(d)]

III. GROUND WATER REQUIREMENTS

1. The permittee shall give at least 72-hours' notice to the Department's Central District Office, prior to the installation of any monitoring wells. [62-520.600(6)(h)]
2. Before construction of new ground water monitoring wells, a soil boring shall be made at each new monitoring well location to properly determine monitoring well specifications such as well depth, screen interval, screen slot, and filter pack. [62-520.600(6)(g)]

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

3. Within 30 days after installation of a monitoring well, the permittee shall submit to the Department's Central District Office well completion reports and soil boring/lithologic logs on the attached DEP Form(s) 62-520.900(3), Monitoring Well Completion Report. [62-520.600(6)(j) and .900(3)]
4. All piezometers and monitoring wells not part of the approved ground water monitoring plan shall be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., unless future use is intended. [62-532.500(5)]
5. For the Part III Public Access system, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge shall extend horizontally 100 feet from the application site(s) or to the property boundaries, whichever is less, and vertically to the base of the surficial aquifer. [62-520.200(27)] [62-520.465]
6. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. [62-520.400 and 62-520.420(4)]
7. If the concentration for any constituent listed in Permit Condition III.10. in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative background quality shall be the prevailing standard. [62-520.420(2)]
8. During the period of operation authorized by this permit, the permittee shall continue to sample ground water at the monitoring wells identified in Permit Condition III.9., below in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-520.600, F.A.C. [62-520.600] [62-610.463]
9. The following monitoring wells shall be sampled for Reuse System R-001. [62-520.600] [62-610.463]

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude	Longitude	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
MWB-4	West Well at WWTP	28°33' 30"	80°33' 30"	20	Surficial	Background	Existing
MWC-1	North Well at WWTP	28°33' 30"	80°33' 30"	20	Surficial	Compliance	Existing
MWC-2	East Well at WWTP	28°33' 30"	80°33' 30"	20	Surficial	Compliance	Existing
MWC-3SP	MWC-3 Spessard Holland Golf Course	28°32' 29"	80°32' 40"	28	Surficial	Compliance	Existing
MWC-4SP	MWC-4 Spessard Holland Golf Course	28°32' 29"	80°32' 40"	14	Surficial	Compliance	Existing
MWI-3	South Well at WWTP	28°33' 30"	80°33' 30"	20	Surficial	Intermediate	Existing

10. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.9. [62-520.600(11)(b)] [62-600.670] [62-600.650(3)] [62-520.310(5)]

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	In Situ	Quarterly
Nitrogen, Nitrate, Total (as N)	10	mg/L	Grab	Quarterly
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Quarterly
Chloride (as Cl)	250	mg/L	Grab	Quarterly
Coliform, Fecal	4	#/100mL	Grab	Quarterly
pH	6.5-8.5	s.u.	Grab	Quarterly
Turbidity	Report	NTU	Grab	Quarterly
Sodium, Total Recoverable	160	mg/L	Grab	Quarterly

11. Water levels shall be recorded before evacuating each well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NAVD allowable) at a precision of plus or minus 0.01 foot. [62-520.600(11)(c)] [62-610.463(3)(a)]

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

12. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-160.210] [62-600.670(3)]
13. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's Central District Office as being more representative of ground water conditions. [62-520.310(5)]
14. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10) in accordance with Permit Condition I.D.8. [62-520.600(11)(b)] [62-600.670] [62-600.680(1)] [62-620.610(18)]
15. If any monitoring well becomes inoperable or damaged to the extent that sampling or well integrity may be affected, the permittee shall notify the Department's Central District Office within two business days from discovery, and a detailed written report shall follow within ten days after notification to the Department. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence or request approval for replacement of the monitoring well. All monitoring well design and replacement shall be approved by the Department's Central District Office before installation. [62-520.600(6)(l)]
16. The permittee shall sample the following monitoring well(s): MWC-1 for the primary and secondary drinking water parameters included in Rules 62-550.310 and 62-550.320, F.A.C., (except for asbestos and all parameters in Table 5 of Chapter 62-550, F.A.C., other than Di(2-ethylhexyl) adipate and Di(2-ethylhexyl) phthalate). Results of this sampling shall be submitted to the Department's Central District Office with the application for permit renewal. Sampling shall occur no sooner than 180 days before submittal of the renewal application. [62-520.600(5)(b)]

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

A. Part III Public Access System(s)

1. This reuse system includes the following major user(s) of reclaimed water (i.e., using 0.1 MGD or more) and general service area(s):

Site Number	User Name	User Type	Capacity (MGD)	Acreage
PAA-001	Residential Areas	Residential Developments	0.3	35.9
PAA-002	Spessard Holland Golf Course	Golf Courses	0.993	80
Total			1.3	115.9

[62-610.800(5)] [62-620.630(10)(b)]

2. Cross-connections to the potable water system are prohibited. [62-610.469(7)]
3. A cross-connection control program shall be implemented and/or remain in effect within the areas where reclaimed water will be provided for use and shall be in compliance with the Rule 62-555.360, F.A.C. [62-610.469(7)]
4. The permittee shall conduct inspections within the reclaimed water service area to verify proper connections, to minimize illegal cross-connections, and to verify both the proper use of reclaimed water and that the proper backflow prevention assemblies or devices have been installed and tested. Inspections are required when a customer first connects to the reuse distribution system. Subsequent inspections are required as specified in the cross-connection control and inspection program. [62-610.469(7)(h)]
5. If an actual or potential (e.g. no dual check device on residential connections served by a reuse system) cross-connection between the potable and reclaimed water systems is discovered, the permittee shall:

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

- a. Immediately discontinue potable water and/or reclaimed water service to the affected area if an actual cross-connection is discovered.
 - b. If the potable water system is contaminated, clear the potable water lines.
 - c. Eliminate the cross-connection and install a backflow prevention device as required by the Rule 62-555.360 F.A.C.
 - d. Test the affected area for other possible cross-connections.
 - e. Within 24 hours, notify the Department's Central District Office's domestic wastewater and drinking water programs.
 - f. Within 5 days of discovery of an actual or potential cross-connection, submit a written report to the Department's Central District Office detailing: a description of the cross-connection, how the cross-connection was discovered, the exact date and time of discovery, approximate time that the cross-connection existed, the location, the cause, steps taken to eliminate the cross-connection, whether reclaimed water was consumed, and reports of possible illness, whether the drinking water system was contaminated and the steps taken to clear the drinking water system, when the cross-connection was eliminated, plan of action for testing for other possible cross-connections in the area, and an evaluation of the cross-connection control and inspection program to ensure that future cross-connections do not occur. *[62-555.350(3) and 62-555.360][62-620.610(20)]*
6. Maximum obtainable separation of reclaimed water lines and potable water lines shall be provided and the minimum separation distances specified in Rule 62-610.469(7), F.A.C., shall be provided. Reuse facilities shall be color coded or marked. Underground piping which is not manufactured of metal or concrete shall be color coded using Pantone Purple 522C using light stable colorants. Underground metal and concrete pipe shall be color coded or marked using purple as the predominant color. *[62-610.469(7)]*
 7. In constructing reclaimed water distribution piping, the permittee shall maintain a 75-foot setback distance from a reclaimed water transmission facility to public water supply wells. No setback distances are required to other potable water supply wells or to any nonpotable water supply wells. *[62-610.471(3)]*
 8. A setback distance of 75 feet shall be maintained between the edge of the wetted area and potable water supply wells, unless the utility adopts and enforces an ordinance prohibiting potable water supply wells within the reuse service area. No setback distances are required to any nonpotable water supply well, to any surface water, to any developed areas, or to any private swimming pools, hot tubs, spas, saunas, picnic tables, barbecue pits, or barbecue grills. *[62-610.471(1), (2), (5), and (7)]*
 9. Reclaimed water shall not be used to fill swimming pools, hot tubs, or wading pools. *[62-610.469(4)]*
 10. Low trajectory nozzles, or other means to minimize aerosol formation shall be used within 100 feet from outdoor public eating, drinking, or bathing facilities. *[62-610.471(6)]*
 11. A setback distance of 100 feet shall be maintained from indoor aesthetic features using reclaimed water to adjacent indoor public eating and drinking facilities. *[62-610.471(8)]*
 12. The public shall be notified of the use of reclaimed water. This shall be accomplished by posting of advisory signs in areas where reuse is practiced, notes on scorecards, or other methods. *[62-610.468(2)]*
 13. All new advisory signs and labels on vaults, service boxes, or compartments that house hose bibbs along with all labels on hose bibbs, valves, and outlets shall bear the words "do not drink" and "no beber" along with the equivalent standard international symbol. In addition to the words "do not drink" and "no beber," advisory signs posted at storage ponds and decorative water features shall also bear the words "do not swim" and "no nadar" along with the equivalent standard international symbols. Existing advisory signs and labels shall be retrofitted, modified, or replaced in order to comply with the revised wording requirements. For existing advisory signs and labels this retrofit, modification, or replacement shall occur within 365 days after the date of this permit. For labels on existing vaults, service boxes, or compartments housing hose bibbs this retrofit, modification, or replacement shall occur within 730 days after the date of this permit. *[62-610.468, 62-610.469]*

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

14. The permittee shall ensure that users of reclaimed water are informed about the origin, nature, and characteristics of reclaimed water; the manner in which reclaimed water can be safely used; and limitations on the use of reclaimed water. Notification is required at the time of initial connection to the reclaimed water distribution system and annually after the reuse system is placed into operation. A description of on-going public notification activities shall be included in the Annual Reuse Report. *[62-610.468(6)]*
15. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.414(8)]*
16. Overflows from emergency discharge facilities on storage ponds shall be reported as abnormal events in accordance with Permit Condition IX.20. *[62-610.800(9)]*

V. OPERATION AND MAINTENANCE REQUIREMENTS

A. Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of one or more operators certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category I, Class A facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 24 hours/day for 7 days/week. The lead/chief operator must be a Class A operator. *[62-620.630(3)][62-699.310] [62-610.462]*
2. The lead/chief operator shall be employed at the plant full time. "Full time" shall mean at least 4 days per week, working a minimum of 35 hours per week, including leave time. A licensed operator shall be on-site and in charge of each required shift for periods of required staffing time when the lead/chief operator is not on-site. An operator meeting the lead/chief operator class for the treatment plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. *[62-699.311(10), (6) and (1)]*

B. Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

1. **An updated capacity analysis report shall be submitted to the Department annually by December 1 of each year. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. *[62-600.405(5)]***
2. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. *[62-600.735(1)]*

C. Recordkeeping Requirements

1. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
 - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
 - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

- e. A copy of the current permit;
- f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
- g. A copy of any required record drawings;
- h. Copies of the licenses of the current certified operators;
- i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and license number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities, including any preventive maintenance or repairs made or requested; results of tests performed and samples taken, unless documented on a laboratory sheet; and notation of any notification or reporting completed in accordance with Rule 62-602.650(3), F.A.C. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed; and
- j. Records of biosolids quantities, treatment, monitoring, and hauling for at least five years. *[62-620.350, 62-602.650, 62-640.650(4)]*

VI. SCHEDULES

1. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
 - a. The permittee has applied for renewal of this permit at least 180 days before the expiration date of this permit using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
 - b. The permittee has made complete the application for renewal of this permit before the permit expiration date.

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility is not required to have a pretreatment program at this time. *[62-625.500]*

VIII. OTHER SPECIFIC CONDITIONS

1. The permittee shall comply with all conditions and requirements for reuse contained in their consumptive use permit issued by the Water Management District, if such requirements are consistent with Department rules. *[62-610.800(10)]*
2. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(5) and 62-640.400(6)]*
3. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C. *[62-604.130(3)]*

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

4. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
5. The operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
 - a. Which may cause fire or explosion hazards; or
 - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
 - c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
 - d. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40°C or otherwise inhibiting treatment; or
 - e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems. *[62-604.130(5)]*
6. The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.400(2)(b)]*
7. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-701.300(1)(a)]*
8. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. *[62-620.310(4)]*
9. The permittee shall provide verbal notice to the Department's Central District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*
10. The permittee shall provide notice to the Department of the following:
 - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C., if it were directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.

Notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility. *[62-620.625(2)]*

IX. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1)]*

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications, or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2)]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. *[62-620.610(3)]*
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4)]*
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-620.610(5)]*
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. *[62-620.610(6)]*
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620.610(7)]*
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620.610(8)]*
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
 - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
 - b. Have access to and copy any records that shall be kept under the conditions of this permit;
 - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
 - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules. *[62-620.610(9)]*
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10)]*

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance. *[62-620.610(17)]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160, 62-600, and 62-610, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
 - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

- Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
- e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
 - f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C. [62-620.610(18)]
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19)]
20. The permittee shall report to the Department's Central District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- a. The following shall be included as information which must be reported within 24 hours under this condition:
 - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - (4) Any unauthorized discharge to surface or ground waters.
 - b. Oral reports as required by this subsection shall be provided as follows:
 - (1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the STATE WATCH OFFICE TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Watch Office:
 - (a) Name, address, and telephone number of person reporting;
 - (b) Name, address, and telephone number of permittee or responsible person for the discharge;
 - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
 - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - (e) Estimated amount of the discharge;
 - (f) Location or address of the discharge;
 - (g) Source and cause of the discharge;
 - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - (i) Description of area affected by the discharge, including name of water body affected, if any; and
 - (j) Other persons or agencies contacted.
 - (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Central District Office within 24 hours from the time the permittee becomes aware of the circumstances.
 - c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Central District Office shall waive the written report. [62-620.610(20)]

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX.17., IX.18., or IX.19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20. of this permit. *[62-620.610(21)]*
22. Bypass Provisions.
- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
 - b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Permit Condition IX.22.c. of this permit.
 - c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
 - d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX.22.b.(1) through (3) of this permit.
 - e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX.22.b. through d. of this permit. *[62-620.610(22)]*
23. Upset Provisions.
- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
 - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
 - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
 - b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in Permit Condition IX.20. of this permit; and
 - (4) The permittee complied with any remedial measures required under Permit Condition IX.5. of this permit.
 - c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
 - d. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review. *[62-620.610(23)]*

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Beaches WWTF

PERMIT NUMBER: FL0040622 (Minor)
EXPIRATION DATE: **March 26, 2024**

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION



Lu Burson,
Environmental Administrator
Permitting and Waste Clean Up Program

PERMIT ISSUANCE DATE: March 27, 2019

Attachment(s):
Discharge Monitoring Report
"Pathogen Monitoring" Form

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <http://www.fldeportal.com/go/>

PERMITTEE NAME: Brevard County Utility Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940-6605
 FACILITY: BCUD/South Beaches WWTF
 LOCATION: 2800 S Highway A1A
 Melbourne Beach, FL 32951-2811

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0040622-012-DW1P
 LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: D-001
 MONITORING GROUP DESCRIPTION: Class III Marine
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

Expiration Date March 26, 2024
REPORT FREQUENCY: Monthly
PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (to D-001)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-3	Permit Requirement		0.11 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (to D-001)	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-3	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 1 Mon. Site No. EFD-1	Permit Requirement					20 (Max.)	mg/L			Daily; 24 hours	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFD-1	Permit Requirement					20 (Max.)	mg/L			Daily; 24 hours	24-hr FPC
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Y Mon. Site No. EFA-2	Permit Requirement					14 (An.Avg.)	#/100mL			5 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-2	Permit Requirement					14 (Mo.Med.)	86 (Max.)	#/100mL		5 Days/Week	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP

D-001

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Enterococci	Sample Measurement										
PARM Code 31639 A Mon. Site No. EFA-2	Permit Requirement				35 (Mo.Geo.Mn.)	130 (90th %)	#/100mL			5 Days/Week	Grab
pH	Sample Measurement										
PARM Code 00400 A Mon. Site No. EFA-2	Permit Requirement				6.5 (Min.)	8.5 (Max.)	s.u.			Continuous	Meter
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 A Mon. Site No. EFA-2	Permit Requirement				1.0 (Min.)		mg/L			Continuous	Meter
Chlorine, Total Residual (For Dechlorination)	Sample Measurement										
PARM Code 50060 1 Mon. Site No. EFD-1	Permit Requirement					0.01 (Max.)	mg/L			Daily; 24 hours	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFD-1	Permit Requirement					12.0 (Max.)	mg/L			Daily; 24 hours	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFD-1	Permit Requirement					4.0 (Max.)	mg/L			Daily; 24 hours	24-hr FPC
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 1 Mon. Site No. EFD-2	Permit Requirement				5.0 (Min.)		mg/L			Daily; 24 hours	Grab
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Routine)	Sample Measurement										
PARM Code TAN3B P Mon. Site No. EFD-1	Permit Requirement				100 (Min.)		percent			Once during discharge	Grab
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TAN3B Q Mon. Site No. EFD-1	Permit Requirement				100 (Min.)		percent			As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TAN3B R Mon. Site No. EFD-1	Permit Requirement				100 (Min.)		percent			As needed	As required by the permit

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP D-001

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From:

To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Routine)	Sample Measurement										
PARM Code TAN6H P Mon. Site No. EFD-1	Permit Requirement				100 (Min.)			percent		Once during discharge	Grab
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement										
PARM Code TAN6H Q Mon. Site No. EFD-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement										
PARM Code TAN6H R Mon. Site No. EFD-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 P Mon. Site No. EFD-1	Permit Requirement	Report (Mo.Total)	36.0 (An.Total)	lb/yr						Monthly	Calculated
Nitrogen, Total	Sample Measurement										
PARM Code 00600 P Mon. Site No. EFD-1	Permit Requirement	Report (Mo.Total)	173.0 (An.Total)	lb/yr						Monthly	Calculated

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <http://www.fldeportal.com/go/>

PERMITTEE NAME: Brevard County Utility Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940-6605
 FACILITY: BCUD/South Beaches WWTF
 LOCATION: 2800 S Highway A1A
 Melbourne Beach, FL 32951-2811

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0040622-012-DW1P
 LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: R-001
 MONITORING GROUP DESCRIPTION: Public Access Reuse System, with Influent
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

Expiration Date March 26, 2024
REPORT FREQUENCY: Monthly
PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (To Reuse)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-2	Permit Requirement		3.0 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (To Reuse)	Sample Measurement										
PARM Code 50050 I Mon. Site No. FLW-2	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement				20.0 (An.Avg.)		mg/L			5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement				60.0 (Max.)	45.0 (Max.Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 B Mon. Site No. EFB-1	Permit Requirement						5.0 (Max.)	mg/L		4 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement						25 (Max.)	#/100mL		4 Days/Week	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP

R-001

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Coliform, Fecal, % less than detection	Sample Measurement										
PARM Code 51005 A Mon. Site No. EFA-1	Permit Requirement				75 (Min.Mo.Total)			percent		4 Days/Week	Calculated
pH	Sample Measurement										
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		Continuous	Meter
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				1.0 (Min.)			mg/L		Continuous	Meter
Turbidity	Sample Measurement										
PARM Code 00070 B Mon. Site No. EFB-1	Permit Requirement						Report (Max.)	NTU		Continuous	Meter
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon. Site No. EFA-1	Permit Requirement					Report (An.Avg.)		mg/L		Monthly	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Y Mon. Site No. EFA-1	Permit Requirement					Report (An.Avg.)		mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 A Mon. Site No. EFA-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Monthly	Grab
Flow (Total through facility)	Sample Measurement										
PARM Code 50050 P Mon. Site No. FLW-4	Permit Requirement		8.0 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Total through facility)	Sample Measurement										
PARM Code 50050 Q Mon. Site No. FLW-4	Permit Requirement	Report (Qt.Avg.)	Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP

R-001

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement										
PARM Code 00180 1 Mon. Site No. FLW-4	Permit Requirement						Report (Mo.Avg.)	percent		Monthly	Calculated
BOD, Carbonaceous 5 day, 20C (Influent)	Sample Measurement										
PARM Code 80082 G Mon. Site No. INF-1	Permit Requirement						Report (Max.)	mg/L		5 Days/Week	24-hr FPC
Solids, Total Suspended (Influent)	Sample Measurement										
PARM Code 00530 G Mon. Site No. INF-1	Permit Requirement						Report (Max.)	mg/L		5 Days/Week	24-hr FPC

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <http://www.fldeportal.com/go/>

PERMITTEE NAME: Brevard County Utility Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940-6605
 FACILITY: BCUD/South Beaches WWTF
 LOCATION: 2800 S Highway A1A
 Melbourne Beach, FL 32951-2811

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0040622-012-DW1P
 LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: U-001
 MONITORING GROUP DESCRIPTION: underground injection well
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

Expiration Date: March 26, 2024
 REPORT FREQUENCY: Monthly
 PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (to U-001)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement		9.0 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (to U-001)	Sample Measurement										
PARM Code 50050 I Mon. Site No. FLW-1	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFA-2	Permit Requirement				20.0 (An.Avg.)			mg/L		5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 A Mon. Site No. EFA-2	Permit Requirement				60.0 (Max.)	45.0 (Max.Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon. Site No. EFA-2	Permit Requirement				20.0 (An.Avg.)			mg/L		5 Days/Week	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 A Mon. Site No. EFA-2	Permit Requirement				60.0 (Max.)	45.0 (Max.Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP U-001

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From:

To:

[illegible]

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <http://www.fldeportal.com/go/>

PERMITTEE NAME: Brevard County Utility Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940-6605
 FACILITY: BCUD/South Beaches WWTF
 LOCATION: 2800 S Highway A1A
 Melbourne Beach, FL 32951-2811

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0040622-012-DW1P

LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: RMP-Q
 MONITORING GROUP DESCRIPTION: Biosolids Quantity

REPORT FREQUENCY: Monthly
 PROGRAM: Domestic

RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Biosolids Quantity (Landfilled)	Sample Measurement										
PARM Code B0008 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FL0040622-012-DW1P
From: _____ To: _____

Facility: BCUD/South Beaches WWTF

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	pH s.u.	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Enterococci #/100mL	Solids, Total Suspended mg/L
Code	80082	50060	74055	00600	00665	00400	80082	50060	74055	31639	00530
Mon. Site	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-2	EFA-2	EFA-2	EFA-2	EFA-2
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: _____ Certificate No: _____ Name: _____

Evening Shift Operator Class: _____ Certificate No: _____ Name: _____

Night Shift Operator Class: _____ Certificate No: _____ Name: _____

Lead Operator Class: _____ Certificate No: _____ Name: _____

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FL0040622-012-DW1P

From: To:

Facility: BCUD/South Beaches WWTF

	pH s.u. Min	pH s.u. Max	Solids, Total Suspended mg/L	Turbidity NTU	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Dechlorination) mg/L	Nitrogen, Total mg/L	Oxygen, Dissolved (DO) mg/L	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	Flow (to U- 001) MGD
Code	00400	00400	00530	00070	80082	50060	00600	00300	00665	00530	50050
Mon. Site	EFA-2	EFA-2	EFB-1	EFB-1	EFD-1	EFD-1	EFD-1	EFD-2	EFD-1	EFD-1	FLW-1
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: Certificate No: Name:

Evening Shift Operator Class: Certificate No: Name:

Night Shift Operator Class: Certificate No: Name:

Lead Operator Class: Certificate No: Name:

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FL0040622-012-DW1P

From: To:

Facility: BCUD/South Beaches WWTF

	Flow (To Reuse) MGD	Flow (to D-001) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L	Flow (Total through facility) MGD						
Code	50050	50050	80082	00530	50050						
Mon. Site	FLW-2	FLW-3	INF-1	INF-1	FLW-4						
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: Certificate No: Name:

Evening Shift Operator Class: Certificate No: Name:

Night Shift Operator Class: Certificate No: Name:

Lead Operator Class: Certificate No: Name:

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Beaches WWTF
 Permit Number: FL0040622-012-DW1P
 County: Brevard
 Office: Central District

Monitoring Well ID: MWB-4
 Well Type: Background
 Description: West Well at WWTP
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Beaches WWTF
 Permit Number: FL0040622-012-DW1P
 County: Brevard
 Office: Central District

Monitoring Well ID: MWC-1
 Well Type: Compliance
 Description: North Well at WWTP
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Sodium, Total Recoverable	00923		160	mg/L	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Beaches WWTF
 Permit Number: FL0040622-012-DW1P
 County: Brevard
 Office: Central District

Monitoring Well ID: MWC-2
 Well Type: Compliance
 Description: East Well at WWTP
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Sodium, Total Recoverable	00923		160	mg/L	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Beaches WWTF
 Permit Number: FL0040622-012-DW1P
 County: Brevard

Monitoring Well ID: MWC-3SP
 Well Type: Compliance
 Description: MWC-3 Spessard
 Holland Golf Course
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Sodium, Total Recoverable	00923		160	mg/L	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Beaches WWTF
 Permit Number: FL0040622-012-DW1P
 County: Brevard

Monitoring Well ID: MWC-4SP
 Well Type: Compliance
 Description: MWC-4 Spessard
 Holland Golf Course
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Sodium, Total Recoverable	00923		160	mg/L	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Beaches WWTF
 Permit Number: FL0040622-012-DW1P
 County: Brevard
 Office: Central District

Monitoring Well ID: MWI-3
 Well Type: Intermediate
 Description: South Well at WWTP
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. Facilities who submit their DMR(s) electronically through eDMR do not need to submit a hardcopy DMR. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used, unless indicated otherwise in the permit or on the DMR:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units. Data qualifier codes are not to be reported on Part A.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Data qualifier codes are not to be reported on Part D.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <http://www.fldeportal.com/go/>

PERMITTEE NAME: Brevard County Util Serv Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940-6605
 FACILITY: BCUD/South Beaches WWTF
 LOCATION: 2800 S Highway A1A
 Melbourne Beach, FL 32951-2811

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0040622-012-DW1P

LIMIT:
 CLASS SIZE:
 MONITORING GROUP NUMBER:
 MONITORING GROUP DESCRIPTION:
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING NOT REQUIRED:* ☐
 MONITORING PERIOD From: _____ To: _____

Final
 MI
 RWS-A
 Annual Reclaimed Water or Effluent Analysis

REPORT FREQUENCY: Annually
 PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable (GWS = 6)**	Sample Measurement										
PARM Code 01268 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Arsenic, Total Recoverable (GWS = 10)	Sample Measurement										
PARM Code 00978 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Barium, Total Recoverable (GWS = 2,000)	Sample Measurement										
PARM Code 01009 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Beryllium, Total Recoverable (GWS = 4)	Sample Measurement										
PARM Code 00998 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Cadmium, Total Recoverable (GWS = 5)	Sample Measurement										
PARM Code 01113 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Chromium, Total Recoverable (GWS =100)	Sample Measurement										
PARM Code 01118 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

*THE "MONITORING NOT REQUIRED" CHECKBOX SHOULD BE SELECTED WHEN A CERTIFICATION STATEMENT IN ACCORDANCE WITH SUBSECTION 62-600.680(2), F.A.C., IS SUBMITTED WITH THIS DMR. SEE CERTIFICATION STATEMENT IN COMMENTS SECTION BELOW.

**GROUND WATER STANDARD (GWS) FOR REFERENCE AND REVIEW ONLY.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

☐ NO NEW NON-DOMESTIC WASTEWATER DISCHARGERS HAVE BEEN ADDED TO THE COLLECTION SYSTEM SINCE THE LAST RECLAIMED WATER OR EFFLUENT ANALYSIS WAS CONDUCTED.
 SIGN AND DATE:

ISSUANCE/REISSUANCE DATE: March 27, 2019

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Cyanide, Free (amen. to chlorination)(GWS = 200)	Sample Measurement										
PARM Code 00722 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Fluoride, Total (as F) (GWS = 4.0/2.0)	Sample Measurement										
PARM Code 00951 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Lead, Total Recoverable (GWS = 15)	Sample Measurement										
PARM Code 01114 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Mercury, Total Recoverable (GWS = 2)	Sample Measurement										
PARM Code 71901 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Nickel, Total Recoverable (GWS = 100)	Sample Measurement										
PARM Code 01074 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Nitrogen, Nitrate, Total (as N) (GWS = 10)	Sample Measurement										
PARM Code 00620 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Nitrogen, Nitrite, Total (as N) (GWS = 1)	Sample Measurement										
PARM Code 00615 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Nitrite plus Nitrate, Total 1 det. (as N)(GWS = 10)	Sample Measurement										
PARM Code 00630 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Selenium, Total Recoverable (GWS = 50)	Sample Measurement										
PARM Code 00981 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Sodium, Total Recoverable (GWS = 160)	Sample Measurement										
PARM Code 00923 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE: March 27, 2019

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Thallium, Total Recoverable (GWS = 2)	Sample Measurement										
PARM Code 00982 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
1,1-dichloroethylene (GWS = 7)	Sample Measurement										
PARM Code 34501 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,1,1-trichloroethane (GWS = 200)	Sample Measurement										
PARM Code 34506 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,1,2-trichloroethane (GWS = 5)	Sample Measurement										
PARM Code 34511 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-dichloroethane (GWS = 3)	Sample Measurement										
PARM Code 32103 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-dichloropropane (GWS = 5)	Sample Measurement										
PARM Code 34541 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2,4-trichlorobenzene (GWS = 70)	Sample Measurement										
PARM Code 34551 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Benzene (GWS = 1)	Sample Measurement										
PARM Code 34030 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Carbon tetrachloride (GWS = 3)	Sample Measurement										
PARM Code 32102 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Cis-1,2-dichloroethene (GWS = 70)	Sample Measurement										
PARM Code 81686 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dichloromethane (methylene chloride)(GWS = 5)	Sample Measurement										
PARM Code 03821 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Ethylbenzene (GWS = 700)	Sample Measurement										
PARM Code 34371 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Monochlorobenzene (GWS = 100)	Sample Measurement										
PARM Code 34031 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-dichlorobenzene (GWS = 600)	Sample Measurement										
PARM Code 34536 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,4-dichlorobenzene (GWS = 75)	Sample Measurement										
PARM Code 34571 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Styrene, Total (GWS = 100)	Sample Measurement										
PARM Code 77128 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Tetrachloroethylene (GWS = 3)	Sample Measurement										
PARM Code 34475 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Toluene (GWS = 1,000)	Sample Measurement										
PARM Code 34010 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-trans-dichloroethylene (GWS = 100)	Sample Measurement										
PARM Code 34546 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Trichloroethylene (GWS = 3)	Sample Measurement										
PARM Code 39180 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Vinyl chloride (GWS = 1)	Sample Measurement										
PARM Code 39175 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Xylenes (GWS = 10,000)	Sample Measurement										
PARM Code 81551 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
2,3,7,8-tetrachlorodibenzo-p-dioxin(GWS = 3x10 ⁻⁵)	Sample Measurement										
PARM Code 34675 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dichlorophenoxyacetic acid (GWS = 70)	Sample Measurement										
PARM Code 39730 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Silvex (GWS = 50)	Sample Measurement										
PARM Code 39760 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Alachlor (GWS = 2)	Sample Measurement										
PARM Code 39161 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Atrazine (GWS = 3)	Sample Measurement										
PARM Code 39033 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(a)pyrene (GWS = 0.2)	Sample Measurement										
PARM Code 34247 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Carbofuran (GWS = 40)	Sample Measurement										
PARM Code 81405 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Chlordane (tech mix. and metabolites)(GWS = 2)	Sample Measurement										
PARM Code 39350 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dalapon (GWS = 200)	Sample Measurement										
PARM Code 38432 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Bis(2-ethylhexyl)adipate (GWS = 400)	Sample Measurement										
PARM Code 77903 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-ethylhexyl) phthalate (GWS = 6)	Sample Measurement										
PARM Code 39100 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Dibromochloropropane (DBCP) (GWS = 0.2)	Sample Measurement										
PARM Code 82625 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Dinoseb (GWS = 7)	Sample Measurement										
PARM Code 30191 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Diquat (GWS = 20)	Sample Measurement										
PARM Code 04443 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Endothall (GWS = 100)	Sample Measurement										
PARM Code 38926 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Endrin (GWS = 2)	Sample Measurement										
PARM Code 39390 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Ethylene dibromide (1,2-dibromoethane)(GWS = 0.02)	Sample Measurement										
PARM Code 77651 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Glyphosate (GWS = 0.7)	Sample Measurement										
PARM Code 79743 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP RWS-A

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Heptachlor (GWS = 0.4)	Sample Measurement										
PARM Code 39410 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Heptachlor epoxide (GWS = 0.2)	Sample Measurement										
PARM Code 39420 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorobenzene (GWS = 1)	Sample Measurement										
PARM Code 39700 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorocyclopentadiene (GWS = 50)	Sample Measurement										
PARM Code 34386 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Gamma BHC (Lindane) (GWS = 0.2)	Sample Measurement										
PARM Code 39782 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Methoxychlor (GWS = 40)	Sample Measurement										
PARM Code 39480 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Oxamyl (vydate) (GWS = 200)	Sample Measurement										
PARM Code 38865 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Pentachlorophenol (GWS = 1)	Sample Measurement										
PARM Code 39032 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Picloram (GWS = 500)	Sample Measurement										
PARM Code 39720 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Polychlorinated Biphenyls (PCBs)(GWS = 0.5)	Sample Measurement										
PARM Code 39516 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Simazine (GWS = 4)	Sample Measurement										
PARM Code 39055 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Toxaphene (GWS = 3)	Sample Measurement										
PARM Code 39400 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Trihalomethane, Total by summation(GWS = 0.080)	Sample Measurement										
PARM Code 82080 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	Grab
Radium 226 + Radium 228, Total (GWS = 5)	Sample Measurement										
PARM Code 11503 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	pCi/L			Annually	24-hr FPC
Alpha, Gross Particle Activity (GWS = 15)	Sample Measurement										
PARM Code 80045 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	pCi/L			Annually	24-hr FPC
Aluminum, Total Recoverable (GWS = 0.2)	Sample Measurement										
PARM Code 01104 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Chloride (as Cl) (GWS = 250)	Sample Measurement										
PARM Code 00940 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Iron, Total Recoverable (GWS = 0.3)	Sample Measurement										
PARM Code 00980 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Copper, Total Recoverable (GWS = 1,000)	Sample Measurement										
PARM Code 01119 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Manganese, Total Recoverable (GWS = 50)	Sample Measurement										
PARM Code 11123 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Beaches WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0040622-012-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Silver, Total Recoverable (GWS = 100)	Sample Measurement										
PARM Code 01079 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Sulfate, Total (GWS = 250)	Sample Measurement										
PARM Code 00945 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Zinc, Total Recoverable (GWS = 5,000)	Sample Measurement										
PARM Code 01094 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
pH (GWS = 6.5-8.5)	Sample Measurement										
PARM Code 00400 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	s.u.			Annually	Grab
Solids, Total Dissolved (TDS) (GWS = 500)	Sample Measurement										
PARM Code 70295 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Foaming Agents (GWS = 0.5)	Sample Measurement										
PARM Code 01288 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. Facilities who submit their DMR(s) electronically through eDMR do not need to submit a hardcopy DMR. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used, unless indicated otherwise in the permit or on the DMR:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign (" $<$ ") followed by the laboratory's MDL value, e.g. < 0.001 . A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units. Data qualifier codes are not to be reported on Part A.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Data qualifier codes are not to be reported on Part D.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

PATHOGEN MONITORING

Part I - Instructions

1. Completion of this report is required by Rules 62-610.463(4), 62-610.472(3)(d), 62-610.525(13), 62-610.568(11), 62-610.568(12), and 62-610.652(6)(c), F.A.C., for all domestic wastewater facilities that provide reclaimed water to certain types of reuse activities. The schedule for sampling and reporting shall be in accordance with the permit for the facility. If a schedule for sampling or re-sampling is not included in the permit, the following schedule shall apply:
 - a. Routine Sampling:

If sampling is required once every two years, this report shall be submitted on or before November 28 of each even numbered year (2006, 2008, 2010, etc.).

If sampling is required once every five years, this report shall be submitted with the application for permit renewal.

If sampling is required quarterly, this report shall be submitted on or before February 28, May 28, August 28, and November 28 of each year.
 - b. Subsequent Re-Sampling:

If subsequent re-sampling is required by Item 9 in Part I of this form, this form shall be submitted for the subsequent re-sampling(s) in accordance with the schedule established in Item 9 in Part I of this form.
2. Submit one copy of this form and a copy of the laboratory's final report for the analysis of *Giardia* and *Cryptosporidium* to each of the following two addresses:
 - a. Emailed to the DEP Central District Office (attention Domestic Wastewater Program) at dep_cd@dep.state.fl.us.
 - b. DEP Water Reuse Coordinator
Mail Station 3540
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
3. Please type or print legibly.
4. In Part II, Items 7 through 12 need to be completed only if this is the first submittal of this report, if the information in Items 7 through 12 has changed since the last submittal, or if the information in any of these questions has not been previously provided.
5. Part III is to be used when sampling for *Giardia* and *Cryptosporidium* at the treatment plant. Part III is also to be used when sampling for *Giardia* and *Cryptosporidium* in a supplemental water supply (see Rule 62-610.472, F.A.C.).

6. For each sample, record the sample volume obtained in liters.
7. For *Giardia*, record the concentrations in cysts per 100 liters. For *Cryptosporidium*, record the concentrations in oocysts per 100 liters. Sufficient sample volumes shall be collected and processed such that the detection limit is no greater than 5 cysts or oocysts per 100 liters. Detection levels on the order of 1 cyst or oocyst per 100 liters are recommended. If an observation is less than the detection limit, make an entry in the form "<2" (where 2 per 100 liters is the detection limit in this example). The actual detection limit will be dictated by the volumes of sample obtained, filtered, and processed. Do NOT record nondetectable values as zero.
8. EPA Method 1623 or other approved methods for reclaimed water or nonpotable waters, adjusted appropriately to accommodate the detection limit requirements, shall be used. Methods previously allowed for EPA's Information Collection Rule (ICR) shall not be used. The full requirements of the approved method, including quality assurance and quality control, are to be met. Quality assurance and sampling requirements in Chapter 62-160, F.A.C., shall apply.

Two concentrations of *Giardia* and *Cryptosporidium* shall be recorded on Part III of this form:

- a. Total cysts and oocysts shall be enumerated using EPA Method 1623 or other approved methods.
 - b. Potentially viable cysts and oocysts shall be enumerated using the DAPI staining technique contained in EPA Method 1623 or similar enumeration techniques included in other approved methods. Cysts and oocysts that are stained DAPI positive or show internal structure by D.I.C. shall be considered as being potentially viable. If the laboratory reports separate values for DAPI positive and for cysts or oocysts having internal structure, the larger of the two concentrations will be reported as being potentially viable.
9. If the number of potentially viable cysts of *Giardia* reported exceeds 5 per 100 liters, a subsequent sample shall be taken and analyzed using EPA Method 1623 or other approved methods and reported using this form. If the number of potentially viable oocysts of *Cryptosporidium* reported exceeds 22 per 100 liters, a subsequent sample shall be taken and analyzed using EPA Method 1623 or other approved methods and reported using this form. This subsequent sample shall be collected within 90 days of the date the initial sample was taken, analyzed for both *Giardia* and *Cryptosporidium*, and the results of the subsequent analysis shall be submitted to DEP using this form within 60 days of sample collection.
 10. Rule 62-160.300, F.A.C., requires that all laboratories generating environmental data for submission to the DEP shall hold certification from the Department of Health's (DOH) Environmental Laboratory Certification Program (ELCP). Certification by the ELCP for analysis of *Giardia* and *Cryptosporidium* using EPA Method 1623 for non-potable waters is required. If other approved methods are used, certification by the ELCP is required for the specific method and for the test matrix. Lists of certified laboratories can be found at www.dep.state.fl.us/labs/cgi-bin/aams/index.asp
 11. Samples shall be collected during peak flow periods (normally between the hours of 8:00 a.m. and 6:00 p.m.).
 12. Recognizing that concentrations of these pathogens generally increase during the late summer through fall period, it is recommended that utilities sample during the August through October time period.
 13. If the wastewater treatment facility uses chlorination for disinfection, samples obtained for analysis of *Giardia* and *Cryptosporidium* shall be dechlorinated.

14. When sampling at the treatment facility, obtain a grab sample for total suspended solids (TSS) that is representative of the water leaving the filters at the treatment facility during the period when pathogen samples are being obtained. In addition, record the highest turbidity and the lowest total chlorine residual observed during the period when pathogen samples are being obtained.
15. When sampling a supplemental water supply, obtain a grab sample for total suspended solids (TSS) that is representative of the surface water or treated stormwater as it is added to the reclaimed water system. This TSS sample shall be taken during the period when pathogen samples are being obtained. In addition, record the lowest total chlorine residual observed during the period when pathogen samples are being obtained.

Part II - General Information

1. DEP wastewater facility identification number: **FL0040622**

Wastewater facility name: BCUD/South Beaches

Permittee name: Brevard County Util Serv Department

2. Person completing this form:

Name: _____

Telephone: (_____) _____

Email address: _____

3. Sampling and analysis:

Date samples were taken: _____

Organization collecting the samples: _____

Was the sample dechlorinated in the field? ☐ Yes ☐ No

Was the sample refrigerated or kept on ice during shipment to the laboratory? ☐ Yes ☐ No

Date samples delivered to laboratory: _____

Date analytical work was done: _____

Laboratory doing the analysis: _____

Laboratory's DOH Identification Number: _____

Approved method used:

☐ EPA Method 1623

☐ Other approved method: _____

Contact person at the laboratory: _____

Email address of the lab contact person: _____

4. Is this the first time that this form has been submitted for the facility?

☐ Yes [Please complete Questions 7 through 16.]

☐ No [Proceed to Question 5.]

5. Is this a report of "subsequent re-sampling" required by Item 9 in Part I of this form based on concentrations of potentially viable cysts or oocysts in a previous sampling?

☐ No [Proceed to Question 6.]

☐ Yes [Attach a description of any facility or operational changes made to the treatment facilities since the time of the previous sampling and proceed to Question 6.]

6. Has the information requested in Questions 7 through 12 (below) changed since the last submittal of this form?

☐ Yes [Please complete Questions 7 through 16.]

☐ No [Proceed to Questions 13 through 16 of Part II of this form. You do not need to complete Questions 7 through 12.]

7. Type of secondary treatment system:

☐ Conventional activated sludge

☐ Extended aeration

☐ Contact stabilization

☐ Biological nutrient removal (such as Bardenpho)

☐ Other: _____

8. Does this treatment facility nitrify (convert ammonia nitrogen to nitrate)? ☐ Yes ☐ No

9. Filter type:

☐ Deep bed, single media

☐ Deep bed, multiple media

☐ Shallow bed, automatic backwash

☐ Upflow (including Dynasand)

☐ Slow rate sand filter

☐ Diatomaceous earth filter

☐ Fabric filter

☐ Cartridge filter

☐ Membranes (microfiltration, ultrafiltration, membrane bioreactor, reverse osmosis)

☐ Other: _____

10. Filter Media (complete for each type of media provided):

Top layer of media: Media type: _____

Effective size: _____ mm

Uniformity coefficient: _____

Bed depth: _____ inches

Middle layer of media: Media type: _____

Effective size: _____ mm

Uniformity coefficient: _____

Bed depth: _____ inches

Bottom layer of media: Media type: _____

Effective size: _____ mm

Uniformity coefficient: _____

Bed depth: _____ inches

11. Filter backwash water:

☐ Backwash water is returned to the headworks of the treatment plant.

☐ Backwash water is returned to the aeration basin.

☐ Other. Please describe: _____

12. Disinfection system:

☐ Chlorination, gas

☐ Hypochlorite

☐ Chlorine dioxide

☐ Chlorination, other _____

☐ Ultraviolet

☐ Ozone

☐ Other: _____

13. Is chlorine added before the filters? ☐ No ☐ Yes Dose: _____ mg/L

14. During the period that samples were taken, did you add a coagulant, coagulant aid, polyelectrolyte, or other chemical to enhance filtration?

☐ No

☐ Yes. Please list the chemicals being added and their dose.

Chemical 1 - Name: _____ Dose: _____ mg/L

Chemical 2 - Name: _____ Dose: _____ mg/L

Chemical 3 - Name: _____ Dose: _____ mg/L

15. Wastewater treatment plant permitted capacity: _____ MGD

16. Wastewater flow being treated at the time samples were collected: _____ MGD

PART III - PATHOGEN MONITORING REPORT

FACILITY ID: FL0040622

FACILITY NAME: BCUD/South Beaches

FACILITY ADDRESS: 2800 S Highway A1A, Melbourne Beach, FL 32951-2811

PERMITTEE NAME: Brevard County Util Serv Department

MAILING ADDRESS: 2725 Judge Fran Jamieson Way, BLDG. A-213, Melbourne, Florida 32940-6605

DATE OF SAMPLING: _____

Parameter	Quantity or Loading		Quality or Concentration	
	Sample Measurement	Units	Sample Measurement	Units
Treatment Plant: After Filter Monitoring Site No.				
Turbidity PARM Code 00070				NTU
TSS PARM Code 00530				mg/L
Treatment Plant: After Disinfection Monitoring Site No.				
Total Chlorine Residual PARM Code 50060				mg/L
Volume Collected PARM Code 71994		Liters		
<i>Giardia</i> , total count * PARM Code GIARD				total cysts/100 L
<i>Giardia</i> , potentially viable cysts * PARM Code VGIAR				potentially viable cysts/100 L
<i>Cryptosporidium</i> , total count * PARM Code CRYPT				total oocysts/100 L
<i>Cryptosporidium</i> , potentially viable oocysts * PARM Code VCRYP				potentially viable oocysts/100 L
Supplemental Water Supply (surface water or stormwater): After Treatment & Disinfection Monitoring Site No.				
TSS PARM Code 00530				mg/L
Total Chlorine Residual PARM Code 50060				mg/L
Volume Collected PARM Code 71994		Liters		
<i>Giardia</i> (total count) * PARM Code GIARD				total cysts/100 L
<i>Giardia</i> , potentially viable cysts * PARM Code VGIAR				potentially viable cysts/100 L
<i>Cryptosporidium</i> , total count * PARM Code CRYPT				total oocysts/100 L
<i>Cryptosporidium</i> , potentially viable oocysts * PARM Code VCRYP				potentially viable oocysts/100 L

* Data entries must be made for both total and potentially viable cysts and oocysts.

PART IV - CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name/Title of Principle Executive Officer or Authorized Agent (Type or Print)	Signature of Principle Executive Officer or Authorized Agent	Telephone No.	Date (YY/MM/DD)
Email Address			

**FACT SHEET
FOR
STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FL0040622-012 (Minor)

FACILITY NAME: BCUD/South Beaches

FACILITY LOCATION: 2800 S Highway A1A, Melbourne Beach, FL 32951-2811
Brevard County

NAME OF PERMITTEE: Brevard County Utility Services Department

PERMIT WRITER: Charles LeGros

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FL0040622-012-DW1P

Application Submittal Date: September 7, 2018 and additional information December 5, 2018

b. Type of Facility

Domestic Wastewater Treatment Plant

Ownership Type: County

SIC Code: 4952

c. Facility Capacity

Existing Permitted Capacity: 8.0 MGD Annual Average Daily Flow

Proposed Increase in Permitted Capacity: 0 MGD Annual Average Daily Flow

Proposed Total Permitted Capacity: 8.0 MGD Annual Average Daily Flow

d. Description of Wastewater Treatment

An existing 8.0 MGD annual average daily flow (AADF) activated sludge domestic wastewater treatment facility consisting of two (2) contiguous wastewater treatment plants (a 6.0 MGD dual train carousel oxidation ditch and a 2.0 MGD activated sludge plant), connected in parallel with mechanical influent screening, grit removal, aeration, clarification, chemical feed facilities, disinfection by chlorination, tertiary filtration, dechlorination, and dewatering of biosolids.

e. Description of Effluent Disposal and Land Application Sites (as reported by applicant)

Surface Water Discharge D-001: An existing 0.110 MGD AADF permitted capacity discharge to Indian River Lagoon, Class III Marine waters. This segment of the Indian River is designated as Water Body Identification (WBID) # 2963A1, which is identified for assessment purposes as Class II waters since the majority of the WBID is Class II waters to the *south* of the discharge point, but the point of discharge is not in Class II waters. The 0.110

MGD discharge is authorized at Discharge location D-001 for a period not to exceed five (5) days during the Mechanical Integrity Testing of the facility's underground injection control well, in accordance with Conditions I.A.9 through I.A.12 of this permit. The permitted discharge of 8.0 MGD over five (5) days equates to an Annual Average Daily Flow of 0.11 MGD. The point of discharge is located approximately at latitude 28°2' 31" N, longitude 80°33' 1" W.

Underground Injection U-001: An existing 8.0 MGD AADF permitted capacity underground injection well system consisting of one (1) Class I underground injection well permitted under Department permit number 05-0185898-004 discharging to Class G-IV ground water. The capacity of the well is being rerated in this permit to 9.0 MGD annual average daily flow permitted capacity to match the permit for the well. Underground Injection Well System U-001 is located approximately at latitude 28°2' 27" N, longitude 80°32' 49" W.

Land Application R-001: An existing 3.0 MGD AADF permitted capacity slow-rate public access system. R-001 is a reuse system which consists of a reclaimed water transmission/distribution system for public access irrigation within the Reuse Service Area, as shown on the attached map. The existing reuse capacity is 1.293 MGD AADF, with a total anticipated reuse capacity of 3.0 MGD AADF, as listed in Condition IV.A.1. of this permit. Reclaimed water is stored in an existing stormwater retention pond system located at the Spessard Holland Golf Course that has a combined storage capacity of 4.31 mg. The 4.31 MG stormwater retention pond system consists of seven ponds that are interconnected with underground culvert pipes at the golf course. The pond system has an intermittent discharge from Pond 6 to adjacent drainage features, which ultimately discharges to the Indian River Lagoon. Discharge of reclaimed water to this stormwater retention pond system shall be in accordance with Condition IV.16. of this permit.

2. SUMMARY OF SURFACE WATER DISCHARGE

This facility does not have a new or expanded discharge to surface waters.

The Department does not anticipate adverse impacts on threatened or endangered species as a result of permit issuance.

Pollutants which are present in significant quantities or which are subject to permit limitations are as follows:

Parameters	Reported Data from discharge Sept 2017 – October 2017*		
	Ann. Avg.	Lowest Monthly Avg.	Highest Monthly Avg.
Flow (River Discharge), MGD	0.268		2.091
CBOD ₅ (effluent), mg/L – single sample maximum	NA		20.8
Total Suspended Solids (effluent), mg/L – single sample maximum	NA	<1.0	11.9
Fecal Coli. Bacteria, #/100 ml	0.4	0.7	8.1
Enterococci, #/100 ml	NA	3.1	5.3
TRC, (after dechlorination), mg/L - single sample maximum	NA		0.06
pH (single sample)	NA	7.2	7.6
Total Nitrogen, mg/L – single sample maximum	NA	5.8	7.7

Parameters	Reported Data from discharge Sept 2017 – October 2017*		
Total Phosphorus, mg/L	NA	0.8	1.4
Dissolved Oxygen, mg/L (single sample)	NA	3.3**	5.0

* The facility has had three discharge events. The March 2017 discharge event was associated with the Mechanical Integrity Testing of the Deep Injection Well. The discharge events in October 2016 and September through October 2017 were associated with two (2) Hurricanes and unseasonably high rainfall amounts. The surface water discharge that occurred October 8, 2016, to October 12, 2016, was associated with Hurricane Matthew. Influent flows to the WWTF ranged from 9.8 MGD to 11 MGD during this time. These flows exceed the capacity of the deep injection well and required surface water discharge. A surface water discharge occurred from September 11, 2017, to October 31, 2017, not associated with mechanical integrity testing of the deep injection well. This surface water discharge was associated with the high rainfall that occurred during and after Hurricane Irma. Elevated inflow, above 8.0 MGD AADF, persisted from September 10, 2017, through November 8, 2017. These high inflows can be assumed to be the result of Infiltration and Inflow in the collection system. The flow exceeded the capacity of the deep injection well (9.0 MGD) for 50 consecutive days, necessitating a surface water discharge event. The permitted limits on TRC (for disinfection) CBOD₅, TRC (for dechlorination), and Dissolved Oxygen were exceeded during Hurricane Irma when the total flow fluctuated from 8.4 MGD to 16.38 MGD. The suddenness of the flow increase and the day-to-day variation in flow made the operation of the biological and disinfection/dechlorination system difficult.

The county has implemented an intensive program to reduce inflow and infiltration and in their collection system and are under previously issued Consent Orders (issued during the last permit cycle) as noted in #9 below. The county is leveling the onsite outfall storage pond and constructing a baffle berm to be able to retain more water on site and prevent premature discharge. Longer detention in the pond during non-emergency conditions should also aid in lowering dechlorination levels.

**The facility has moved the dissolved oxygen (DO) sampling point to below the outfall weir which should result in higher DO and more adequately demonstrate the quality of water being discharged from D-001.

The Department does not anticipate adverse impacts on threatened or endangered species as a result of permit issuance.

3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

This facility is authorized to discharge effluent from Outfall D-001 to Indian River Lagoon based on the following:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (to D-001)	MGD	Max	0.11	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20	Single Sample	90-262, Laws of FL 403.086(4)(a) FS BPJ,
Solids, Total Suspended	mg/L	Max	20	Single Sample	90-262, Laws of FL 403.086(4)(a) FS BPJ,
Coliform, Fecal	#/100mL	Max	14	Annual Average	62-600.440(7)(a)1. FAC
		Max	14	Monthly Median	62-600.440(7)(a)2. FAC
		Max	86	Single Sample	62-600.440(6)(c)2. FAC
Enterococci	#/100mL	Max	35	Monthly Geometric Mean	62-600.520(5) FAC
		Max	130	90th Percentile	62-600.520(5) FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
pH	s.u.	Max	8.5	Single Sample	62-600.430, 62-302.530(52) & 62-650 FAC
		Min	6.5	Single Sample	62-600.430, 62-302.530(52) & 62-650 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	62-600.440(7)(c) FAC
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	62-600.440(2) & 62-302.530(19) FAC
Nitrogen, Total	mg/L	Max	12.0	Single Sample	62-600.740(1)(b)2.b. FAC
Phosphorus, Total (as P)	mg/L	Max	4.0	Single Sample	62-600.740(1)(b)2.b. FAC
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	62-302.530(31) FAC
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	62-302.200(1), 62-302.500(1)(a)4 & 62-4.241(1)(a) FAC
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsii)	percent	Min	100	Single Sample	62-302.200(1), 62-302.500(1)(a)4 & 62-4.241(1)(a) FAC
Phosphorus, Total (as P)	lb/yr	Max	36.0	Annual Total	62-304.520 FAC
		Max	Report	Monthly Total	62-304.520 FAC
Nitrogen, Total	lb/yr	Max	173.0	Annual Total	62-304.520 FAC
		Max	Report	Monthly Total	62-304.520 FAC

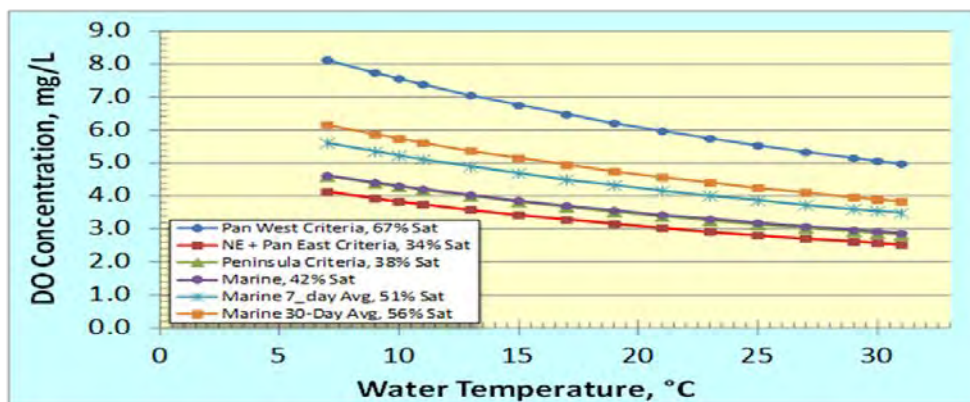
The proposed effluent limitations for Part I.A.1. will apply during the period when the Mechanical Integrity Test (MIT) for the injection well is performed. The discharge is limited to no more than five (5) days per five-year permit period, during the Mechanical Integrity Testing of the UIC well, if necessary.

In addition to the specified limits, the monthly average effluent concentration for total suspended solids shall not exceed 15% of the respective influent value (i.e., 85% removal). [62-600.420(1) and (2)] Because of the limited number of days for discharging, the sampling frequency for CBOD₅, TSS, fecal coliform, TN and TP is required to be daily (during discharge).

Enterococci Bacteria: New water quality criteria in Rule 62-302.530, F.A.C. has been revised and adopted to include Enterococci Bacteria. The facility previously had a monthly geometric mean limit. The new permit includes a new 90th percentile limit. The new 90th percentile limit 130 #/100mL in the rule will apply to the facility. The rule requires a minimum of 10 samples to calculate the value or the limit will not apply.

Because there is no established relationship between fecal coliform and enterococci bacteria, limitations based on both the disinfection requirements for fecal coliform from Rule 62-600.440, F.A.C., and based on the bacteriological water quality standards for enterococci for discharges to Class III predominately marine waters under Rule 62-302.530, F.A.C., have been included in the permit.

Dissolved Oxygen: The single sample dissolved oxygen (DO) minimum remains 5.0 in accordance with the new FDEP dissolved oxygen criteria (effective August 2013 and accepted by EPA September 2013) which is based on saturation. The single sample limit of 5.0 is as stringent as or more stringent than the new criteria. As seen in the attached graph, the state peninsula (area) criteria at 38% saturation and marine criteria at 42% are always below a DO of 5.0 independent of the temperature.



Total Ammonia Nitrogen (TAN):

The new TAN effluent limit was not included in this permit since the facility did not previously have an ammonia limit and there is no new or expanded discharge.

Nutrient TMDL March 2009

The Total Maximum Daily Load (TMDL) for the Indian River Lagoon was adopted by DEP in March 2009 and finalized by EPA in April 2009. The TMDL includes a wasteload allocation of:

173 lb/year for Total Nitrogen
36 lb/year for Total Phosphorus

The BCUD South Beaches WWTF and the associated TMDL is listed in the January 2013 Indian River Lagoon Basin Central Indian River Lagoon Basin Action Management Plan (BMAP).

The WBID2963A1 - bacteria (shellfish harvesting classification). This waterbody is listed as impaired because the shellfish harvesting classification is not fully approved by the Shellfish Environmental Assessment Section (SEAS) of the Department of Agriculture. This parameter is being added to the 303(d) list.

The WBID2963A1 - fecal coliform. This parameter is being added to the verified list and the department is requesting addition to the 303(d) list.

Pollutants of concern were identified for WQBEL development based on an evaluation of all available information, including a characterization of the pollutants that may be discharged, fifth year inspection data, the sources of pollutants, existing controls on pollutants, available dilution, background pollutant levels in the receiving waters, and the toxicity of pollutants.

Unless otherwise noted, effluent limitations were developed by applying water quality criteria at the end of pipe.

This facility has provided reasonable assurance that the discharge will not adversely affect the designated use of the receiving water. Fifth year inspection data, as well as all other available data, have been evaluated in accordance with the Department's reasonable assurance procedures to ensure that no limits other than those included in this permit are needed to maintain Florida water quality standards.

This facility is authorized to discharge reclaimed water to Underground Injection Well System U-001 which consists of 1 Class I injection wells discharging to Class G-IV ground water based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (to U-001)*	MGD	Max	9.0	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-600.540(1) & 62-600.420(3)(a)1. FAC
		Max	30.0	Monthly Average	62-600.420(3)(a)2. FAC
		Max	45.0	Weekly Average	62-600.420(3)(a)3. FAC
		Max	60.0	Single Sample	62-600.420(3)(a)4. FAC
Solids, Total Suspended	mg/L	Max	20.0	Annual Average	62-600.540(1) & 62-600.420(3)(b)1. FAC
		Max	30.0	Monthly Average	62-600.420(3)(b)2. FAC
		Max	45.0	Weekly Average	62-600.420(3)(b)3. FAC
		Max	60.0	Single Sample	62-600.420(3)(b)4. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC

*The capacity of the injection well was increased from 8.0 to 9.0 MGD AADF to match the FDEP Underground Injection Control (UIC) Program permit.

This facility is authorized to direct reclaimed water to Reuse System R-001, a slow-rate public access system, based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (To Reuse)	MGD	Max	3.0	Annual Average	62-600.700(2)(b) & 62-610.810(5) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) & 62-610.810(5) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.460 & 62-600.420(3)(a)1. FAC
		Max	30.0	Monthly Average	62-610.460 & 62-600.420(3)(a)2. FAC
		Max	45.0	Weekly Average	62-610.460 & 62-600.420(3)(a)3. FAC
		Max	60.0	Single Sample	62-610.460 & 62-600.420(3)(a)4. FAC
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	62-610.460(1) & 62-600.440(6)(a)3. FAC
Coliform, Fecal	#/100mL	Max	25	Single Sample	62-610.460 & 62-600.440(6)(a)2. FAC
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	62-610.460 & 62-600.440(6)(a)1. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	62-600.440(6)(b), 62-610.460(2), & 62-610.463(2) FAC
Turbidity	NTU	Max	Report	Single Sample	62-610.463(2) FAC
Nitrogen, Total	mg/L	Max	Report	Annual Average	62-600.650(3) FAC
		Max	Report	Monthly Average	62-600.650(3) FAC
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Average	62-600.650(3) FAC
		Max	Report	Monthly Average	62-600.650(3) FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Giardia	cysts/100L	Max	Report	Single Sample	62-610.463(4) FAC
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	62-610.463(4) FAC

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (Total through facility)	MGD	Max	8.0	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
		Max	Report	Quarterly Average	62-600.700(2)(b) FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	62-600.405(4) FAC
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC
Monitoring Frequencies and Sample Types	-	-	-	All Parameters	62-600 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Locations	-	-	-	All Parameters	62-600, 62-610.412, 62-610.463(1), 62-610.568, 62-610.613 FAC and/or BPJ of permit writer

4. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FL0040622-007-DW1P was issued on March 13, 2014 and expires on March 12, 2019. Permit revision FL0040622-008 was issued on October 16, 2016 and required the facility to follow new electronic submittal requirements. Permit revision FL0040622-009 was issued on March 9, 2017 was issued to level the onsite outfall storage pond and to construct a baffle berm to prevent premature discharge. Permit revision FL0040622-010 was issued on April 26, 2017 and allowed modifications to the clarifiers pumping systems and the chlorine feed systems. Permit revision FL0040622-011 was issued on August 8, 2017 to allow upgrading of the three reclaimed water high service pumps.

Historical:

Subsection 2(3)(a) of Chapter 90-262 Laws of Florida., Indian River Lagoon Protection Act (ACT), allows discharge to the Indian River Lagoon if the facility provides at least advanced waste treatment (AWT). According to 403.086(4)(a) FS, the annual averages for CBOD5, TSS, TN and TP for an AWT facility are 5 mg/L, 5 mg/L, 3 mg/L and 1 mg/L, respectively. The proposed daily maximum limits for CBOD5, TSS, TN and TP are 20 mg/L, 20 mg/L, 12 mg/L and 4 mg/L, respectively and are derived from 25% (91 days /365 days) of a normal year discharge allowance for an AWT facility for a limited wet weather discharge period lasting 91 days. The proposed discharge period for this facility is for 5 days only during the mechanical integrity test (MIT) for the injection well. The proposed one-time single sample effluent limitations for CBOD5, TSS, TN and TP are equivalent to AWT multipliers. Since this permit authorizes only a 5 days discharge to the Indian River, the discharge loading allocation is more stringent than an AWT equivalent level. The proposed limits for CBOD5, TSS, TN and TP were previously allowed for the discharge from the

last MIT for this facility. It is the permit writer's Best Professional Judgment that the proposed limits are therefore consistent with the requirements of the ACT and with previous Department permitting policy and guidelines. These concentrations are still appropriate in conjunction with the loading limits described below.

The Total Maximum Daily Load (TMDL) for the Indian River Lagoon was finalized by EPA in April 2007 and adopted by DEP in March 2009. The TMDL includes a wasteload allocation of:

173 lb/year for Total Nitrogen
36 lb/year for Total Phosphorus

The point of discharge is clearly located in Class III marine waters, WBID 2963A1 (previously assessed as WBID 2963A). Although the WBID was revised to Class II waters during the Cycle 2 assessment, to better represent the watershed, the discharge point is located north of the Outstanding Florida Waters segment of the "Indian River – Malabar to Vero Beach Aquatic Preserve" and is north of Class II designated waters. However, the whole WBID is identified as Class II because of the large portion of the WBID within the Class II waters.

5. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be disposed of in a Class I solid waste landfill.

See the table below for the rationale for the biosolids quantities monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Monitoring Frequency	All Parameters				62-640.650(5)(a) FAC

6. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring requirements have been established in accordance with Chapters 62-520, 532, 600, 610, and 620, F.A.C.

Parameters Arsenic, Cadmium, Chromium, Sulfate and Lead are currently not included in the Ground Water Monitoring Plan (GWMP) because they are not believed to be present in the effluent. However, if the Department has any reasons in the future to believe that these metals are present in the effluent, they will be added to the Ground Water Monitoring Plan sampling list.

Total Trihalomethanes (TTHMs) were recorded in the Effluent Analysis Report at a concentration of 0.15 mg/l, which is above the MCL of 0.080 mg/l. TTHMs have been monitored in the groundwater monitoring wells in a past permit cycle and no exceedances have been recorded. Therefore, this parameter will not be added to the GWMP.

The permittee shall sample the following monitoring well(s): MWC-1 for the primary and secondary drinking water parameters included in Rules 62-550.310 and 62-550.320, F.A.C., (except for asbestos and all parameters in Table 5 of Chapter 62-550, F.A.C., other than Di(2-ethylhexyl) adipate and Di(2-ethylhexyl) phthalate). Results of this sampling shall be submitted to the Department's Central District Office with the application for permit renewal. Sampling shall occur no sooner than 180 days before submittal of the renewal application. [62-520.600(5)(b)]

Please note that total dissolved solids, chloride, and sodium concentrations in the groundwater from the monitoring wells and in the effluent from the reclaimed water analysis continue to exceed their MCL concentrations even in the background well. Please continue to address the inflow and infiltration issues and reduce the total dissolved solids, chloride and sodium concentrations in the effluent as much as possible.

This location is a barrier island, which may cause the TDS, chloride and sodium in the groundwater to be above the groundwater standards.

7. PERMIT SCHEDULES

This permit does not include schedules.

8. INDUSTRIAL PRETREATMENT REQUIREMENTS

At this time, the facility is not required to develop an approved industrial pretreatment program. However, the Department reserves the right to require an approved program if future conditions warrant.

9. ADMINISTRATIVE ORDERS (AO) AND CONSENT ORDERS (CO)

This permit is not accompanied by an AO or CO. The permittee has entered into two COs with the Department during the last permit cycle. CO 18-0068 was executed on February 27, 2018 and was related to waste water spills in the collection system. CO 16-1352 was executed on November 18, 2016 and was also related to a large spill in the collection system.

The county has implemented a significant program to reduce inflow and infiltration and in their collection system.

10. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

11. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received, and additional information is available for public inspection at:

[https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=hitlist&\[freeText=\]&\[folderName=\]&\[profile=Permitting_Authorization\]&\[creator=\]&\[entityType=any\]&\[createdDateTo=\]&\[catalog=38\]&\[searchBy=Profile\]&\[sortBy=Document+Date\]&\[createdDate=\]&{County= EQ_BREVARD}&{District= EQ_CD}&{Facility-Site+ID= EQ_FL0040622}&{Received+Date= RG_\(09-01-2018,01-23-2019\)}&{Permit+Type= EQ_DW+-+DOMESTIC+WASTEWATER+FACILITY}&{Facility+Type= LK_DOMESTIC+WASTEWATER}](https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=hitlist&[freeText=]&[folderName=]&[profile=Permitting_Authorization]&[creator=]&[entityType=any]&[createdDateTo=]&[catalog=38]&[searchBy=Profile]&[sortBy=Document+Date]&[createdDate=]&{County= EQ_BREVARD}&{District= EQ_CD}&{Facility-Site+ID= EQ_FL0040622}&{Received+Date= RG_(09-01-2018,01-23-2019)}&{Permit+Type= EQ_DW+-+DOMESTIC+WASTEWATER+FACILITY}&{Facility+Type= LK_DOMESTIC+WASTEWATER})

12. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft Permit and Public Notice to Applicant and EPA	January 24, 2019
Public Comment Period	Beginning: February 1, 2019 Ending: March 2, 2019
Proposed Permit to EPA	January 24, 2019
Notice of Intent to Issue	March 5, 2019

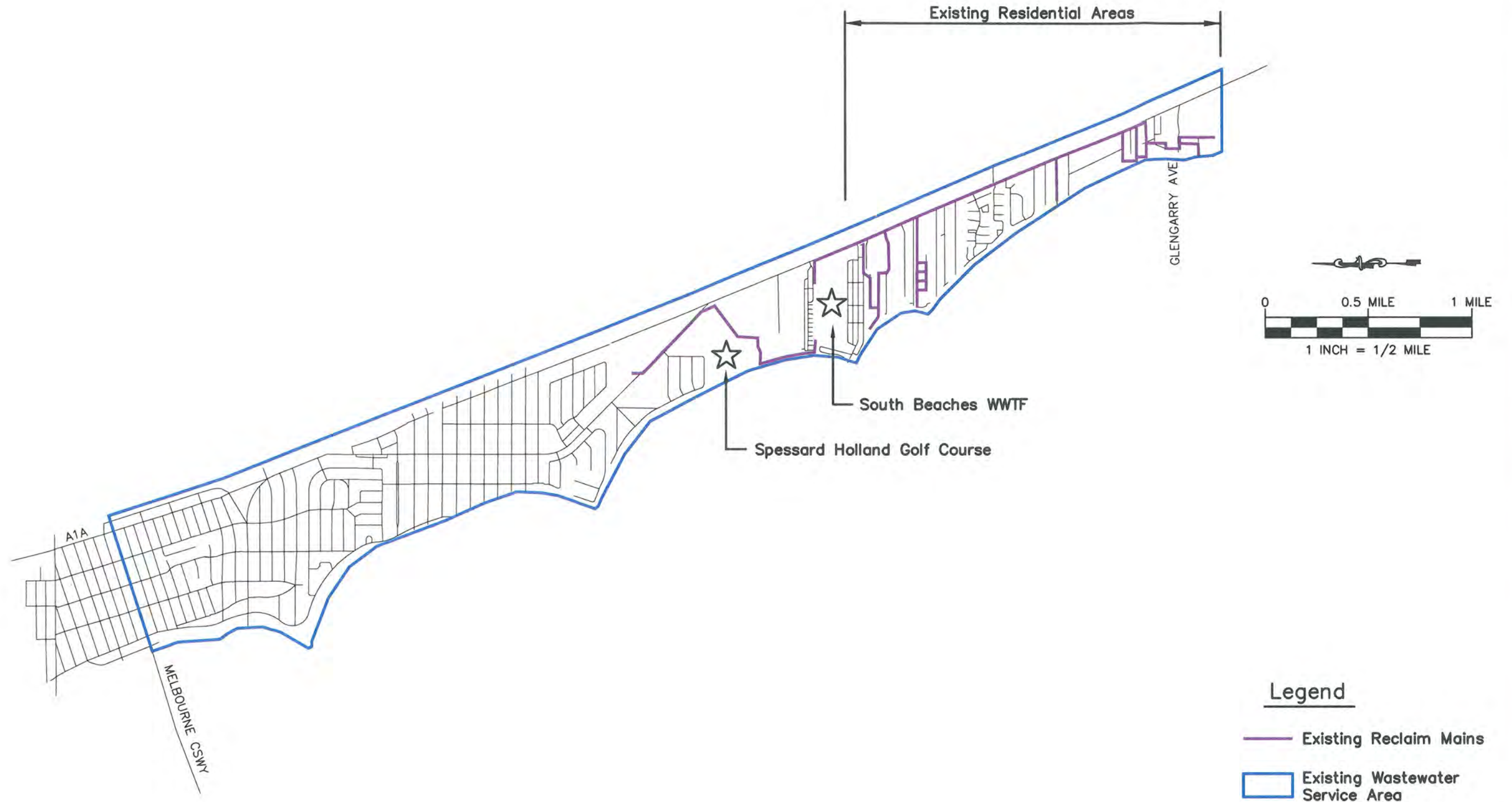
13. DEP CONTACT

Additional information concerning the permit and proposed schedule for permit issuance may be obtained during normal business hours from:

Charles LeGros
Environmental Consultant
Central District Office
Charles.legros@dep.state.fl.us

3319 Maguire Blvd
Suite 232
Orlando, FL 32803-3767

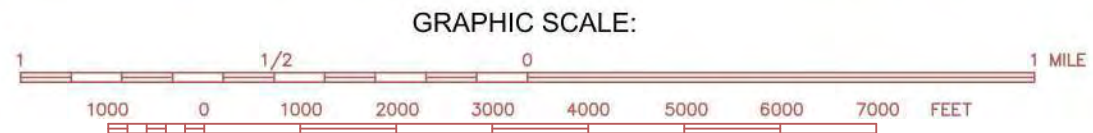
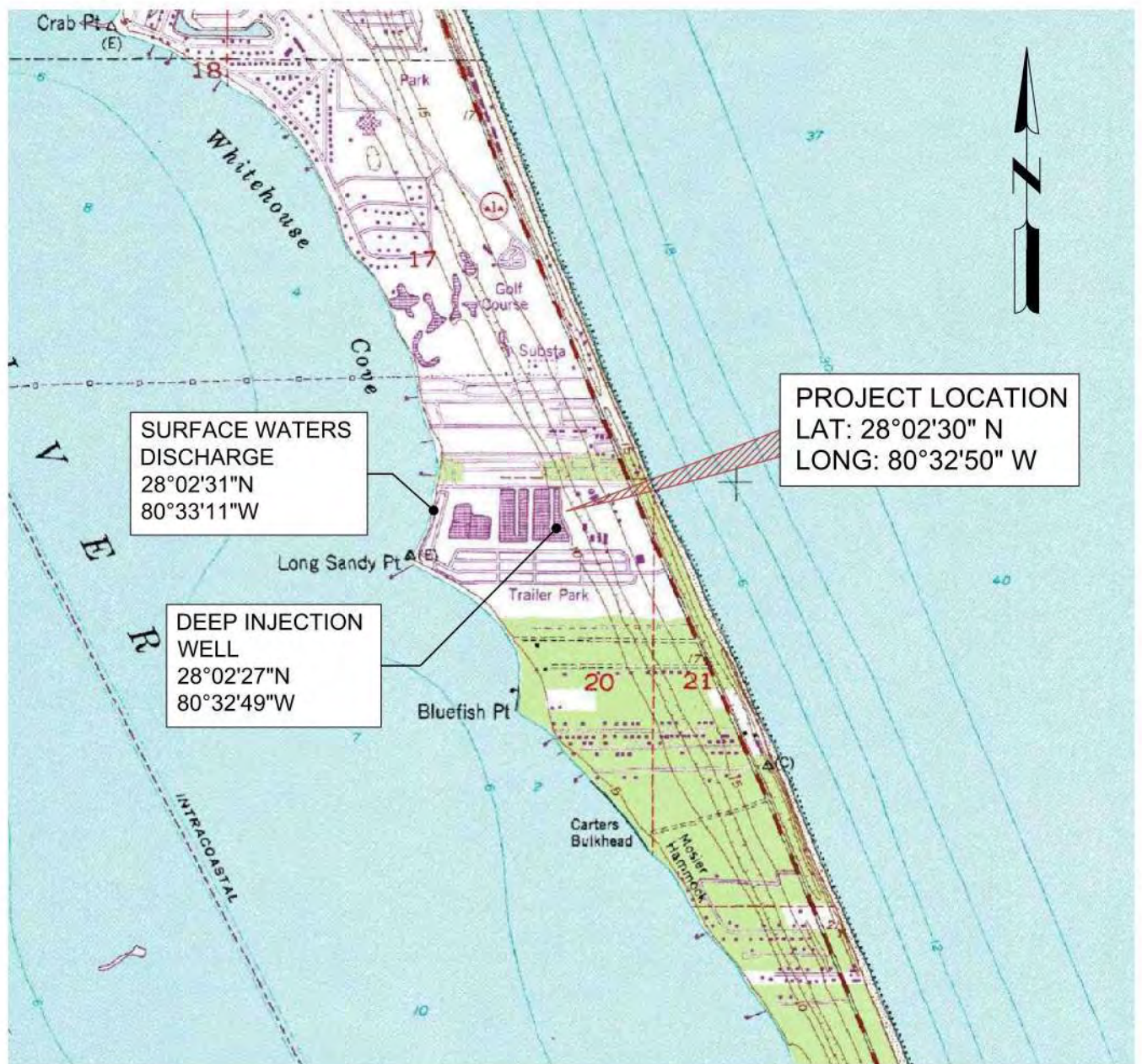
Telephone No.: (407) 897-4158



QUENTIN L. HAMPTON ASSOCIATES, INC. CONSULTING ENGINEERS
P.O. DRAWER 290247 PORT ORANGE, FLORIDA 32129-0247 (386)761-6810 07/2013

SOUTH BEACHES RECLAIMED WATER
SERVICE AREAS

FIGURE 2
CAPACITY ANALYSIS REPORT



LOCATION MAP

SECTION 20
TOWNSHIP 28S
RANGE 38E

MELBOURNE EAST, FLA.
U S C & G QUADRANGLE



BREVARD COUNTY, FLORIDA
SOUTH BEACHES WASTEWATER
TREATMENT FACILITY

PROJECT #
1000701-181022.01
07/2018

**Mead
& Hunt**
FIGURE #1

This page intentionally left blank



SOUTH CENTRAL REGIONAL WATER RECLAMATION FACILITY



NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION PLAN

OCTOBER 2021

This page intentionally left blank

Cover Sheet for Plan Submittal

Facility Name BCUD - South Central Regional WRF

Facility ID FL0102679

Contact Person Name, Title, Phone, Email Edward Fontanin, P.E., Utility Services Director
Brevard County Utility Services Department, (321) 633-2093; edward.fontanin@brevardfl.gov

If the requirement for a plan does not apply to the facility, please mark which exemption applies (attach documentation demonstrating that the facility meets the exemption) **Not Applicable**

Check One	Exemption
	Facility is in a fiscally constrained county as described in section 218.67(1), F.S.
	Facility is in a municipality that is entirely with a rural area of opportunity as designated pursuant to section 288.0656, F.S.
	Facility is in a municipality that has less than \$10 million in total revenue, as determined by the municipality's most recent annual financial report submitted to the Department of Financial Services in accordance with section 218.32, F.S.
	Facility is operated by an operator of a mobile home park as defined in section 723.003, F.S., and has a permitted capacity of less than 300,000 gallons per day.

Indicate which plan(s) category under which the facility will comply

Check One	Plan Category
	The plan eliminates the discharge.
	The plan meets section 403.086(10), F.S.
	The plan does not eliminate the discharge – The discharge is associated with an indirect potable reuse project;
	The plan does not eliminate the discharge – The discharge is a wet weather discharge that occurs in accordance with an applicable department permit;
	The plan does not eliminate the discharge – The discharge is into a stormwater management system and is subsequently withdrawn by a user for irrigation purposes;
X	The plan does not eliminate the discharge – The utility operates the domestic wastewater treatment facilities with reuse systems that reuse a minimum of 90 percent of a facility's annual average flow, as determined by the department using monitoring data for the prior 5 consecutive years, for reuse purposes authorized by the department; or
	The plan does not eliminate the discharge – The discharge provides direct ecological or public water supply benefits, such as rehydrating wetlands or implementing the requirements of minimum flows and minimum water levels or recovery or prevention strategies for a waterbody.

Please enter the information on discharges eliminated **Not Applicable**

Discharge Type (effluent, reclaimed water, or reuse water)	Average Gallons Per Day	Date the discharge will be eliminated

Please enter information on any continuing discharges to surface waters after January 1, 2032.

Discharge Allowance Category	Discharge Type (effluent, reclaimed water, or reuse water)	Average Gallons Per Day	Treatment Level Provided (e.g. BOD limit = 5mg/L, TSS = 5 mg/L, TN = 3mg/L, TP = 1mg/L and high-level disinfection)
Meets section 403.086(10), F.S.			
Associated with an indirect potable reuse project.			
Wet weather discharge in accordance with an applicable department permit.			
Discharge into a stormwater management system that is subsequently withdrawn by a user for irrigation purposes.			
Reuse system reuses a minimum of 90 percent of a facility's annual average flow.	Reclaimed Water	Up to 0.99 MGD AADF per Permit	AWT and high-level disinfection are provided at the SCRWRP
Discharge provides direct ecological or public water supply benefits.			

Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
Authorized Signatory Representative Name <i>and Official Title</i> (type or print) [Rule 62-620.305, F.A.C.]	Edward Fontanin, P.E., Utility Services Director Brevard County Utility Services Department
<i>Authorized Signatory Representative Signature</i>	<i>Date Signed</i>

This page intentionally left blank

SOUTH CENTRAL REGIONAL
WATER RECLAMATION FACILITY

NON-BENEFICIAL SURFACE WATER ELIMINATION PLAN



OCTOBER 2021

CPH, Inc.
500 West Fulton Street
Sanford, Florida 32771
CPH Project No. B19507

This page intentionally left blank

TABLE OF CONTENTS

1. Executive Summary	1-1
1.1 Introduction	1-1
1.2 Regulatory Framework for Non-Beneficial Surface Water Discharge Elimination ..	1-2
1.3 Existing Facility Conditions	1-2
1.4 Non-Beneficial Surface Water Discharge Elimination Plan	1-4
1.5 Potential Treatment Facility Improvements	1-4
 2. Regulatory Framework for Non-Beneficial Surface Water Discharge Elimination ..	 2-1
2.1 Introduction	2-1
2.2 Non-Beneficial Surface Water Discharge Elimination Law/Requirements	2-1
2.3 South Central Regional WRF - Current Disposal Practices	2-4
 3. Existing Facility Conditions	 3-1
3.1 Wastewater Management System Service Area	3-1
3.2 South Central Regional Water Reclamation Facility (SCRWRF)	3-1
3.2.1 Primary Treatment System	3-9
3.2.2 Secondary Treatment System - Carrousel BNR Treatment System	3-10
3.2.3 Secondary Treatment System - IFAS BNR Treatment System	3-12
3.2.4 Tertiary Treatment System - Carrousel BNR Treatment System	3-15
3.2.5 Tertiary Treatment System - IFAS BNR Treatment System	3-16
3.2.6 Disinfection System - Carrousel BNR Treatment System	3-16
3.2.7 Disinfection System - IFAS BNR Treatment System	3-16
3.2.8 Transfer Pump Stations	3-17
3.2.9 Reclaimed Water/Effluent Disposal System	3-18
3.2.10 Sludge Management System	3-20
3.3 Permitted Capacity	3-21
3.4 Historical Wastewater Flows	3-23
3.5 Facility Effluent Flows	3-31
3.6 Facility Effluent Quality	3-41
3.6.1 CBOD ₅ Treatment (Removal) Efficiency	3-41
3.6.2 TSS Treatment (Removal) Efficiency	3-44
3.6.3 TN Treatment (Removal) Efficiency	3-45
3.6.4 TP Treatment (Removal) Efficiency	3-47

TABLE OF CONTENTS

4. Non-Beneficial Surface Water Discharge Elimination Plan.	4-1
4.1 The South Central Regional WRF Discharge Elimination Plan	4-1
4.2 Capacity and Efficiency of the South Central Regional WRF	4-3
4.3 Ability of the South Central Regional WRF to Meet “Current” and “Future” Nutrient Limits	4-4

Appendices

A	South Beaches WWTF: “Existing” FDEP Operations Permit
----------	---

TABLE OF CONTENTS

List of Tables

Table 3.2-1	South Central Regional WRF Design and Current Wastewater Flows	3-8
Table 3.2-2	South Central Regional WRF - Influent and Effluent Design Criteria	3-8
Table 3.4-1	South Central Regional WRF - Historical Wastewater Flows	3-24
Table 3.5-1	South Central Regional WRF - Effluent Disposal	3-32
Table 3.6-1	South Central Regional WRF - Reclaimed Water Quality (2016 - 2020).	3-42

List of Figures

Figure 3.1-1	South Central Regional Wastewater Management System Service Area	3-2
Figure 3.2-1	South Central Regional WRF - Aerial View.	3-4
Figure 3.2-2	South Central Regional WRF: Schematic Flow Diagram	3-5
Figure 3.2-3	South Central Regional WRF: Facility Site Plan.	3-6
Figure 3.2-4	South Central Regional Reclaimed Water Service Area	3-7
Figure 3.3-1	South Central Regional Reclaimed Water Service Area - Major Users.	3-22
Figure 3.4-1	South Central Regional WRF: Historical Wastewater Flows (ADF)	3-27
Figure 3.4-2	South Central Regional WRF: Historical Wastewater Flows (3-Month ADF)	3-28
Figure 3.4-3	South Central Regional WRF: Historical Wastewater Flows (AADF)	3-29
Figure 3.4-4	South Central Regional WRF: Annual Variations in Flow	3-30
Figure 3.5-1	South Central Regional WRF: Public Access Reuse System (R-001) - Historical Effluent Monthly ADF.	3-35
Figure 3.5-2	South Central Regional WRF: Public Access Reuse System (R-001) - Historical Effluent 12-Month Rolling AADF	3-36
Figure 3.5-3	South Central Regional WRF: Reclaimed Water Flow to the Wetlands (R-002) - Historical Effluent Monthly ADF	3-37
Figure 3.5-4	South Central Regional WRF: Reclaimed Water Flow to the Wetlands (R-002) - Historical Effluent 12-Month Rolling AADF.	3-38
Figure 3.5-5	South Central Regional WRF: Surface Water Discharge (D-001) To The 4-Mile Canal - Historical Effluent Monthly ADF	3-39
Figure 3.5-6	South Central Regional WRF: Surface Water Discharge (D-001) To The 4-Mile Canal - Historical Effluent 12-Month Rolling AADF.	3-40

TABLE OF CONTENTS

List of Abbreviations

AADF	Annual Average Daily Flow
AC	Acres
ASP	Activated Sludge Process
AWET	Acute Whole Effluent Toxicity
ADF	Average Daily Flow
BCUD	Brevard County Utilities Department
BFP	Belt Filter Press
BMP	Best Management Practices
BNR	Biological Nutrient Removal
BOD	Biochemical Oxygen Demand
CAR	Capacity Analysis Report
CBOD ₅	Carbonaceous Biochemical Oxygen Demand - 5-Day
CCC	Chlorine Contact Chamber
CFR	Code of Federal Regulations
CIP	Capital Improvements Plan
COD	Chemical Oxygen Demand
DIW	Deep Injection Well
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
F/M	Food-to-Microorganism Ratio
FSS	Fixed Suspended Solids
GPCD	Gallons per Capita-Day
HDT	Hydraulic Detention Time
HP	Horsepower
hr	Hour
HRT	Hydraulic Retention Time
IR	Internal Recycle
lb	Pounds
lb/day	Pounds per day
MCRT	Mean Cell Residence Time
MDF	Maximum Daily Flow
mg	Milligram
mg/L	Milligrams per Liter
MG	Million Gallons
MGD	Million Gallons per Day

TABLE OF CONTENTS

List of Abbreviations

Min	Minutes
MLSS	Mixed Liquor Suspended Solids
MLVSS	Mixed Liquor Volatile Suspended Solids
MOP	Monitoring and Operating Protocol
NaOCl	Sodium Hypochlorite
NH ₃ -N	Ammonia-Nitrogen
O&M	Operations and Maintenance
ORP	Oxidation Reduction Potential
PAR	Public Access Reuse
PD	Positive Displacement
PHF	Peak Hourly Flow
PVC	Polyvinyl Chloride
RAS	Return Activated Sludge
RCP	Reinforced Concrete Pipe
RPM	Revolutions per Minute
SCADA	Supervisory Control and Data Acquisition
SCRWRF	South Central Regional Water Reclamation Facility
SLR	Solids Loading Rate
SNdN	Simultaneous Nitrification-Denitrification
SOR	Surface Overflow Rate
SRF	State Revolving Fund
SRT	Solids Retention Time
SU	Standard Unit
TDH	Total Dynamic Head
TKN	Total Kjeldahl Nitrogen (Organic-N + NH ₃ -N)
TMDL	Total Maximum Daily Load
TN	Total Nitrogen
TP	Total Phosphorus
TRC	Total Residual Chlorine
TS	Total Solids
TSS	Total Suspended Solids
VFD	Variable Frequency Drive
VS	Volatile Solids
VSS	Volatile Suspended Solids
WAS	Waste Activated Sludge
WLR	Weir Loading Rate
WOR	Weir Overflow Rate
WRF	Water Reclamation Facility

This page intentionally left blank

SECTION 1

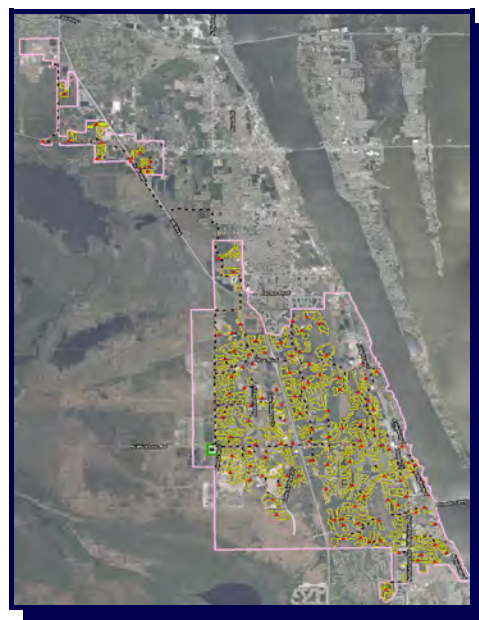
EXECUTIVE SUMMARY

1.1 INTRODUCTION

The promotion of water conservation and reuse of reclaimed water are State goals/objectives and are considered to be in the public interest. The State also finds that the reuse of reclaimed water is a critical component of meeting the State's existing and future water supply needs while sustaining natural systems. To enhance the quality of surface waters throughout the Florida, the State is looking to reduce/eliminate non-beneficial surface water discharges by wastewater treatment facility's through a new law and modifications to Section 403.064, "*Reuse of Reclaimed Water*", of the Florida Statutes. The new law requires utilities with wastewater treatment plants that discharge to surface waters to submit a Non-beneficial Surface Water Discharge Elimination Plan to the FDEP to review by November 1, 2021 with full implementation of any proposed improvements completed by January 1, 2032.

Brevard County owns and operates the South Central Regional WRF (SCRWRF) to process all of the wastewater generated within its permitted service area. The treatment facility serves the residential, commercial, agricultural and rural areas in this portion of Brevard County. The County has invested million of dollars into this facility and all of its ancillary components over the last twenty (20) years as well as reclaimed water distribution/transmission and effluent disposal infrastructure.

The current regulatory environment, including the State's attempt to eliminate non-beneficial surface water discharges, requires Brevard County to evaluate the SCRWRF's surface water discharge and its potential impacts to surrounding surface waters in accordance with the requirements of Section 403.064, "*Reuse of Reclaimed Water*", of the Florida Statutes.



South Central Regional WRF Wastewater Management System Service Area

This Non-Beneficial Surface Water Discharge Elimination Plan for the South Central Regional WRF includes the evaluation of the current FDEP-permitted surface water discharge from the South Central Regional WRF to the 4-Mile Canal and thence the St. Johns River, the amount of effluent discharged to the surface water system, the amount of reclaimed water utilized throughout the service area, the reclaimed water quality generated by the treatment facility and the capability of the facility to meet Advanced Wastewater Treatment (AWT) Standards on a consistent basis to ensure protection of the environment. This Surface Water Discharge Elimination Plan is comprised of the following Sections:

- Section 2: Regulatory Framework for Non-Beneficial Surface Water Discharge Elimination
- Section 3: Existing Facility Conditions
- Section 4: Non-Beneficial Surface Water Discharge Elimination Plan

1.2 REGULATORY FRAMEWORK FOR NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION

The State of Florida Legislature developed and passed House Bill 263 and Senate Bill 64, and the Governor signed the legislation into law on June 29, 2021, requiring domestic wastewater utilities to submit a Plan to the FDEP for eliminating non-beneficial surface water discharges (e.g., treated effluent, reclaimed water or reuse water).

The new law creates a timeline and Plan to eliminate non-beneficial surface water discharge by January 1, 2032, subject to the requirements of the law. It contains a series of conditions authorizing discharges that are being beneficially used or otherwise regulated, and for specified hardships. The law requires domestic wastewater utilities that dispose of effluent, reclaimed water, or reuse water by surface water discharge to submit a Plan to eliminate non-beneficial surface water discharge to the Florida Department of Environmental Protection (FDEP) by November 1, 2021 and fully implemented at the treatment facility by January 1, 2032.

1.3 EXISTING FACILITY CONDITIONS

The South Central Regional WRF is classified as a 12.0 MGD AADF *Advanced Wastewater Treatment plus Filtration* Facility (Category I, Class A), utilizing two (2) parallel BNR wastewater treatment plants to treat the incoming raw wastewater from the service area and is currently operating under FDEP Permit No. FL0102679. The unit operations and processes currently employed are as follows:

Treatment Elements	Description
Primary Treatment	Two (2) automatic, continuous, self-cleaning, mechanical barscreens (3 mm) each with a screenings compacting/dewatering screw system; two (2) centrifugal grit separators, each with washing units and dewatering screws; two (2) automatic, continuous, self-cleaning drum screens (1 mm) each with washing units and dewatering screws; and an odor control system.
Secondary Treatment	<p>Carrousel BNR Treatment System (Trains No. 1 and 2) Biological oxidation of the organic wastes utilizing an external anaerobic basin followed by a dual-train Carrousel Oxidation Ditch system consisting of primary anoxic, aerobic, secondary anoxic and reaeration basins. A flow splitter box directs the MLSS to four secondary clarifiers that are utilized for sedimentation of solids. A dedicated RAS/WAS pumping station is provided for each set of clarifiers (No. 1 and No. 2; No. 3 and No. 4).</p> <p>IFAS BNR Treatment System (Trains No. 3 and 4) Biological oxidation of the organic wastes utilizing dual-train IFAS BNR Treatment System (5-Stage). Each treatment train includes anaerobic, primary anoxic, aerobic, secondary anoxic and reaeration basins and has an Internal Mixed Liquor Recycle (IMLR) pumping system. The MLSS from the IFAS treatment trains are directed to two (2) 90-foot diameter secondary clarifiers for sedimentation of solids. A dedicated RAS/WAS pumping station is provided for the secondary clarifiers (No. 5 and No. 6).</p>
Tertiary Treatment	<p>Tertiary filtration via automatically operating, disc filtration units installed as follows:</p> <ul style="list-style-type: none"> ■ Carrousel BNR Trains 1 and 2 - four (4) disc filtration units rated at 1.5 MGD each. ■ IFAS BNR Trains 3 and 4 - three (3) disc filtration units rated at 2.0 MGD each.
Disinfection	<p>High-level disinfection is accomplished through the use of bulk liquid NaOCl (chemical feed and storage systems) and a system of chlorine contact chambers as follows:</p> <ul style="list-style-type: none"> ■ Carrousel BNR Trains 1 and 2 - Dual compartment Chlorine Contact Chamber. ■ IFAS BNR Trains 3 and 4 - Dual compartment Chlorine Contact Chamber.
Sludge Treatment	Sludge treatment consisting of two (2) sludge holding tanks with submersible hyperboloid mixers and aeration devices, PD blowers, a sludge pumping system, a dewatering system (belt filter presses) and a system of dewatered sludge conveyors.

A high-quality reclaimed water is produced at the facility and is used throughout the South Central Regional WRF Service area in accordance with the following disposal systems:

Disposal System	FDEP Designation	AADF Capacity (MGD)	Disposal System Description
Land Application (Reuse)	R-001	8.20	An existing slow-rate Public Access Reuse (PAR) system consisting of on-site irrigation at the SCRWRF and within the approved Reuse System Service Area.
	R-002	2.50	An existing slow-rate Restricted Public Access system consisting of the 200+ acre Ritch Grissom Memorial Wetlands (163+ total wetted acres) with four (4) wetland cells and an interior lake. The detention time through this created wetland system is approximately 53 days, and is located at latitude 28°13' 47" N, longitude 80°46' 18" W.
Surface Water Discharge	D-001	0.99	An existing discharge to 4-Mile Canal, Class III Fresh Waters, (WBID# 2893N) which is approximately 128 feet in length and discharges at a depth of approximately 0 feet. The outfall pipe is a 60" diameter concrete culvert that discharges to the 4-Mile Canal then to the St. Johns River. The point of discharge is located at latitude 28°13' 48" N, longitude 80°46' 14" W.

Surface water discharges from the Wetlands lake to the 4-Mile Canal and thence the St. Johns River (D-001) occur due to intense rainfall events associated with tropical systems (Hurricane Matthew, Hurricane Irma, etc.) and severe localized thunderstorms within the South Central Regional WRF Wastewater Management System Service Area.

The South Central Regional WRF is highly efficient in treating the raw wastewater from the service area and is in compliance with all FDEP Operations Permit requirements/limitations.

1.4 NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION PLAN

The detailed evaluation of monthly operating data indicates that the South Central Regional WRF has reused approximately 96.6% of the facility's annual average effluent flow over the past five-calendar year period (2016 - 2020). The remaining 3.4% of the effluent flow, over this same period, were surface water discharges from the Ritch Grissom Memorial Wetlands to the 4-Mile Canal. The surface water discharges were due to intense rainfall events associated with Hurricane Matthew, Hurricane Irma and severe localized thunderstorms within the SCRWRF service area.

Therefore, in accordance with the requirements of the 403.064(17)(a)(3)(d), Florida Statutes, the Surface Water Discharge Elimination Plan for the South Central Regional WRF does not provide for a complete elimination of the FDEP-permitted surface water discharge to the 4-Mile Canal and thence to the St. Johns River. However, Brevard County is providing the FDEP with an affirmation demonstration (as provided for in the law), based on the analyses and evaluations conducted in Section 3 of this document, that the SCRWRF is reusing a minimum of 90% of its annual average effluent flow as determined using the daily monitoring data from the previous five (5) Calendar Years (2016 - 2020) of operating data. In accordance with the regulatory requirements of 403.064, F.S., the County will therefore continue to utilize the FDEP-permitted discharge from the Ritch Grissom Memorial Wetlands to 4-Mile Canal and will not exceed the 0.990 MGD AADF flow limitation. It is anticipated that as growth occurs within the South Central Regional Wastewater Management System Service Area, new reclaimed water sites and additional storage will be developed thereby reducing the need to discharge to the 4-Mile Canal, with the exception of wet weather discharges during extreme weather and high groundwater table events.

1.5 POTENTIAL TREATMENT FACILITY IMPROVEMENTS

To meet the surface water discharge requirements, on a continual basis, when water is conveyed from the Wetlands lake to the 4-Mile Canal, it is imperative that the reclaimed water/effluent from the treatment facility meet AWT standards. The effluent TN concentration is the only effluent parameter that is not currently meeting AWT standards.

However, the two distinct BNR treatment systems produce differing effluent TN concentrations as shown in the table below:

BNR System	Time Period	Effluent Nutrient Concentrations (mg/L)	
		TN*	TP**
Carrousel	January 2016 - April 2019	7.8	0.8
IFAS	May 2019 - December 2020	3.7	0.2

* AWT Total Nitrogen Standard: ≤ 3 mg/L

** AWT Total Phosphorus Standard: ≤ 1 mg/L

Therefore, to meet the AWT TN Standard, on a consistent basis, and ensure that the treatment facility meets the required FDEP Operational limits for nutrients, improvements, modifications and adjustments within the BNR Systems will be required at the South Central Regional WRF:

BNR System	Required Improvements to Meet the AWT TN Standard*
IFAS	Minor operational modifications and adjustments
Carrousel	Moderate to significant operational, process and infrastructure improvements, modifications and adjustments

* A listing of proposed treatment facility improvements will be generated upon completion of a detailed evaluation of each BNR system, process design information, design criteria, facility operational data and standard operating procedures.

The required facility improvements to the BNR Treatment Systems at the South Central Regional WRF, to consistently meet the AWT TN Standard, will be included in the County's Utility Capital Improvements Program (CIP). As this is not a currently funded CIP project, the County will evaluate their utility capital resources during upcoming annual budget cycle meetings and include this project in its list of potential prioritized utility projects.

This page intentionally left blank

SECTION 2

REGULATORY FRAMEWORK FOR NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION

2.1 INTRODUCTION

This Section of the Non-Beneficial Surface Water Discharge Elimination Plan (NBSWDEP) presents the regulatory framework for the potential surface water elimination/reduction options for Brevard County's South Central Regional WRF. The regulations regarding the surface water discharge elimination program have been promulgated by the State of Florida under 403.064, "*Reuse of Reclaimed Water*" (June 2021). The new law requires Brevard County to submit to the Florida Department of Environmental Protection (FDEP), by November 1, 2021, a Plan for eliminating non-beneficial treatment facility effluent discharges to surface waters.

The Florida Department of Environmental Protection (FDEP) regulates surface waters and watersheds within the State and the approach for restoring and protecting State waters and addressing TMDL Program requirements (1972 Federal Clean Water Act and the 1999 Florida Watershed Restoration Act (FWRA)).

2.2 NON-BENEFICIAL SURFACE WATER ELIMINATION LAW/REQUIREMENTS

The State of Florida Legislature, during the past session, developed and passed House Bill 263 and Senate Bill 64 requiring domestic wastewater utilities to submit a Plan to the FDEP for eliminating non-beneficial surface water discharges (e.g., treated effluent, reclaimed water or reuse water). Governor DeSantis signed the legislation into law on June 29, 2021. The law added new regulatory requirements to 403.064, "*Reuse of Reclaimed Water*" of the Florida Statutes which will be discussed herein.

The new law creates a timeline and Plan to eliminate non-beneficial surface water discharge by January 1, 2032, subject to the requirements of the law. It contains a series

of conditions authorizing discharges that are being beneficially used or otherwise regulated, and for specified hardships. The law requires domestic wastewater utilities that dispose of effluent, reclaimed water, or reuse water by surface water discharge to submit a Plan to eliminate non-beneficial surface water discharge to the Florida Department of Environmental Protection (FDEP). The Plan must be submitted to FDEP by November 1, 2021 and implemented by January 1, 2032.

The Non-Beneficial Surface Water Discharge Elimination Plan must include the following:

- The average flow (MGD) of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters and the date of such elimination;
- The average flow (MGD) of surface water discharge that will continue in accordance with the requirements for the elimination of ocean outfalls, one of the discharge conditions specified in the legislation or one of the hardship conditions; and
- The level of treatment which the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative.

To be approved by the FDEP, the Non-Beneficial Surface Water Discharge Elimination Plan must:

- Result in eliminating the surface water discharge;
- Result in meeting the statutory requirements (Section 403.086(10)) regarding the discharge of domestic wastewater through an ocean outfall; or
- Provide an affirmative demonstration that any of the following discharge conditions applies to the remaining discharge if the Plan does not provide for the complete elimination of surface water discharge:

Discharge Conditions

The discharge is associated with an indirect potable reuse project.

The discharge is a wet weather discharge that occurs in accordance with an applicable FDEP permit.

The discharge is into a stormwater management system and is subsequently withdrawn by a user for irrigation purposes.

The utility operates domestic wastewater treatment facilities with reuse systems that reuse a minimum of ninety percent (90%) of a facility's annual average flow, as determined by the FDEP using monitoring data for the prior five (5) consecutive years, for reuse purposes authorized by the FDEP.

The discharge provides direct ecological or public water supply benefits, such as rehydrating wetlands or implementing the requirements of minimum flows and minimum water levels or recovery or prevention strategies for a waterbody.

The new law requires the FDEP to approve or deny a Non-Beneficial Surface Water Discharge Elimination Plan within nine (9) months after receiving the Plan. Brevard County may modify its Plan(s) by submitting the proposed modification(s) to the FDEP for review. However, the Plan(s) may not be modified such that the requirements of the new law are not met and the FDEP may not extend the time within which a Plan will be implemented. The approval of the Plan or a modification by the FDEP does not constitute final agency action.

If the Non-Beneficial Surface Water Discharge Elimination Plan is not submitted in a timely manner by the County, or approved by the FDEP, the South Central Regional WRF may not dispose of effluent, reclaimed water, or reuse water by surface discharge after January 1, 2028. In addition, a violation subjects Brevard County to administrative and civil penalties pursuant to ss. 403.121, 403.131, and 403.141.

A domestic wastewater utility applying for a permit for a new or expanded surface water discharge is now required to prepare a Plan in accordance with 403.064, F.S. as part of that permit application. The FDEP may not approve a permit for a new or expanded surface water discharge unless the Plan meets one or more of the conditions provided in the new law.

By December 31, 2021, and annually thereafter, the FDEP is required to submit a report to the President of the Florida Senate and the Speaker of the Florida House of Representatives which provides the average gallons per day of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters by the utility and the dates of such elimination; the average gallons per day of surface water discharges that will continue in accordance with the alternatives provided in the law, and the level of treatment that the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative and utility; and any modified or new plans submitted by a utility since the last report.

This new law does not apply to any of the following:

A domestic wastewater treatment facility that is located in a fiscally constrained Florida County as described in s. 218.67(1).

A domestic wastewater treatment facility that is located in a municipality that is entirely within a rural area of opportunity as designated pursuant to s. 288.0656.

A domestic wastewater treatment facility that is located in a municipality that has less than \$10 million in total revenue, as determined by the municipality's most recent annual financial report submitted to the Department of Financial Services in accordance with s. 218.32.

A domestic wastewater treatment facility that is operated by an operator of a mobile home park as defined in s. 723.003 and has a permitted capacity of less than 300,000 gallons per day.

Therefore, as the South Central Regional WRF has a permitted "intermittent" surface water discharge from the Wetlands lake to the 4-Mile Canal and thence the St. Johns River, and does not meet one of the Plan exemptions, as identified above, a Non-Beneficial Surface Water Discharge Elimination Plan must be submitted to FDEP by the November 1, 2021 deadline.

2.3 SOUTH CENTRAL REGIONAL WRF - CURRENT DISPOSAL PRACTICES

Brevard County owns and operates the South Central Regional Water Reclamation Facility (SCRWRF) which is classified as an "Advanced Wastewater Treatment plus Filtration Facility" (Category I, Class A) utilizing the following two (2) parallel BNR wastewater treatment systems (Carrousel and IFAS Biological Nutrient Removal (BNR) Systems) and meets all Class I Reliability Criteria. The treatment facility consists of dual mechanical influent screening systems, grit removal, four (4) BNR treatment trains (anaerobic, primary anoxic, aerobic, deoxygenation, secondary anoxic and reaeration basins) with chemical feed facilities, secondary clarification, tertiary filtration, high-level disinfection, pumping systems and reclaimed water storage.



A "high-quality" reclaimed water is produced at the facility that is low in TN and TP. The "current" permitted treatment capacity of the facility is 12.00 MGD AADF and the SCRWRF is operating under FDEP Operations Permit No. FL0102679 (a copy is provided in Appendix A). Biosolids are partially digested, dewatered, and then transported to a Class I landfill for final disposal.

Reuse/effluent disposal is achieved by a combination of the following FDEP permitted disposal systems:

Disposal System	FDEP Designation	AADF Capacity (MGD)	Disposal System Description
Land Application (Reuse)	R-001	8.20	An existing slow-rate Public Access Reuse (PAR) system consisting of on-site irrigation at the SCRWRF and within the approved Reuse System Service Area.
	R-002	2.50	An existing slow-rate Restricted Public Access system consisting of the 200+ acre Ritch Grissom Memorial Wetlands (163+ total wetted acres) with four (4) wetland cells and an interior lake. The detention time through this created wetland system is approximately 53 days, and is located at latitude 28°13' 47" N, longitude 80°46' 18" W.
Surface Water Discharge	D-001	0.99	An existing discharge to 4-Mile Canal, Class III Fresh Waters, (WBID# 2893N) which is approximately 128 feet in length and discharges at a depth of approximately 0 feet. The outfall pipe is a 60" diameter concrete culvert that discharges to the 4-Mile Canal then to the St. Johns River. The point of discharge is located at latitude 28°13' 48" N, longitude 80°46' 14" W.

Surface water discharges from the Wetlands lake to the 4-Mile Canal and thence the St. Johns River (D-001) occur due to intense rainfall events associated with tropical systems (Hurricane Matthew, Hurricane Irma, etc.) and severe localized thunderstorms within the South Central Regional WRF Wastewater Management System Service Area.

This page intentionally left blank

SECTION 3

EXISTING FACILITY CONDITIONS

3.1 WASTEWATER MANAGEMENT SYSTEM SERVICE AREA

The South Central Regional Wastewater Management System Service Area includes land within unincorporated portions of Brevard County as presented in Figure 3.1-1. The southern portion of the service area is generally bordered by Green Road on the north, Post Road on the south, I-95 on the east, and Pineda Boulevard on the west. The northern portion of the service area is generally bordered by Coconut Avenue on the north, Pluckebaum Road on the south, I-95 on the east, and Adamson Road on the west.

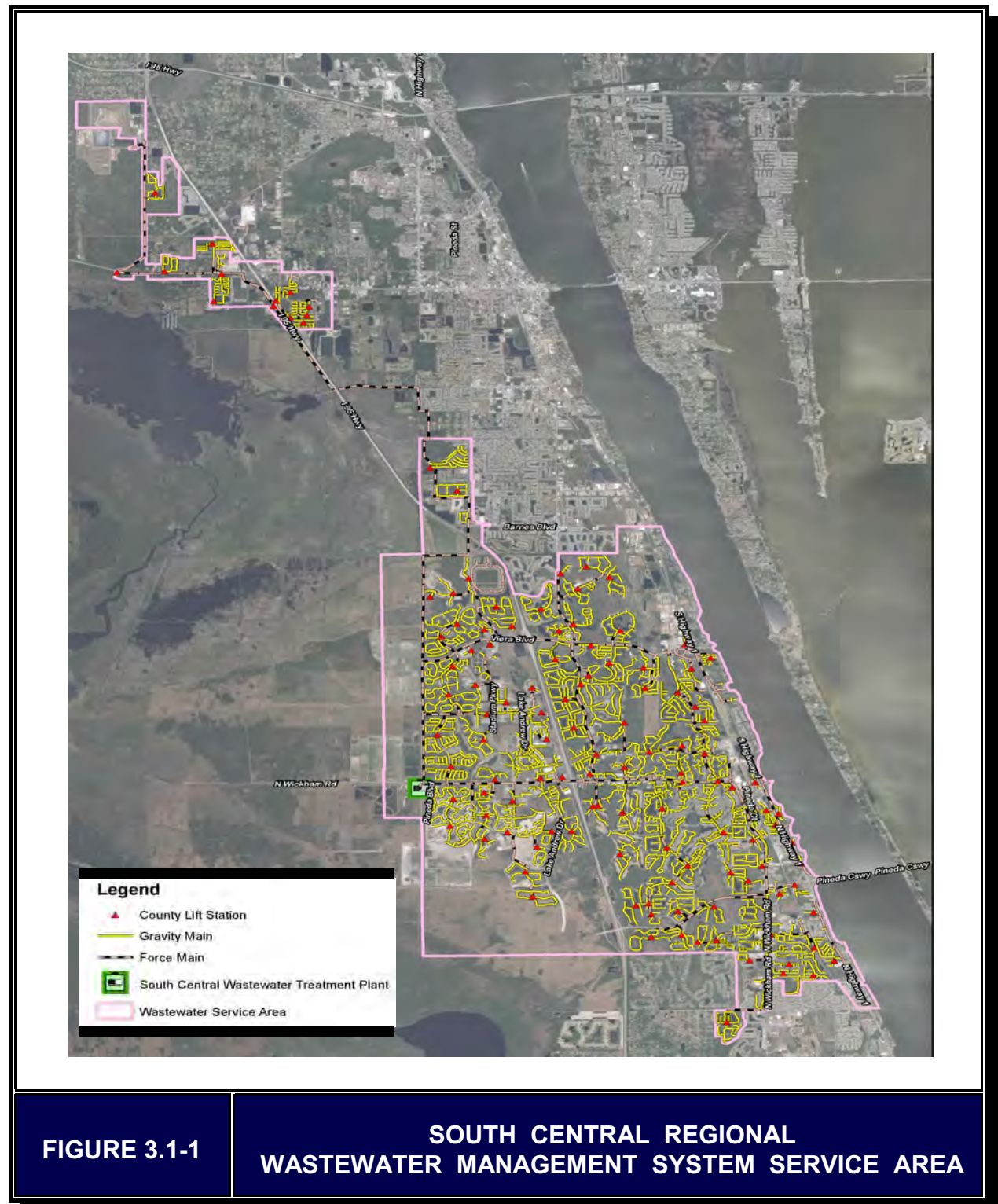
The South Central Regional Wastewater Management System serves the County's residential, commercial, agricultural, and rural areas. Population and corresponding raw wastewater flow projections are based on this service area. The raw wastewater is collected and conveyed via gravity sewers, lift stations and forcemains to the South Central Regional Water Reclamation Facility (SCRWRF) located at 10001 North Wickham Road, Melbourne, FL 32940, for advanced treatment and water reclamation.

Development is suburban in nature, dominated by single-family residential subdivisions and commercial development typically associated with residential development. Natural barriers and land development barriers regulated by the federal government confine the South Central Regional Wastewater Management System Service Area.

3.2 SOUTH CENTRAL REGIONAL WATER RECLAMATION FACILITY (SCRWRF)

The South Central Regional WRF is classified as an *Advanced Wastewater Treatment plus Filtration* Facility (Category I, Class A), utilizing two (2) parallel BNR wastewater treatment plants to treat the incoming raw wastewater from the service area and meets all Class I Reliability criteria. The two (2) parallel BNR treatment trains are briefly described below:

- A 6.0 MGD AADF treatment system consisting of an independent anaerobic reactor and a dual-train, 4-Stage Carrousel BNR Treatment System with primary anoxic, aerobic, secondary anoxic and reaeration basins. The Carrousel BNR Treatment System utilizes mechanical surface aerators and hyperboloid mixers to provide oxygenation and mixing of the Mixed Liquor Suspended Solids (MLSS).



- A 6.0 MGD AADF dual-train IFAS BNR Treatment System designed and operated as a 5-Stage process consisting of anaerobic, primary anoxic, aerobic, secondary anoxic and reaeration basins. The IFAS system utilizes turboblowers, medium bubble diffusers and hyperboloid mixers to provide oxygenation and mixing of the Mixed Liquor Suspended Solids (MLSS).

The Carrousel BNR treatment trains are currently *on-line* and processing the incoming raw wastewater from the Service Area and are generating an effluent meeting all FDEP requirements. The IFAS BNR Treatment System trains are currently *off-line* as the raw wastewater flows being received at the facility are below the 6.00 MGD capacity of Carrousel BNR System. The South Central Regional Wastewater Management System, Reclaimed Water System Service Area and the South Central Regional WRF are operating under FDEP Operations Permit No. FL0102679. A copy of the current FDEP Operations Permit is provided in Appendix A. An aerial view, schematic flow diagram and site plan of the South Central Regional WRF are presented in Figures 3.2-1 through 3.2-3, respectively.

The reclaimed water produced at the South Central Regional WRF is used throughout the service area for slow-rate irrigation and land application of *public* and *restricted public* access sites. An aerial view of the South Central Regional Reclaimed Water Service Area is presented in Figure 3.2-4. Effluent flow in excess of the reclaimed water demand can be discharged to the Ritch Grissom Memorial Wetlands (200[±] acres; four cells and an interior lake) or the Reuse/Reject Water Storage Ponds (100 MG capacity).

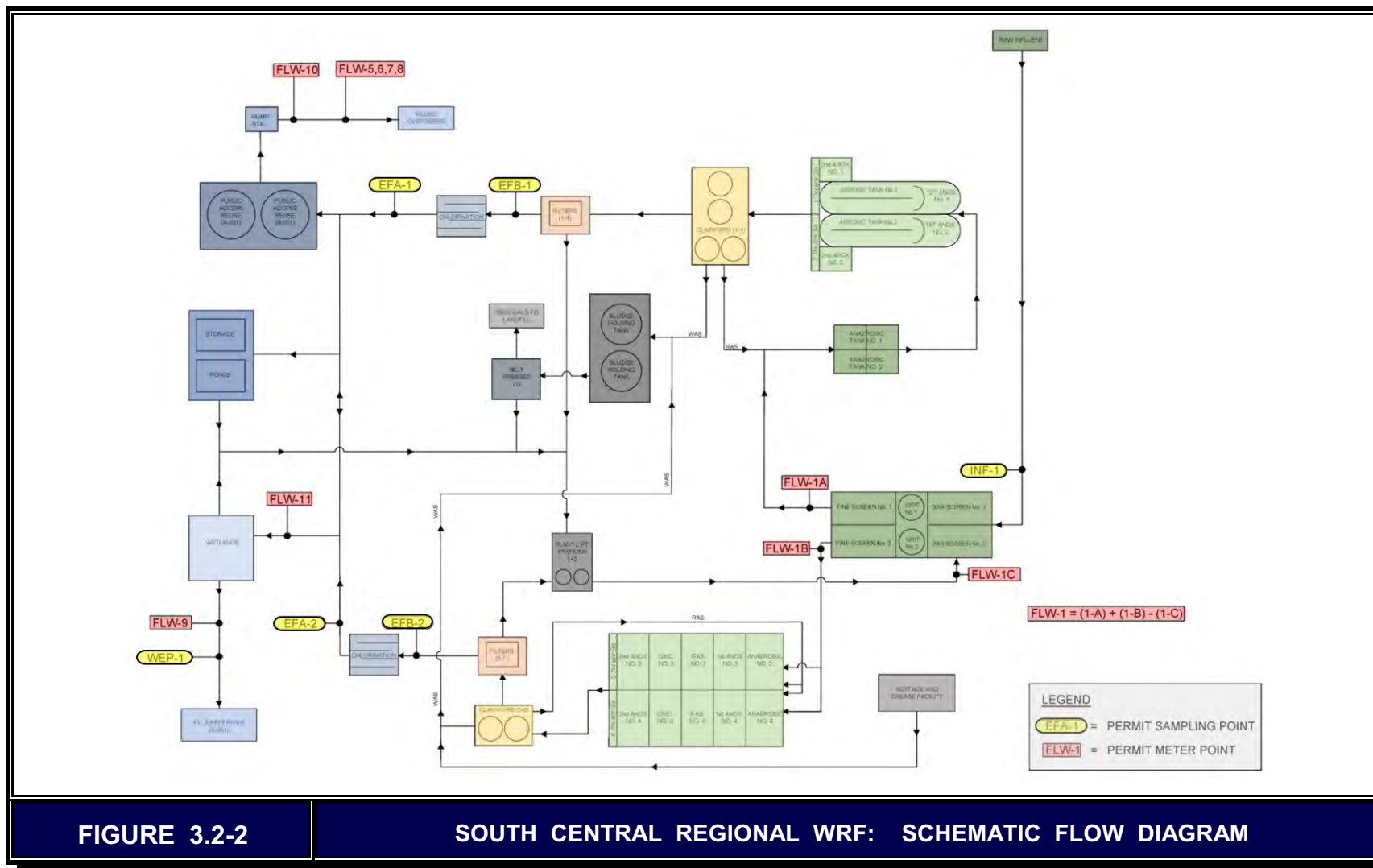
The unit operations and processes currently employed at the South Central Regional WRF (2020) are divided into the following elements/categories:

Treatment Elements	Description
Primary Treatment	Two (2) automatic, continuous, self-cleaning, mechanical barscreens (3 mm) each with a screenings compacting/dewatering screw system; two (2) centrifugal grit separators, each with washing units and dewatering screws; two (2) automatic, continuous, self-cleaning mechanical drum screens (1 mm) each with washing units and dewatering screws; and an odor control system.
Secondary Treatment	<p>Carrousel BNR Treatment System (Trains No. 1 and 2) Biological oxidation of the organic wastes utilizing an external anaerobic basin followed by a dual-train Carrousel Oxidation Ditch system consisting of primary anoxic, aerobic, secondary anoxic and reaeration basins. A flow splitter box directs the MLSS to four secondary clarifiers that are utilized for sedimentation of solids. A dedicated RAS/WAS pumping station is provided for each set of clarifiers (No. 1 and No. 2; No. 3 and No. 4).</p> <p>IFAS BNR Treatment System (Trains No. 3 and 4) Biological oxidation of the organic wastes utilizing dual-train IFAS BNR Treatment System (5-Stage). Each treatment train includes anaerobic, primary anoxic, aerobic, secondary anoxic and reaeration basins and has an Internal Mixed Liquor Recycle (IMLR) pumping system. The MLSS from the IFAS treatment trains are directed to two (2) 90-foot diameter secondary clarifiers for sedimentation of solids. A dedicated RAS/WAS pumping station is provided for the secondary clarifiers (No. 5 and No. 6).</p>
Tertiary Treatment	<p>Tertiary filtration via automatically operating, disc filtration units installed as follows:</p> <ul style="list-style-type: none"> ■ Carrousel BNR Trains 1 and 2 - four (4) disc filtration units rated at 1.5 MGD each. ■ IFAS BNR Trains 3 and 4 - three (3) disc filtration units rated at 2.0 MGD each.



FIGURE 3.2-1

SOUTH CENTRAL REGIONAL WRF - AERIAL VIEW







Treatment Elements	Description
Disinfection	High-level disinfection is accomplished through the use of bulk liquid NaOCl (chemical feed and storage systems) and a system of chlorine contact chambers as follows: <ul style="list-style-type: none"> ■ Carousel BNR Trains 1 and 2 - Dual compartment Chlorine Contact Chamber. ■ IFAS BNR Trains 3 and 4 - Dual compartment Chlorine Contact Chamber.
Sludge Treatment	Sludge treatment consisting of two (2) sludge holding tanks with submersible hyperboloid mixers and aeration devices, PD blowers, a sludge pumping system, a dewatering system (belt filter presses) and a system of dewatered sludge conveyors. Dewatered sludge is transported to the local Class I solids waste landfill for final disposal.

Design and current wastewater flows at the South Central Regional WRF are as follows:

Table 3.2-1: South Central Regional WRF Design and Current Wastewater Flows		
Flow Condition	Wastewater Flow Rate (MGD)	
	Design*	Actual Operation**
Annual Average Daily Flow (AADF)	12.00	4.872
Maximum Daily Flow (MDF)	18.00	7.140
Peak Hourly Flow (PHF)	24.00	

* Designed for 50% of flow through each treatment system (Carousel and IFAS) ** Actual flow conditions from Calendar Year 2020.

Influent and effluent design criteria for the South Central Regional WRF are presented below.

Table 3.2-2: South Central Regional WRF - Influent and Effluent Design Criteria			
Parameter	Units	Influent	Tertiary Effluent
CBOD ₅	mg/L	300*	< 5
TSS	mg/L	300*	< 5**
TKN	mg/L	50	
NH ₃ -N	mg/L	38	< 1
TN	mg/L		< 3***
TP	mg/L	8	≤ 1****
pH	S.U.	6.0 - 8.5	6.0 - 8.5

* Data from Rerating Study and IFAS design

*** Supplemental carbon may be required.

** After Tertiary Filtration

**** A coagulant may be required

3.2.1 Primary Treatment System

Raw wastewater flows from the South Central Regional Wastewater Management System Service Area enter the Pretreatment Structure, located on the east side of the facility, through a 36-inch DIP. The Pretreatment Structure consists of a dual-level, cast-in-place concrete structure consisting of the following unit operations:

- Fine screening (3 mm) - Step Screens
- Grit Removal System - Head® Cell Units
- Fine screening (1 mm) - Drum Screens



Pretreatment Structure

Raw wastewater flows entering the Pretreatment Structure are conveyed into dual channels (3.5 foot width, each). Each channel contains an automatic, continuous, self-cleaning mechanical barscreen (3 mm openings) and can be isolated using sluice gates. The screenings are collected and discharged into washing/dewatering presses (one per barscreen) to reduce the organic content, moisture content and volume of screenings material. Screenings are then conveyed to a discharge chute and deposited into municipal dumpsters at grade (landfill disposal).



Mechanical Barscreens (3 mm)

The two raw wastewater influent channels converge, following the mechanical barscreens, and the screened wastewater is conveyed to the Grit Removal System. Two (2) centrifugal grit separator units (Eutek HeadCell®), located in the central section of the Pretreatment Structure, are used to remove grit (heavy inorganic mineral matter) from the screened wastewater stream prior to final fine screening (drum screens).



Grit Separator Unit (HeadCell)

Accessory equipment associated with each grit collector unit includes the following:

- GritCup® grit washing/classification units
- SpiraSnail® grit dewatering units

The Eutek HeadCell® units remove the grit particles and concentrate them in a sump at the bottom of the units. The GritCup® units receive the collected grit and discharge a concentrated grit slurry into the SpiraSnail® units below (at grade). These units are then used to wash, dewater and discharge the grit into municipal dumpsters (landfill disposal).



Grit Washing/Dewatering Unit

Degritted raw wastewater is conveyed to the second-stage screening system where additional inorganic material is removed by the fine mesh within the units. The two (2) units are internally-fed rotating drum screens that perform two functions:

- Screening of the liquid/solid slurry
- Conveying of the captured solids



Mech. Drum Screens (1 mm)

Washing press systems, one per drum screen, are used to convey, wash and dewater various solid materials/screenings. The dewatered screenings are then discharged into chutes and fall into municipal dumpsters (landfill disposal).

Solid covers are installed over all channels within the Pretreatment Structure and odor control collection piping is installed throughout. Malodorous compounds generated within the Pretreatment Structure are conveyed, via an induced draft, to an odor control system for processing. Downstream of the Pretreatment Structure odors are not a concern as RAS is mixed with the screened and degritted wastewater in the anaerobic basins of all process trains.



**Pretreatment Structure
Odor Control System**

Screened and degritted wastewater is then conveyed to an integral flow splitter box, at the west end of the Pretreatment Structure, that directs the flow to the BNR Treatment Systems (IFAS and/or Carrousel BNR Treatment Systems). The flow to each BNR Treatment System is metered separately.

3.2.2 Secondary Treatment System - Carrousel BNR Treatment System

Secondary treatment of raw, degritted wastewater, up to 6.0 MGD AADF, can be processed through the Carrousel BNR Treatment System. The Carrousel BNR Treatment System consists of the following treatment elements:

- An external anaerobic basin
- A dual-train, 4-Stage oxidation ditch BNR treatment system, each with the following: a primary anoxic basin, aerobic basin, secondary anoxic basin and reaeration basin.

The Carrousel BNR Treatment system (oxidation ditches) is designed to utilize the metabolic reactions of microorganisms to produce an acceptable effluent water quality by removing oxygen demanding constituents (CBOD₅) and nutrients (nitrogen and phosphorus).



Carrousel BNR Treatment System

Screened and degritted wastewater is mixed with RAS and enters the external two-train anaerobic basin. Under anaerobic conditions, the heterotrophs break the high-energy bonds in internally accumulated polyphosphate, resulting in the release of phosphate (PO_4^{-3}) and the consumption of organic matter in the form of Volatile Fatty Acids (VFAs) or other easily biodegraded organic compounds. When the heterotrophs are then put under aerobic conditions, they take up phosphate, forming internal polyphosphate molecules. This *luxury uptake* results in more phosphate being incorporated in the microbial cells than was released in the anaerobic zone, thereby reducing the total phosphate concentration in solution.



**Carrousel BNR Treatment System:
Anaerobic Basins**

The mixed liquor suspended solids (MLSS) flow by gravity from the anaerobic basins to the primary anoxic basin in each Carrousel BNR Treatment Train. Internal Recycle (IR) from the end of the aerobic zone is also conveyed, by gravity through the use of an Eliminat/IR[®] gate, to the primary anoxic basin in each Carrousel BNR treatment system. The primary anoxic basin functions as the main denitrification zone. The RAS and IR streams bring nitrate (NO_3^-) from the aerobic basin into contact with the influent organic matter (BOD₅). Heterotrophic bacteria convert the nitrate to nitrogen gas and consume a portion of the influent BOD₅ in the process.

The MLSS from the primary anoxic basin flows by gravity to a distribution channel and enter the aerobic basin of the Carrousel BNR Treatment System. The aerobic basins contain heterotrophic bacteria (suspended growth) and provide the detention

time and oxygen transfer required for oxidation of the influent organic compounds, nitrification, and phosphorus uptake. Oxygen and mixing are provided by a pair of Excell surface aerators provided in each treatment train (at opposite ends of the aerobic zone).

MLSS is discharged from the aerobic basin, by gravity, into the secondary anoxic basin which provides removal of nitrogen species via the denitrification process. A pair of submersible hyperboloid mixers is utilized in each basin to keep the contents mixed without adding any additional dissolved oxygen.

Following the secondary anoxic basin, the MLSS is aerated in the reaeration basin (one per treatment basin, 2 total). This is the final step in the Carrousel BNR Treatment System where nitrogen micro-bubbles attached to the floc (from the secondary anoxic basin) are stripped from the mixed liquor, any residual soluble BOD remaining from the supplemental carbon addition is oxidized (if added), and the mixed liquor is oxygenated.

Secondary clarification of the biologically treated wastewater is provided to remove MLSS, flocculated suspended solids and chemical precipitates and to meet the effluent criteria mandated by FDEP, EPA and Class I Reliability. Secondary clarification is provided by four (4) identical 70-foot diameter, 12.5-foot sidewater depth, cast-in-place concrete clarifiers with full-surface skimmers. The settled MLSS are removed in the secondary clarifier underflow and either returned to the Carrousel BNR Treatment System as RAS or wasted to the Sludge Holding Tank(s) as WAS.



Carrousel BNR Treatment System: Sec. Clarifiers

3.2.3 Secondary Treatment System - IFAS BNR Treatment System

Secondary treatment of raw, degritted wastewater, up to 6.0 MGD AADF, can be processed through the IFAS BNR Treatment System. The dual-train IFAS BNR Treatment System consists of the following treatment elements:

- Anaerobic basin
- Primary anoxic basin
- Aerobic basin
- Secondary anoxic basin
- Reaeration basin

**IFAS BNR Treatment System**

The IFAS BNR treatment system is designed to utilize the metabolic reactions of microorganisms to produce an acceptable effluent water quality by removing oxygen demanding constituents (CBOD₅) and nutrients (nitrogen and phosphorus).

Screened and degritted wastewater is mixed with RAS and enters the anaerobic basins of the dual-train IFAS BNR Treatment System. Under anaerobic conditions, the heterotrophs break the high-energy bonds in internally accumulated polyphosphate, resulting in the release of phosphate (PO_4^{-3}) and the consumption of organic matter in the form of Volatile Fatty Acids (VFAs) or other easily biodegraded organic compounds. When the heterotrophs are then put under aerobic conditions, they take up phosphate, forming internal polyphosphate molecules. This *luxury uptake* results in more phosphate being incorporated in the microbial cells than was released in the anaerobic zone, thereby reducing the total phosphate concentration in solution.

**IFAS BNR System: Anaerobic Basins**

The MLSS exit the anaerobic basin through slots in the wall and enter the primary anoxic basin. Internal Mixed Liquor Recycle (IMLR) from the aerobic activated sludge basin (no elements/media) is also conveyed, by IMLR wall pumps, through a pipe on the basin floor to the primary anoxic basin. The primary anoxic basin functions as the main denitrification zone. The RAS and IMLR streams bring nitrate (NO_3^-) from the aerobic activated sludge basin into contact with the influent organic matter (BOD₅). Heterotrophic bacteria convert the nitrate to nitrogen gas and consume a portion of the influent BOD₅ in the process.

**IFAS BNR System: Primary Anoxic Basins**

The Mixed Liquor Suspended Solids (MLSS) from the primary anoxic basin flow over a full length wall weir and enter the aerobic IFAS basin within the IFAS Treatment System. The IFAS aerobic basins contain carrier elements/media (AnoxKaldnes Type K5) upon which bacterial growth occurs. The aerobic IFAS basins contain heterotrophic bacteria (suspended growth) and autotrophic bacteria (attached growth on carrier elements/media) and provide the detention time and oxygen transfer required for oxidation of the influent organic compounds, nitrification, and phosphorus uptake.

**Aerobic IFAS Basin**

In the IFAS BNR Process, the autotrophic bacteria convert the influent ammonia (NH_3) to nitrate (NO_3^-), and heterotrophic bacteria oxidize the organic matter (BOD_5). The MLSS from the aerobic IFAS basin flow through wall mounted media retention screens (30 total) into the aerobic activated sludge basin within each IFAS BNR treatment train. The screens ensure that the carrier elements/media are retained within the aerobic IFAS basin. This basin is a second aerobic basin, containing no IFAS System carrier elements/media, and provides additional time for the aerobic decomposition of organic matter (BOD_5) by heterotrophic bacteria. Aeration of the aerobic IFAS and activated sludge basins are provided by three turboblowers housed in the Blower Building located immediately adjacent (north) of the IFAS BNR Treatment System. Dual IMLR submersible wall pumps are installed at the end of each aerobic activated sludge basin to recycle MLSS to the primary anoxic basin to enhance denitrification.

**IFAS System - Aerobic AS Basin**

The aerobic activated sludge basin flow is conveyed, by gravity through slots in the wall, into the secondary anoxic basin of each IFAS BNR Treatment Train. The secondary anoxic basins provide removal of nitrogen species via the denitrification process. A submersible hyperboloid mixer is utilized in each secondary anoxic basin to keep the contents mixed without adding any additional dissolved oxygen.

**IFAS Secondary Anoxic Basin**

Following the secondary anoxic basin, the MLSS are aerated in the reaeration basin (one per IFAS treatment basin, 2 total). This is the final step in the IFAS BNR Treatment System where nitrogen micro-bubbles attached to the floc (from the

secondary anoxic basin) are stripped from the mixed liquor, any residual soluble BOD remaining from the supplemental carbon addition is oxidized (if added), and the mixed liquor is oxygenated. Alum can be added in the treatment process to assist in the chemical precipitation/removal of phosphorus from the final effluent, as necessary, to meet the regulatory effluent requirements.



Reaeration Basin

Secondary clarification of the biologically treated wastewater is provided to remove MLSS, flocculated suspended solids and chemical precipitates and to meet the effluent criteria mandated by FDEP, EPA and Class I Reliability. Secondary clarification is provided by two (2) identical 90-foot diameter, 12.5-foot sidewater depth, cast-in-place concrete clarifiers with full-surface skimmers. The settled MLSS are removed in the secondary clarifier underflow and either returned to the IFAS BNR Treatment System as RAS or wasted to the Sludge Holding Tank(s) as WAS.



Secondary Clarifiers - IFAS BNR Treatment System

3.2.4 Tertiary Treatment System - Carrousel BNR Treatment System

Tertiary filtration of the treated effluent from the Carrousel BNR Treatment System is required to ensure protection of public health and enhance the disinfection process. A chemical dosage (alum) may be introduced, as necessary, in the Reaeration Basins of the BNR Treatment System to enhance phosphorus removal, via chemical precipitation, and TSS/Turbidity removal should the effluent be approaching the FDEP mandated maximum concentration/limit. Tertiary filtration is accomplished through the use of four (4) disc filtration units, using cloth media and a dynamic/linear backwash system, installed in a concrete basin. Self priming centrifugal backwash pumps are used to clean the cloth media and remove the captured solids.



Tertiary (Disc) Filters

3.2.5 Tertiary Treatment System - IFAS BNR Treatment System

Tertiary filtration of the treated effluent from the IFAS BNR Treatment System is required to ensure protection of public health and enhance the disinfection process. A chemical dosage (alum) may be introduced, as necessary, in the Reaeration Basins of the BNR Treatment System to enhance phosphorus removal, via chemical precipitation, and TSS/Turbidity removal should the effluent be approaching the FDEP mandated maximum concentration/limit. Tertiary filtration is accomplished through the use of three (3) disc filtration units, using cloth media and a dynamic/linear backwash system, installed in a concrete basin. Self priming centrifugal backwash pumps are used to clean the cloth media and remove the captured solids.



Tertiary (Disc) Filters - IFAS System

3.2.6 Disinfection Sytem - Carrousel BNR Treatment System

From the Carrousel BNR Treatment System tertiary filters, the treated effluent flows, by gravity, to a cast-in-place concrete Chlorine Contact Chamber (CCC). The CCC provides high level disinfection of the effluent through the application of liquid sodium hypochlorite (NaOCl) via a flow-paced system. The Chlorine Contact Chamber is divided into two distinct compartments and is designed to meet Class I Reliability Criteria. The CCC System is designed to provide a minimum of fifteen (15) minutes of contact time at PHF and thirty (30) minutes at AADF. Sodium hypochlorite is metered and mixed into the tertiary effluent and the CCC provides the contact time for the inactivation of fecal coliforms, pathogens and other microbial organisms.



Carrousel BNR System - CCC

3.2.7 Disinfection System - IFAS BNR Treatment System

From the IFAS BNR Treatment System tertiary filters, the treated effluent flows, by gravity, to a cast-in-place concrete Chlorine Contact Chamber (CCC). The CCC provides high level disinfection of the effluent through the application of liquid sodium hypochlorite (NaOCl) via a flow-paced system. The Chlorine Contact Chamber is divided into two (2) distinct compartments, each sized for fifty percent

(50%) of the total flow in accordance with Class I Reliability Criteria. The CCC System is designed to provide a minimum of fifteen (15) minutes of contact time at PHF and thirty (30) minutes at AADF. Sodium hypochlorite is metered and mixed into the tertiary effluent and the CCC provides the contact time for the inactivation of fecal coliforms, pathogens and other microbial organisms.



IFAS BNR System - CCC

3.2.8 Transfer Pump Stations

After high level disinfection, the effluent flows over a weir at the end of each BNR Treatment System's CCC, and into their integral Transfer Pump Station. Each Transfer Pump Station consists of a cast-in-place concrete wetwell and three pumps.



Carrousel System - Transfer Pump Station



IFAS System - Transfer Pump Station

The Carrousel and IFAS Treatment Train Transfer Pump Stations have the ability to convey the CCC effluent to one of the following locations depending upon water quality (turbidity and total residual chlorine) and whether the reclaimed water ground storage tanks are full:

- Reclaimed Water Ground Storage Tanks (2 MG capacity, total)
- Ritch Grissom Memorial Wetlands (163[±] wetted acres, 2.5 MGD capacity)
- Reuse/Reject Water Storage Ponds (100 MG capacity, total)

Turbidity, pH and Total Residual Chlorine (TRC) are analyzed continuously and automatically at the South Central Regional WRF in accordance with the existing FDEP Operations Permit conditions and as presented below:

South Central Regional WRF - FDEP Compliance Monitoring Locations		
Compliance Parameter	Carrousel BNR System	IFAS BNR System
Turbidity	EFB-1 (After Filtration, prior to disinfection)	EFB-2 (After Filtration, prior to disinfection)
Total Residual Chlorine, pH	EFA-1 (Following disinfection)	EFA-2 (Following disinfection)

3.2.9 Reclaimed Water/Effluent Disposal System

The South Central Regional WRF effluent disposal systems, permitted by FDEP, are briefly described below:

Effluent Disposal System	Description
Surface Water Discharge (D-001)	An existing 0.990 MGD annual average daily flow discharge to 4-Mile Canal, Class III Fresh Waters, (WBID# 2893N) which is approximately 128 feet in length and discharges at a depth of approximately 0 feet. The outfall pipe is a 60-inch diameter concrete culvert that discharges to the 4-Mile Canal. The point of discharge is located approximately at latitude 28°13' 48" N, longitude 80°46' 14" W.
Land Application System (R-001)	An existing 8.2 MGD annual average daily flow permitted capacity slow-rate public access system. R-001 is a reuse system which consists of on-site irrigation and within the approved Reuse Service Area. Reclaimed water can be discharged into stormwater storage lake system(s) D-002 located at the Indian River Colony Club Golf Course. The reclaimed water is stored in an existing stormwater retention pond with a storage capacity of 4.5 MG, which has an intermittent discharge to adjacent drainage features (6-Mile Canal), which ultimately discharges to the St. Johns River.
Land Application System (R-002)	An existing 2.5 MGD annual average daily flow permitted capacity slow-rate restricted public access system. R-002 is a reuse system which consists of the Ritch Grissom Memorial Wetlands with 200+ acres (163+ total wetted acres) comprising four (4) cells and an interior lake. The detention time through this created wetland system is approximately 53 days, and is located approximately at latitude 28°13' 47" N, longitude 80°46' 18" W.

Reclaimed water meeting the Public Access Criteria is pumped from the Transfer Pump Stations to a pair of Reclaimed Water Ground Storage Tanks (1.0 MG capacity each). The pre-stressed concrete storage tanks are *in-line equalization facilities* that also offer an effluent water quality buffer before it is pumped to the reclaimed water distribution system.



Reclaimed Water Ground Storage Tanks

The Reclaimed Water Distribution Pump Station conveys reclaimed water from the reclaimed water ground storage tanks to the distribution system for final disposal. The pump station consists of three (3) split-case centrifugal pumps and is designed to deliver approximately 9.072 MGD to the reclaimed water distribution system with the largest pump out of service. The pumps are equipped with variable frequency drives (VFD's) that assist in maintaining system pressures, efficiently, when the demand for reclaimed water in the service area is low.



RW Distribution Pump Station Bldg

If the reclaimed water ground storage tanks are full, reclaimed water can be directed to either the Ritch Grissom Memorial Wetlands or the Reuse/Reject Water Storage Ponds.

Any reclaimed water that does not meet the Public Access Criteria (low chlorine residual or high turbidity) will not be pumped to the Reclaimed Water Ground Storage Tanks. The effluent will be conveyed to either the Ritch Grissom Memorial Wetlands or the Reuse/Reject Water Storage Ponds. The water from the storage ponds can be pumped back to the either the headworks, tertiary filter, or the chlorine contact chambers for re-treatment, during periods of low flow.



South Central Regional WRF, Wetlands and Storage Ponds

The South Central Regional Wastewater Management Plan is a program of water reuse. Following the reclamation process at the South Central Regional WRF, highly treated wastewater effluent, *reclaimed water*, is distributed throughout the regional planning area. Spray irrigation and land application are currently practiced in areas open to public access, including:

South Central Regional Reclaimed Water Irrigation/Diposal Sites (General)		
Residential Neighborhoods	Parks	School Properties
Athletic Complexes	County-Owned Properties	Golf Courses
Playgrounds	Nurseries	Agricultural Facilities/Farms
Ritch Grissom Memorial Wetlands	Other Municipal Sites	Commercial Establishments

As mentioned above, during discharges from the Ritch Grissom Memorial Wetlands to the 4-Mile Canal, monitoring of the following parameters is required:

- Flow Rate
- CBOD₅
- TSS
- Total Kjeldahl Nitrogen
- Nitrate + Nitrite
- Ammonia Nitrogen
- Sulfate
- Total and Ortho-Phosphorous
- pH
- Fecal Coliform Bacteria
- Total Nitrogen
- Chloride
- Specific Conductance
- Dissolved Oxygen
- Temperature
- Alkalinity

3.2.10 Sludge Management System

The sludge management system at the South Central Regional WRF consists of the following infrastructure components/elements: (1) a sludge holding tank system; (2) a belt filter press dewatering system, and (3) a system of sludge conveyors.



Sludge Holding Tanks

Waste Activated Sludge (WAS) is pumped from the Carousel and IFAS Treatment System secondary clarifier(s) to the Sludge Holding Tank(s). Two (2) sludge holding tanks (0.169 MG, each) are used to store and partially treat sludge until it can be pumped to the belt filter presses for dewatering. The sludge is mixed and aerated using a hyperboloid mixing/aeration system.

Sludge feed pumps are used to convey partially stabilized sludge from the sludge holding tanks to the belt filter presses. Three (3) belt filter presses are utilized to dewater the sludge prior to shipment to a local Class I solids waste landfill for final disposal. Dewatering reduces the volume and makes the handling and disposal of sludge easier.



Belt Filter Presses

3.3 PERMITTED CAPACITY

The South Central Regional WRF (*Advanced Wastewater Treatment plus Filtration*) serves the County's residential, commercial, agricultural and rural areas. The treatment facility removes contaminants in the raw wastewater that exert an oxygen demand (BOD₅ and nutrients) and produces a high quality reclaimed water utilized throughout the South Central Regional Reclaimed Water Service Area.

The design capacity of the South Central Regional WRF is as follows:

TREATMENT FACILITY	PERMITTED FLOW CONDITION (MGD)		
	AADF	MDF	PHF
South Central Regional WRF	12.00	18.00	24.00

The County accomplishes effluent disposal through the following FDEP reuse/effluent disposal methods outlined in Operations Permit No. FL0102679: (1) Slow-Rate Public Access Reuse, System (R-001); (2) Slow-Rate restricted Public Access Reuse System (R-002); (3) Surface water discharge system (D-001) - Ritch Grissom Memorial Wetlands; and (4) Stormwater storage lake system(s) (D-002) - Stormwater Storage Lake System

The County has, as previously described, implemented a large-scale system for the beneficial reuse of the reclaimed water produced from the South Central Regional WRF. The County began large-scale reclaimed water irrigation of public access sites in 1990 and restricted public access (Ritch Grissom Memorial Wetlands) in 2000. New reclaimed water sites may be added as the reclaimed water service area expands in the future. The major users of reclaimed water (using more than 0.1 MGD) in the South Central Regional Reclaimed Water Service Area are identified in the table below and presented graphically in Figure 3.3-1.

Site No.	User Name	User Type	Capacity (MGD)	Area (ac)
PAA-001A	Baytree Golf Course	Golf Courses	0.410	103
PAA-001B	Indian River Colony Club Golf Course	Golf Courses	0.730	220
PAA-001C	Duran Golf Course	Golf Courses	0.380	136
PAA-001E	Viera East Golf Course	Golf Courses	0.290	100
Total:			1.810	559

Reclaimed water storage is located throughout the County's South Central Regional Wastewater Management Service Area as indicated in the table below.



Reclaimed Water Storage Location	No. of Units	Total Storage Volume (MG)
South Central Regional WRF Ground Storage Tanks	2	2.0
Reuse/Reject Water Storage Ponds (Off-Site)	2	100.0
Golf Course Storage Ponds (Baytree, Viera, Indian River Colony Club, and Duran)	4	11.9
Ground Storage Tank near the Suntree CC	1	2.0
Total Reclaimed Water Storage Capacity:	9	115.9

The current effluent disposal capacity of the South Central Regional Reclaimed Water Distribution System is as follows:

South Central Regional Effluent Disposal System	ID	Effluent Disposal Capacity (MGD)
Slow-Rate Public Access System	R-001	8.20
Slow-Rate Restricted Public Access System (Wetlands)	R-002	2.50
Surface Water Discharge	D-001	0.99
SCRWRF - Total Effluent Disposal Capacity:		11.69

3.4 HISTORICAL WASTEWATER FLOWS

Historical wastewater flows, including monthly ADF flows, three-month ADF flows and annual ADF flows, for the South Central Regional WRF for the Calendar Years 2015 - 2020 are presented in Table 3.4-1 and are plotted as a function of time in Figures 3.4-1 through 3.4-3, respectively. Historical annual variations in raw wastewater flow (Calendar Years 2016 - 2020) are presented below in tabular form and graphically in Figure 3.4-4.

Calendar Year	AADF (MGD)	Max Month Flow (MGD)	Maximum 3-Month ADF		Maximum 3-Month ADF to AADF	Maximum Month Peaking Factor
			Month	Flow (MGD)		
2016	4.777	5.300	April	5.204	1.089	1.109
2017	5.031	5.552	November	5.320	1.057	1.104
2018	5.088	5.803	August	5.436	1.068	1.141
2019	4.380	5.045	January	4.911	1.121	1.152
2020	4.872	5.385	August	5.285	1.085	1.105
Five Year Average Flow Ratios/Factors:					1.084	1.122

Table 3.4-1: South Central Regional WRF - Historical Wastewater Flows

Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2015	4.703	4.929	4.622
FEBRUARY	2015	4.743	4.846	4.658
MARCH	2015	5.217	4.888	4.733
APRIL	2015	4.552	4.837	4.758
MAY	2015	4.482	4.750	4.786
JUNE	2015	4.432	4.489	4.819
JULY	2015	4.708	4.541	4.844
AUGUST	2015	5.306	4.815	4.864
SEPTEMBER	2015	5.035	5.016	4.861
OCTOBER	2015	4.803	5.048	4.838
NOVEMBER	2015	4.831	4.890	4.825
DECEMBER	2015	4.759	4.798	4.798
JANUARY	2016	5.137	4.909	4.834
FEBRUARY	2016	5.157	5.018	4.868
MARCH	2016	5.155	5.150	4.863
APRIL	2016	5.300	5.204	4.925
MAY	2016	3.691	4.715	4.860
JUNE	2016	4.807	4.599	4.891
JULY	2016	3.848	4.115	4.819
AUGUST	2016	4.635	4.430	4.763
SEPTEMBER	2016	5.100	4.528	4.769
OCTOBER	2016	5.065	4.933	4.790
NOVEMBER	2016	4.617	4.927	4.773
DECEMBER	2016	4.806	4.829	4.777

Table 3.4-1: South Central Regional WRF - Historical Wastewater Flows (Cont'd)

Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2017	4.979	4.801	4.763
FEBRUARY	2017	5.011	4.932	4.751
MARCH	2017	4.787	4.926	4.721
APRIL	2017	4.982	4.927	4.694
MAY	2017	4.816	4.862	4.788
JUNE	2017	4.986	4.928	4.803
JULY	2017	4.843	4.882	4.886
AUGUST	2017	4.799	4.876	4.899
SEPTEMBER	2017	5.342	4.995	4.919
OCTOBER	2017	5.552	5.231	4.960
NOVEMBER	2017	5.066	5.320	4.997
DECEMBER	2017	5.214	5.277	5.031
JANUARY	2018	4.791	5.024	5.016
FEBRUARY	2018	4.896	4.967	5.006
MARCH	2018	4.960	4.882	5.021
APRIL	2018	4.911	4.922	5.015
MAY	2018	5.199	5.023	5.047
JUNE	2018	5.803	5.304	5.115
JULY	2018	5.182	5.395	5.143
AUGUST	2018	5.322	5.436	5.187
SEPTEMBER	2018	5.344	5.283	5.187
OCTOBER	2018	4.866	5.177	5.130
NOVEMBER	2018	4.879	5.030	5.114
DECEMBER	2018	4.897	4.881	5.088

Table 3.4-1: South Central Regional WRF - Historical Wastewater Flows (Cont'd)

Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2019	4.955	4.910	5.101
FEBRUARY	2019	4.743	4.865	5.088
MARCH	2019	4.108	4.602	5.017
APRIL	2019	4.069	4.307	4.947
MAY	2019	4.162	4.113	4.861
JUNE	2019	4.126	4.119	4.721
JULY	2019	4.095	4.128	4.631
AUGUST	2019	5.045	4.422	4.607
SEPTEMBER	2019	4.229	4.456	4.515
OCTOBER	2019	4.285	4.520	4.466
NOVEMBER	2019	4.1915	4.235	4.409
DECEMBER	2019	4.551	4.342	4.380
JANUARY	2020	4.362	4.368	4.331
FEBRUARY	2020	4.336	4.416	4.297
MARCH	2020	4.519	4.406	4.331
APRIL	2020	4.975	4.610	4.406
MAY	2020	4.926	4.807	4.470
JUNE	2020	5.385	5.095	4.575
JULY	2020	5.283	5.198	4.674
AUGUST	2020	5.189	5.285	4.686
SEPTEMBER	2020	5.030	5.167	4.753
OCTOBER	2020	4.886	5.035	4.803
NOVEMBER	2020	4.960	4.959	4.867
DECEMBER	2020	4.610	4.818	4.872

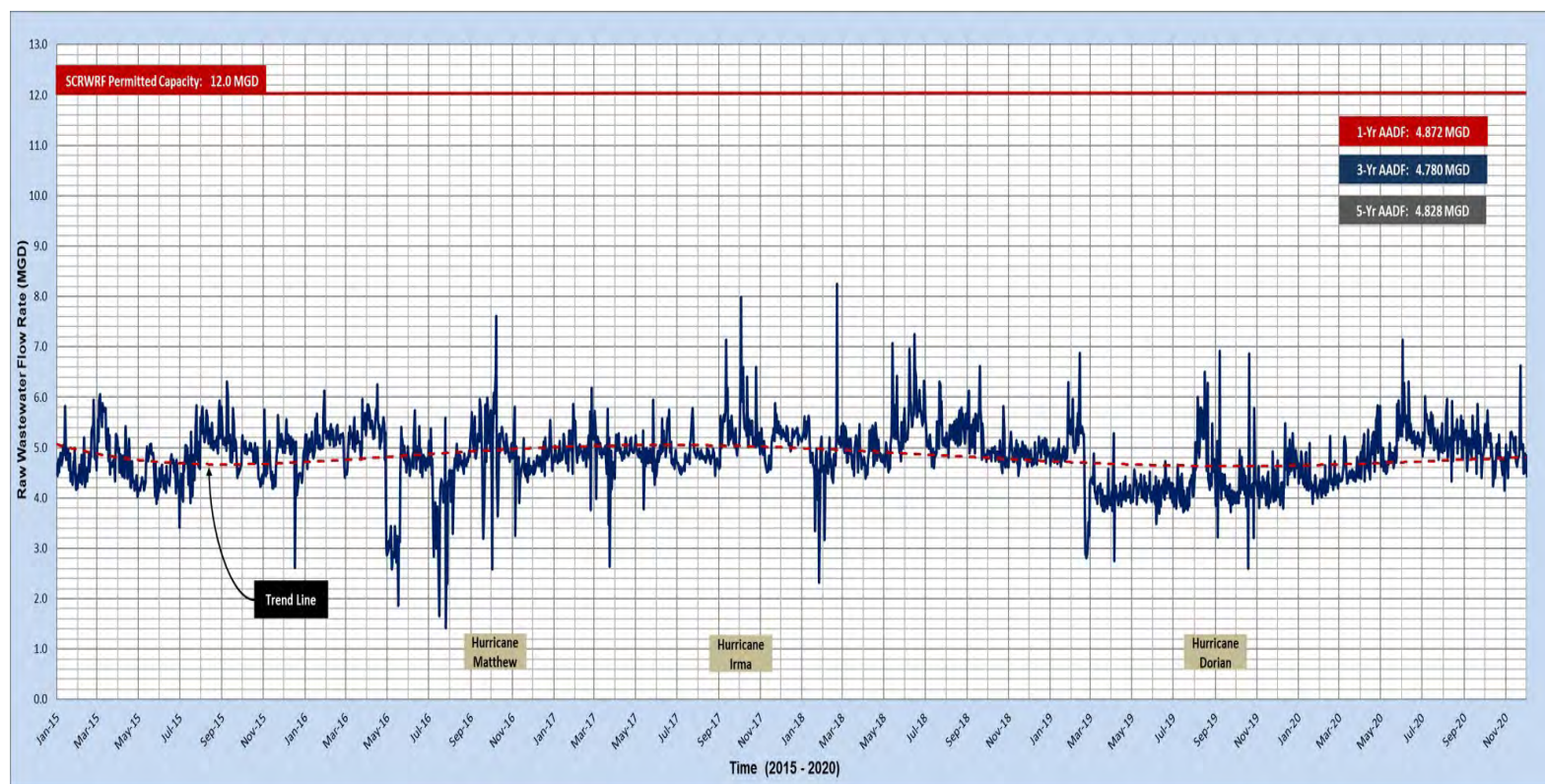


FIGURE 3.4-1

SOUTH CENTRAL REGIONAL WRF: HISTORICAL WASTEWATER FLOWS (ADF)

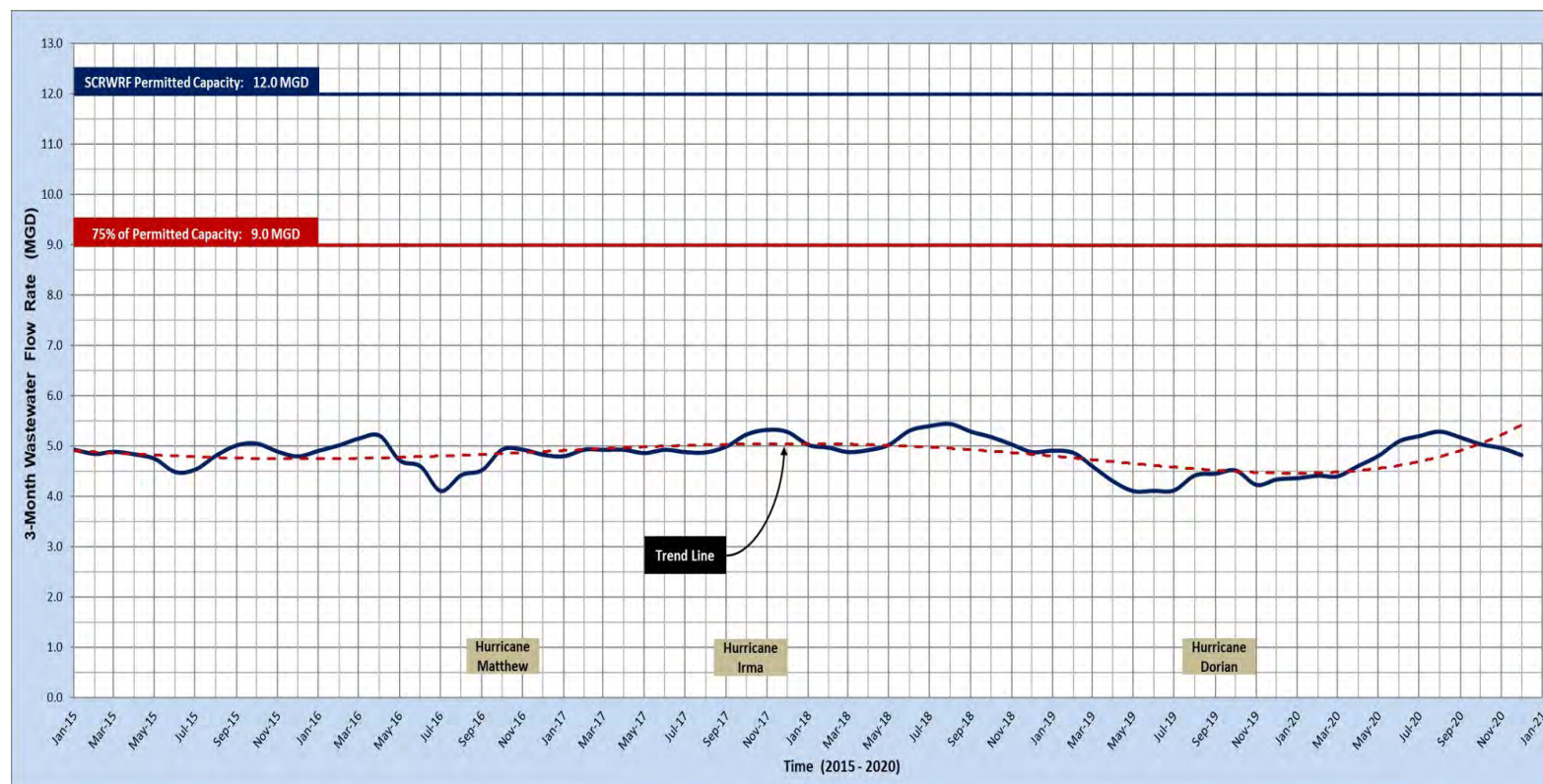


FIGURE 3.4-2

SOUTH CENTRAL REGIONAL WRF:
HISTORICAL WASTEWATER FLOWS (3-MONTH ADF)

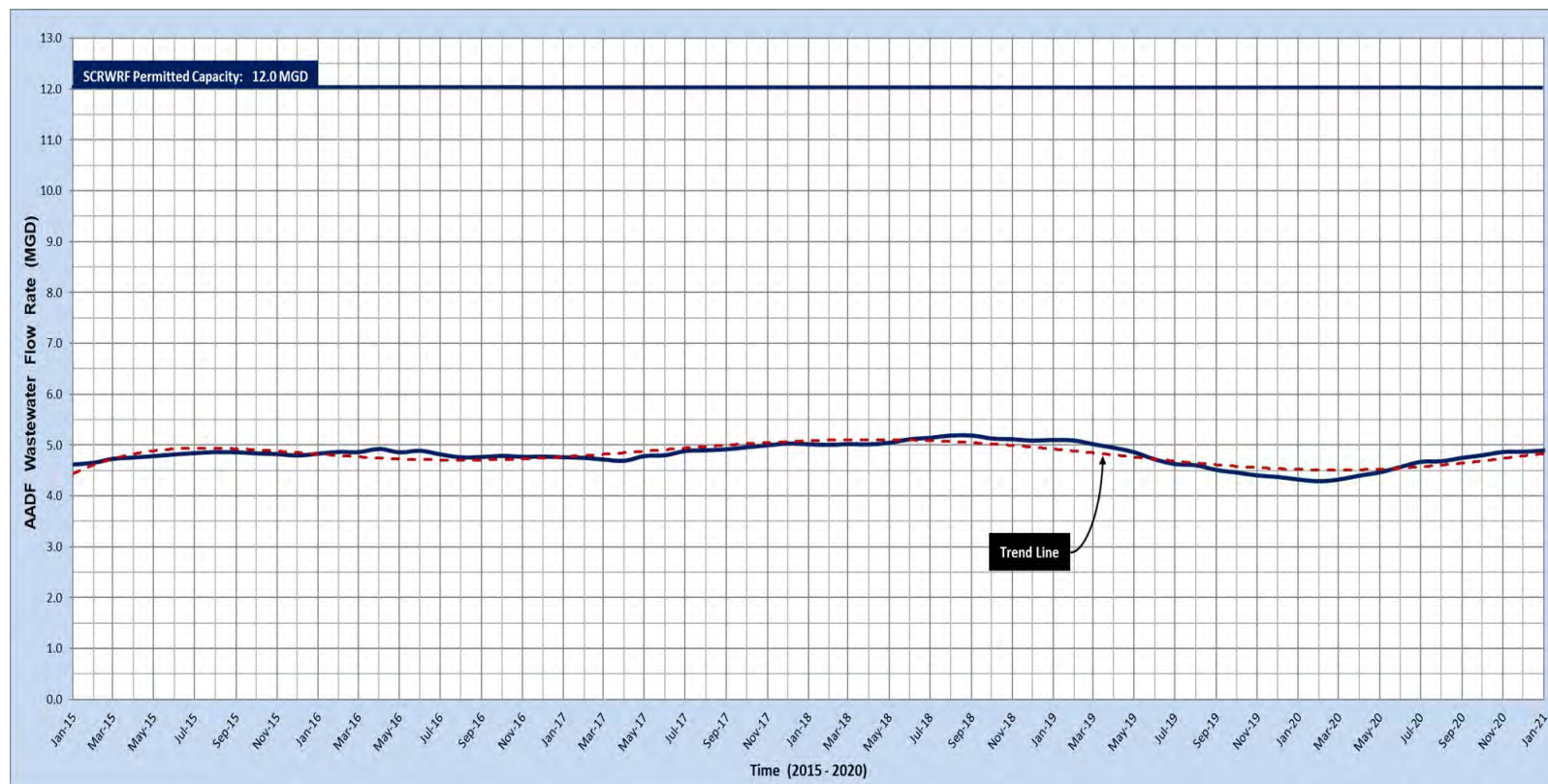


FIGURE 3.4-3

SOUTH CENTRAL REGIONAL WRF: HISTORICAL WASTEWATER FLOWS (AADF)

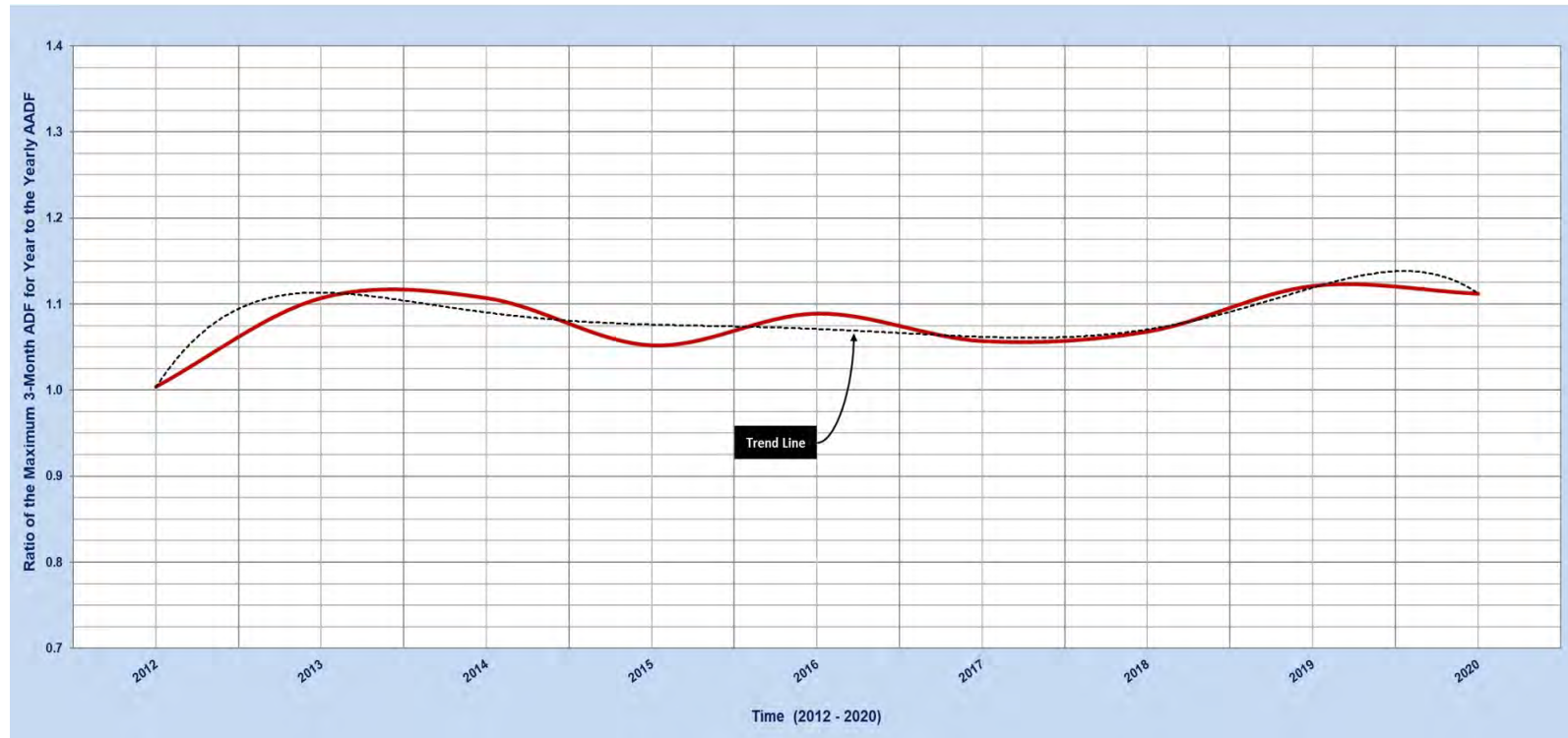


FIGURE 3.4-4

SOUTH CENTRAL REGIONAL WRF: ANNUAL VARIATIONS IN FLOW

A review of the historical raw wastewater flows to the South Central Regional WRF, during the past five (5) years and in the last twelve (12) months, are synopsisized in the table below.

Raw Wastewater Flow Condition	South Central Regional WRF Raw Wastewater Flow (MGD)	
	Jan 2016 - Dec 2020	Calendar Year 2020
Average Daily Flow	4.828	4.872
Maximum Day Flow	8.240	7.140
Minimum Day Flow	1.430	3.890
Monthly ADF Range	3.691 - 5.803	4.336 - 5.385
3-Month ADF Range	4.113 - 5.436	4.368 - 5.285
AADF Range (monthly rolling average)	4.297 - 5.187	4.297 - 4.872
% of Permitted Facility Capacity (ADF)	40.2	40.6

The South Central Regional WRF raw wastewater flows, during the last 5-Year period, were approximately 40.2% of the permitted capacity of the facility. The raw wastewater flow treated at the facility during Calendar Year 2020 was approximately 40.6% of the permitted capacity of the facility. Thus, flow rates are below the facility's permitted capacity (12.0 MGD AADF) and the South Central Regional WRF is capable of handling the raw wastewater hydraulic loadings anticipated over the 20-year planning horizon.

3.5 FACILITY EFFLUENT FLOWS

As previously indicated in Section 3.2.9, treated effluent from the South Central Regional WRF can be discharged to any of the three (3) FDEP-permitted disposal systems:

Effluent Disposal System	Disposal Capacity (MGD AADF)
Land Application System - Public Access Reuse (R-001)	8.20
Land Application System - Reclaimed Water Flow to Wetlands (R-002)	2.50
Surface Water Discharge to the 4-Mile Canal (D-001)	0.99

The South Central Regional WRF effluent flows, by disposal system (R-001, R-002 and D-001), on a monthly and annual basis, for the period from 2016 - 2020 are presented in Table 3.5-1 and graphically (ADF and AADF) in Figures 3.5-1 through 3.5-6, respectively.

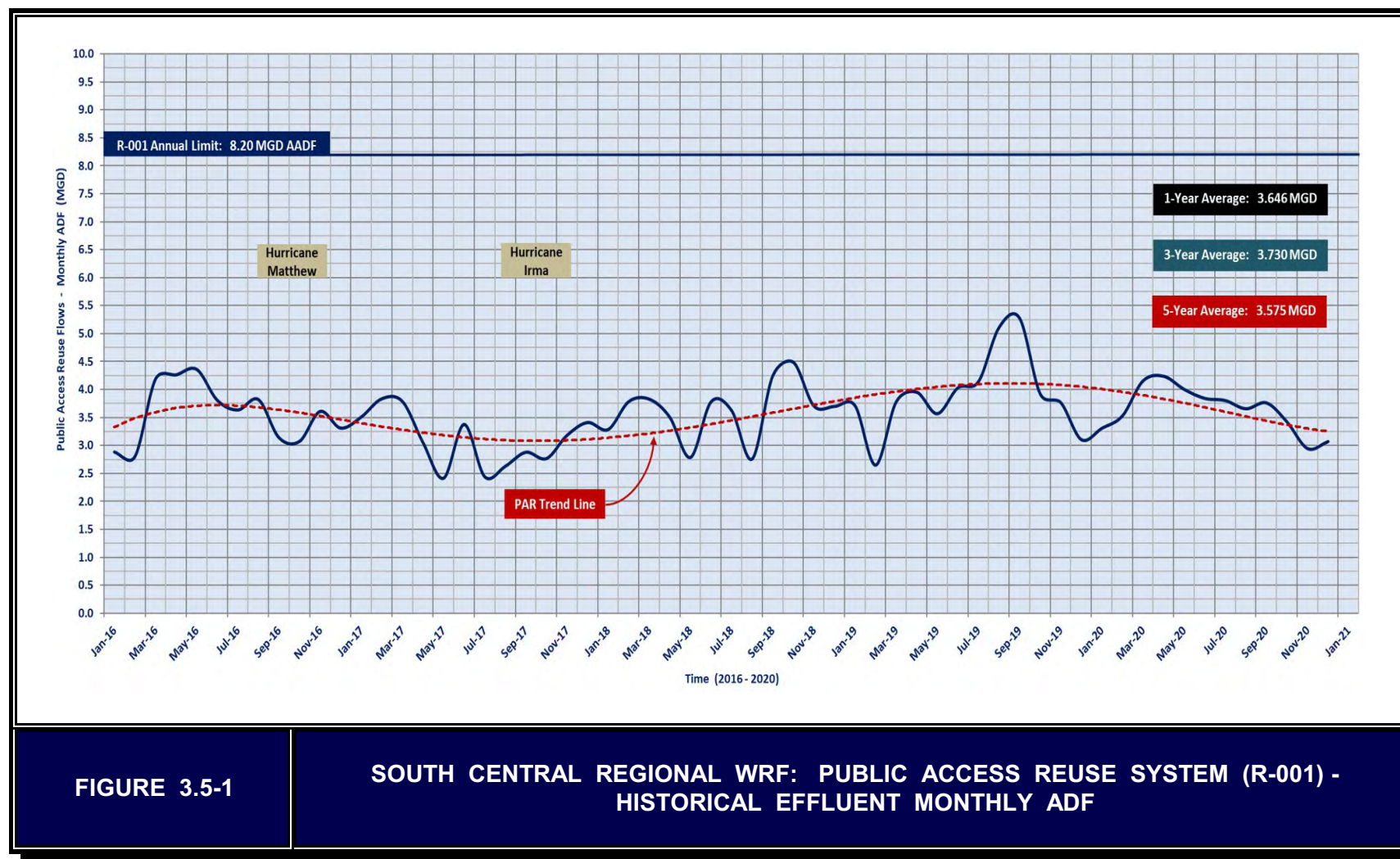
Table 3.5-1: South Central Regional WRF - Effluent Disposal (2016 - 2020)			
Month/Year	Public Access Reuse System Flow - R-001 (MGD)	Reclaimed Water Flow to the Wetlands - R-002 (MGD)	Surface Water Discharge Flow to 4-Mile Canal - D-001 (MGD)
Jan 2016	2.883	0.002	0.000
Feb 2016	2.802	0.170	0.000
Mar 2016	4.190	0.051	0.000
Apr 2016	4.265	0.014	0.000
May 2016	4.364	0.220	0.000
Jun 2016	3.810	0.527	0.000
Jul 2016	3.636	0.095	0.000
Aug 2016	3.823	0.599	0.000
Sep 2016	3.140	0.944	0.000
Oct 2016*	3.074	1.385	1.537
Nov 2016	3.610	0.455	0.129
Dec 2016	3.311	0.062	0.000
2016 Average	3.576	0.377	0.139
Jan 2017	3.510	0.186	0.000
Feb 2017	3.837	0.138	0.000
Mar 2017	3.789	0.372	0.000
Apr 2017	3.052	0.028	0.000
May 2017	2.413	0.153	0.000
Jun 2017	3.377	0.123	0.000
Jul 2017	2.440	1.047	0.000
Aug 2017	2.626	1.301	0.000
Sep 2017	2.879	0.493	0.691
Oct 2017**	2.765	1.504	2.242
Nov 2017	3.181	0.871	0.844
Dec 2017	3.412	0.791	0.046
2017 Average	3.107	0.584	0.319

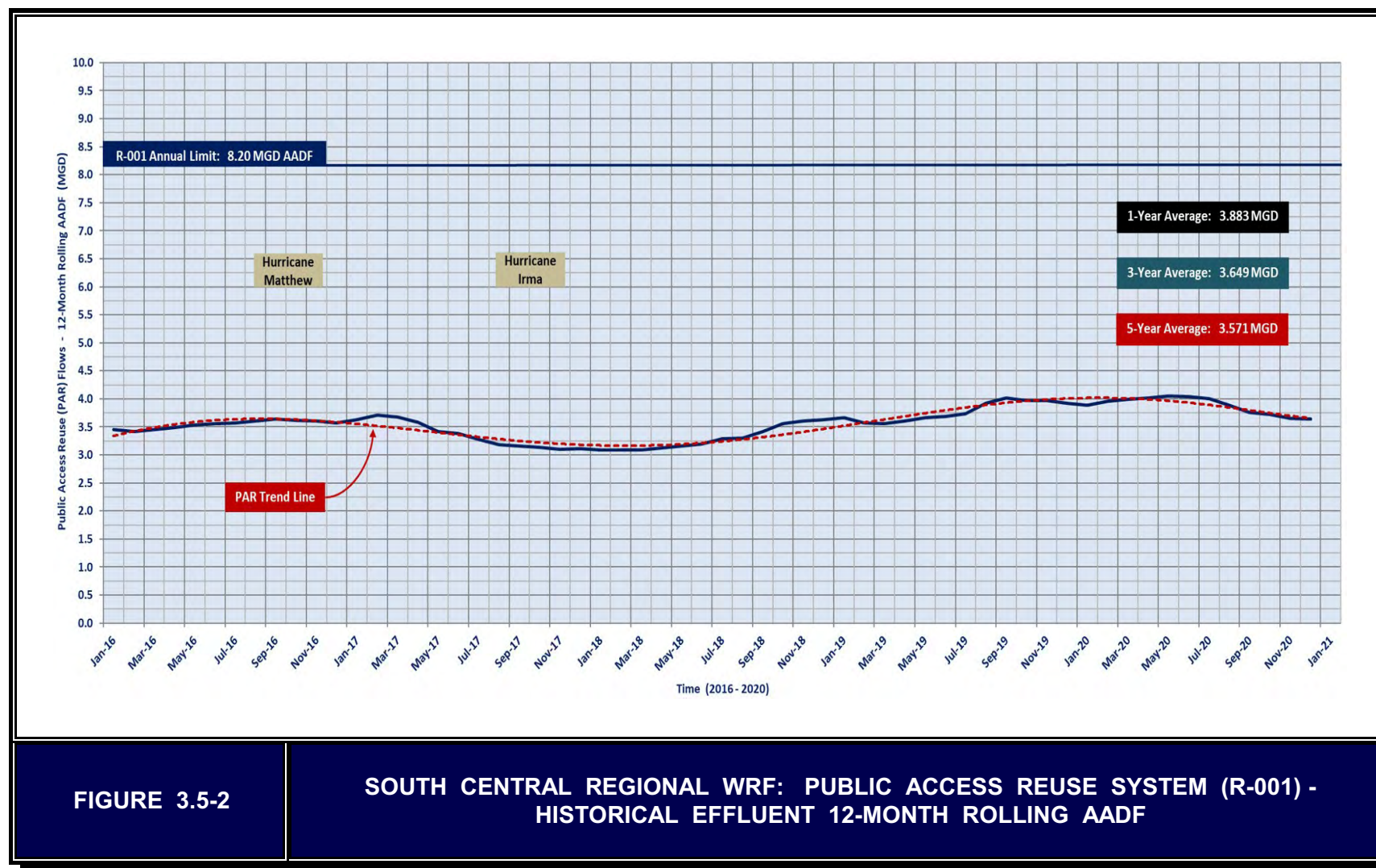
Table 3.5-1: South Central Regional WRF - Effluent Disposal (2016 - 2020)			
Month/Year	Public Access Reuse System Flow - R-001 (MGD)	Reclaimed Water Flow to the Wetlands - R-002 (MGD)	Surface Water Discharge Flow to 4-Mile Canal - D-001 (MGD)
Jan 2018	3.286	0.832	0.553
Feb 2018	3.785	0.248	0.000
Mar 2018	3.830	0.056	0.000
Apr 2018	3.504	0.000	0.000
May 2018	2.785	0.000	0.000
Jun 2018	3.780	0.640	0.000
Jul 2018	3.627	0.253	0.984
Aug 2018	2.759	0.000	0.000
Sep 2018	4.246	0.000	0.000
Oct 2018	4.493	0.000	0.000
Nov 2018	3.709	0.000	0.000
Dec 2018	3.700	0.000	0.000
2018 Average	3.625	0.169	0.128
Jan 2019	3.714	0.000	0.000
Feb 2019	2.649	0.000	0.000
Mar 2019	3.780	0.000	0.000
Apr 2019	3.955	0.000	0.000
May 2019	3.569	0.000	0.000
Jun 2019	4.033	0.000	0.000
Jul 2019	4.143	0.000	0.000
Aug 2019	5.113	0.000	0.000
Sep 2019	5.281	0.000	0.000
Oct 2019	3.926	0.000	0.000
Nov 2019	3.770	0.000	0.000
Dec 2019	3.105	0.548	0.000
2019 Average	3.920	0.046	0.000

Table 3.5-1: South Central Regional WRF - Effluent Disposal (2016 - 2020)						
Month/Year	Public Access Reuse System Flow - R-001 (MGD)		Reclaimed Water Flow to the Wetlands - R-002 (MGD)	Surface Water Discharge Flow to 4-Mile Canal - D-001 (MGD)		
Jan 2020	3.307		1.186	0.000		
Feb 2020	3.531		0.602	0.000		
Mar 2020	4.157		0.000	0.000		
Apr 2020	4.241		0.000	0.000		
May 2020	4.006		0.000	0.000		
Jun 2020	3.844		0.000	0.000		
Jul 2020	3.805		0.000	0.710		
Aug 2020	3.658		0.000	0.000		
Sep 2020	3.763		0.000	0.000		
Oct 2020	3.421		0.000	0.308		
Nov 2020	2.945		0.000	0.000		
Dec 2020	3.070		0.000	0.000		
2020 Average	3.646		0.149	0.085		
Effluent Disposal Percentage by Disposal System (2016 - 2020)						
Calendar Year	Effluent Disposal System Flow (MGD AADF)			Overall Effluent Disposal (%)		
	Reclaimed Water System - PAR (R-001)	Reclaimed Water to Wetland (R-002)	Surface Water Discharge (D-001)	Reclaimed System (R-001)	Reclaimed System (R-002)	SW Discharge (D-001)
2016	3.576	0.377	0.139	87.4%	9.2%	3.4%
2017	3.107	0.584	0.319	77.5%	14.6%	8.0%
2018	3.625	0.169	0.128	92.4%	4.3%	3.3%
2019	3.920	0.046	0.000	98.8%	1.2%	0.0%
2020	3.646	0.149	0.085	94.0%	3.8%	2.2%
5-Yr Avg.	3.575	0.265	0.134	90.0%	6.6%	3.4%
Overall 5-Year SCRWRF Effluent Disposal by System:				Reclaimed Water (R-001 + R-002)		Surface Water Discharge (D-001)
				96.6%		3.4%

* Surface Water Discharge due to Hurricane Matthew

** Surface Water Discharge due to Hurricane Irma





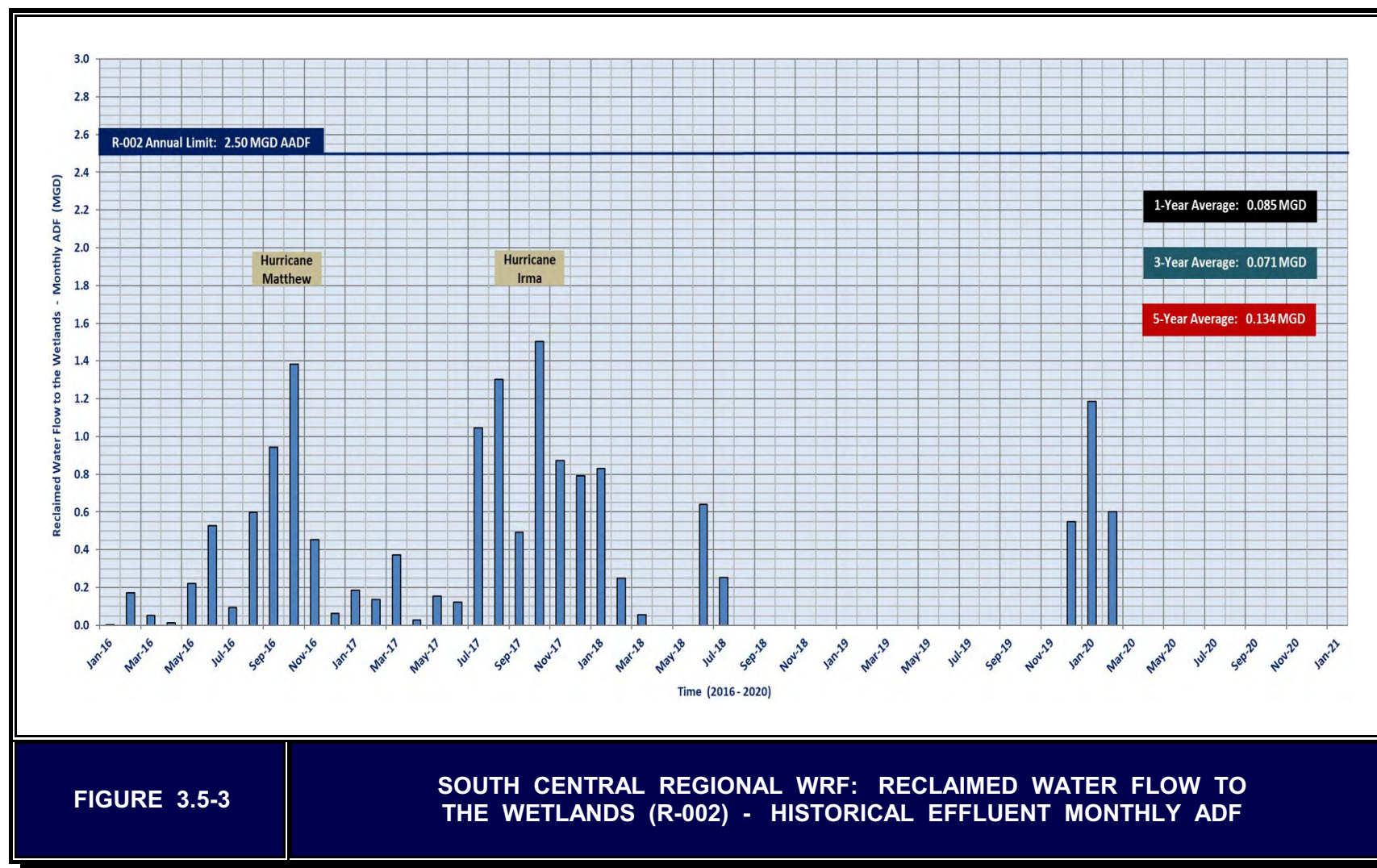


FIGURE 3.5-3

SOUTH CENTRAL REGIONAL WRF: RECLAIMED WATER FLOW TO THE WETLANDS (R-002) - HISTORICAL EFFLUENT MONTHLY ADF

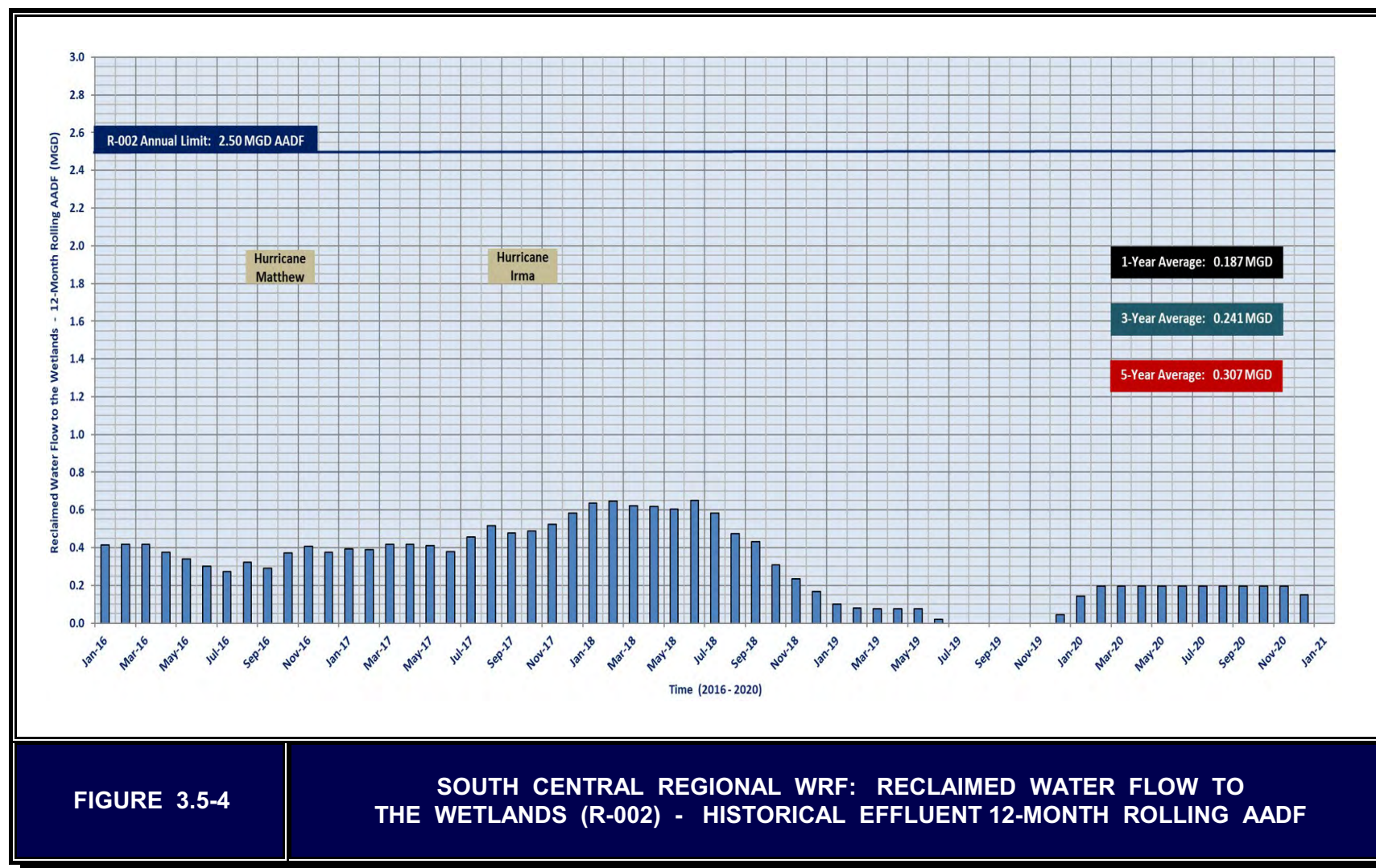


FIGURE 3.5-4

SOUTH CENTRAL REGIONAL WRF: RECLAIMED WATER FLOW TO THE WETLANDS (R-002) - HISTORICAL EFFLUENT 12-MONTH ROLLING AADF

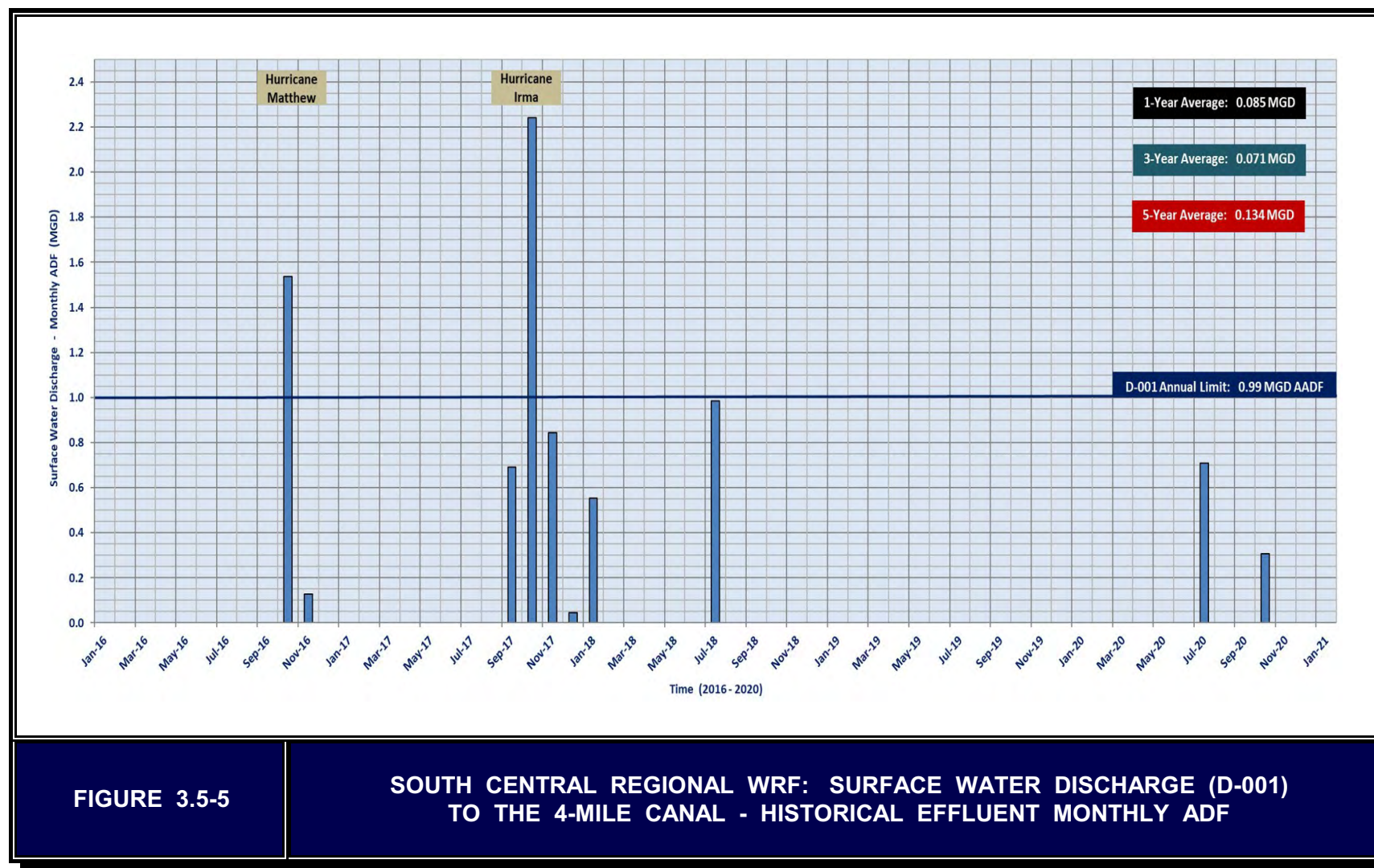


FIGURE 3.5-5

SOUTH CENTRAL REGIONAL WRF: SURFACE WATER DISCHARGE (D-001)
TO THE 4-MILE CANAL - HISTORICAL EFFLUENT MONTHLY ADF

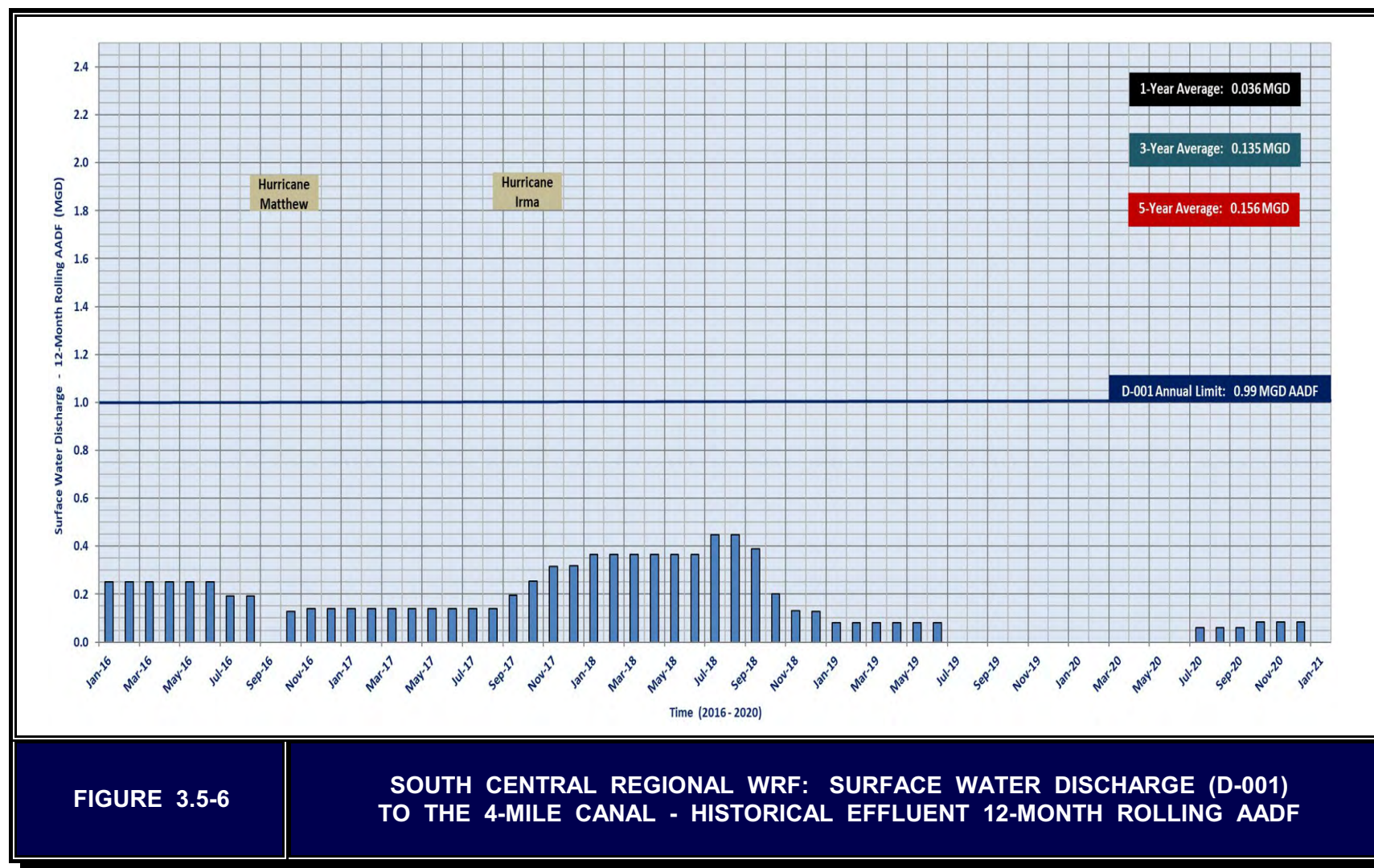


FIGURE 3.5-6

**SOUTH CENTRAL REGIONAL WRF: SURFACE WATER DISCHARGE (D-001)
TO THE 4-MILE CANAL - HISTORICAL EFFLUENT 12-MONTH ROLLING AADF**

The South Central Regional WRF has reused approximately 96.6% of the facility's annual average effluent flow over the five-year period from 2016 - 2020. Only 3.4% of the effluent flow over this five year period were surface water discharges from the Ritch Grissom Memorial Wetlands to the 4-Mile Canal; these mainly due to discharges occurring from the intense rainfall events associated with Hurricane Matthew (October 2016) and Hurricane Irma (October 2017). **Therefore, the South Central Regional WRF meets the requirements of 403.064(17)(a)(3)(d) in that it has reused a minimum of 90% of the facility's effluent AADF over the past five (5) calendar years (2016 - 2020).**

3.6 FACILITY EFFLUENT QUALITY

Reclaimed water quality (CBOD₅, TSS, TN, TP, pH and Fecal Coliform) generated by the South Central Regional WRF, for the last five calendar years (2016 - 2020), is presented in Table 3.6-1. The South Central Regional WRF treatment system efficiencies, for the same five-year period are presented below:

South Central Regional WRF - Treatment System Efficiency (2016 - 2020)*							
Parameter	Influent Conc. (mg/L)	Influent Loading (lb/day)	Effluent Conc. (mg/L)	Effluent Load (lb/day)	Parameter Removal (lb/day)	Percent Removal	
						Design	Actual
CBOD ₅	191	7,695	2.2	113	9,566	90%	98.8%
TSS	231	9,305	1.0	52	11,653	90%	99.6%
TN**	50	2,013	6.4	324	2,208	80%	87.2%
TP**	8	322	0.6	31	374	70%	92.4%

* AADF (2016 - 2020): 4.828 MGD

** Assumed Influent Concentration (testing not required by permit)

3.6.1 CBOD₅ Treatment (Removal) Efficiency

Over the last five-year period (Calendar Years 2016 - 2020), actual influent CBOD₅ concentrations have been below the values used in the design of the facility (300 mg/L). The South Central Regional WRF has the ability to operate efficiently between 50 mg/L and 400 mg/L by adjusting process operations.

The effluent CBOD₅ concentrations are below the design values used for the facility, typical AWT standards (< 5 mg/L), and meet the limitations identified in the current FDEP Operations Permit.

Table 3.6-1: South Central Regional WRF - Reclaimed Water Quality (2016 - 2020)						
Month/Year	CBOD₅ (mg/L)	TSS (mg/L)	TN (mg/L)	TP (mg/L)	pH (S.U.)	Fecal (#/100 mL)
Permit Limit	20	5	---	---	6.0 - 8.5	25
Jan 2016	1.1	0.7	8.1	0.8	7.44	< 1
Feb 2016	1.3	0.6	7.0	0.4	7.39	< 1
Mar 2016	1.3	0.7	7.4	1.5	7.34	< 1
Apr 2016	1.1	1.1	5.7	4.0	7.37	< 1
May 2016	1.4	1.3	8.5	1.9	7.19	< 1
Jun 2016	2.4	1.3	10.0	1.2	7.25	< 1
Jul 2016	1.7	1.4	7.0	0.8	7.26	< 1
Aug 2016	1.8	1.0	7.3	0.4	7.30	< 1
Sep 2016	1.9	0.7	8.8	0.1	7.28	< 1
Oct 2016	1.9	0.5	8.9	0.1	7.35	< 1
Nov 2016	2.1	1.0	8.1	0.3	7.36	< 1
Dec 2016	1.2	1.3	7.9	0.6	7.37	< 1
2016 Avg.	1.6	1.0	7.9	1.0	7.33	< 1
Jan 2017	1.8	1.3	8.3	0.8	7.43	< 1
Feb 2017	1.4	1.5	8.6	0.5	7.38	< 1
Mar 2017	2.7	1.3	7.4	0.3	7.34	< 1
Apr 2017	1.4	1.4	7.4	0.6	7.32	< 1
May 2017	5.5	0.5	6.3	0.2	7.42	< 1
Jun 2017	1.2	0.8	6.2	1.7	7.43	< 1
Jul 2017	1.9	0.6	6.6	0.7	7.43	< 1
Aug 2017	1.0	0.6	7.7	2.8	7.41	< 1
Sep 2017	1.3	1.8	4.9	0.3	7.40	< 1
Oct 2017	2.6	2.6	8.0	0.7	7.30	< 1
Nov 2017	1.2	1.1	7.3	0.8	7.28	< 1
Dec 2017	1.4	1.1	7.4	0.2	7.30	< 1
2017 Avg.	2.0	1.2	7.2	0.8	7.37	< 1

Table 3.6-1: South Central Regional WRF - Reclaimed Water Quality (2016 - 2020)						
Month/Year	CBOD ₅ (mg/L)	TSS (mg/L)	TN (mg/L)	TP (mg/L)	pH (S.U.)	Fecal (#/100 mL)
Permit Limit	20	5	---	---	6.0 - 8.5	25
Jan 2018	1.3	1.4	2.5	0.1	7.33	< 1
Feb 2018	2.1	1.5	8.4	0.2	7.31	< 1
Mar 2018	1.4	1.1	9.3	0.2	7.12	< 1
Apr 2018	1.4	1.6	7.5	0.5	7.12	< 1
May 2018	1.6	1.1	10.0	1.7	7.21	< 1
Jun 2018	1.1	0.7	6.5	0.1	7.39	< 1
Jul 2018	1.7	0.6	8.3	0.1	7.38	< 1
Aug 2018	1.5	1.0	7.8	1.8	7.22	< 1
Sep 2018	1.2	0.8	9.6	0.3	7.14	< 1
Oct 2018	1.0	1.0	9.7	0.7	7.11	< 1
Nov 2018	1.8	1.4	7.9	0.8	7.12	< 1
Dec 2018	2.0	1.9	8.1	0.4	6.94	< 1
2018 Avg.	1.5	1.2	8.0	0.6	7.20	< 1
Jan 2019	2.0	1.6	9.3	0.2	6.89	< 1
Feb 2019	2.0	1.7	8.2	0.1	6.83	< 1
Mar 2019	1.6	2.0	8.5	1.3	6.98	< 1
Apr 2019	1.3	1.5	8.5	1.7	7.27	< 1
May 2019	2.7	0.6	4.7	0.2	7.25	< 1
Jun 2019	2.7	0.8	7.5	0.5	7.19	< 1
Jul 2019	2.0	1.4	6.0	0.2	7.37	< 1
Aug 2019	2.2	0.9	2.2	0.3	7.38	< 1
Sep 2019	2.8	1.1	2.8	0.6	7.39	< 1
Oct 2019	2.5	0.6	3.3	0.5	7.26	< 1
Nov 2019	2.6	0.6	3.6	0.3	7.26	< 1
Dec 2019	3.5	0.6	3.1	0.4	7.31	< 1
2019 Avg.	2.3	1.1	5.6	0.5	7.20	< 1

Table 3.6-1: South Central Regional WRF - Reclaimed Water Quality (2016 - 2020)						
Month/Year	CBOD ₅ (mg/L)	TSS (mg/L)	TN (mg/L)	TP (mg/L)	pH (S.U.)	Fecal (#/100 mL)
Permit Limit	20	5	---	---	6.0 - 8.5	25
Jan 2020	1.8	0.6	2.9	0.3	7.30	< 1
Feb 2020	3.4	0.7	3.2	0.2	7.08	< 1
Mar 2020	4.8	0.6	3.4	0.2	7.16	< 1
Apr 2020	4.1	0.6	3.0	0.1	7.23	< 1
May 2020	5.1	0.6	4.0	0.4	7.25	< 1
Jun 2020	4.3	0.6	2.9	0.1	7.29	< 1
Jul 2020	4.6	0.6	4.6	0.1	7.20	< 1
Aug 2020	5.2	0.6	3.2	0.1	7.04	< 1
Sep 2020	4.9	0.6	3.6	0.1	7.07	< 1
Oct 2020	4.4	0.6	3.0	0.1	7.06	< 1
Nov 2020	2.1	1.4	3.0	0.1	7.45	< 1
Dec 2020	1.1	0.7	3.5	0.2	7.07	< 1
2020 Avg.	3.8	0.6	3.4	0.2	7.18	< 1
5-Year Avg.	2.2	1.0	6.4	0.6	7.26	< 1
5-Yr % Removal	98.8%	99.6%	87.2%	92.4%	---	---

The 5-Year CBOD₅ treatment (removal) efficiency averaged approximately 98.8%; which is greater than the design treatment efficiency of 90% and the minimum FDEP requirement of 85%. The CBOD₅ treatment (removal) efficiency has averaged 97.3% since the IFAS BNR improvements have been completed. The effluent CBOD₅ concentration from the facility has been significantly below the design value of 5 mg/L. ***Thus, the South Central Regional WRF is highly effective in removing organic wastes from the raw wastewater.***

3.6.2 TSS Treatment (Removal) Efficiency

Over the last five-year period (Calendar Years 2016 - 2020), actual influent TSS concentrations have been below the values used in the design of the facility (300 mg/L); although the facility has the ability to operate efficiently between 40 mg/L and 500 mg/L by adjusting process operations.

The effluent TSS concentrations are below the design values used for the facility, typical AWT standards (< 5 mg/L) and meet the limitations identified in the current FDEP Operations Permit.

The 5-Year TSS treatment (removal) efficiency averaged approximately 99.6%; which is greater than the design treatment efficiency of 90% and the minimum FDEP requirement of 85%. The TSS treatment (removal) efficiency has averaged 99.6% since the IFAS BNR improvements have been completed. The effluent TSS concentration has been significantly below the design value of 5 mg/L. ***Thus, the South Central Regional WRF is highly effective in removing suspended solids from the raw wastewater as well as those generated in the treatment process.***

3.6.3 TN Treatment (Removal) Efficiency

Over the last five-year period (Calendar Years 2016 - 2020), actual influent TKN concentrations have been in the range of values used in the design of the facility (50 mg/L). The facility has the ability to operate efficiently between 20 mg/L and 60 mg/L by adjusting process operations.

The 5-Year TN treatment (removal) efficiency averaged approximately 87.2%. However, the TN treatment (removal) efficiency has averaged 92.6% since the IFAS BNR Treatment System became operational (2019) with an average effluent TN concentration of 3.4 mg/L in Calendar Year 2020. The new IFAS BNR System has significantly reduced the facility effluent TN concentration and, with minor operational modifications and control strategies, is capable of meeting AWT standards.

In contrast, during the period from January 2016 - April 2019 when the Carrousel BNR System was the only treatment technology operating at the SCRWRF (the IFAS BNR System had not been constructed), the effluent TN concentration averaged 7.90 mg/L. ***Therefore, if the Carrousel BNR System is to be utilized to treat wastewater at the SCRWRF in the future, significant operational, process and infrastructure improvements will be required in order to meet the AWT standard for TN (< 3 mg/L) and ensure that the facility is in compliance with the effluent TN limitations mandated in its FDEP Operations Permit. It is recommended that a process engineering evaluation/study be conducted to address the elevated effluent TN concentrations and provide both short-term and long-term recommendations and solutions to resolve this issue.*** Items to be evaluated and assessed in the evaluation/study include, but are not limited to, the following:

- Hydraulic and aeration issues in the anaerobic treatment basins and their impact on the BNR system performance.

- Assessment of how the facility operators are/were running the Carrousel BNR Treatment System (operational parameters, MLSS concentration, SRT's, recycle rates, etc.).
- Evaluation of the hydraulic detention and solids residence times within the BNR system basins and their impact of efficient nitrogen removal.
- Evaluation of the potential conversion of the Carrousel BNR System to a fine bubble aeration system with energy efficient blowers in lieu of the existing treatment system turbines (for aeration of the mixed liquor only).
- Assessment associated with creating a plug-flow regime within the Carrousel oxidation ditches (more efficient in the treatment of the wastewater) through the addition of internal walls throughout the reactor rather than the continued use of the complete-mix flow regime that exists in the biological reactor today.
- Evaluation of the advantages and impacts associated with replacement of the existing Carrousel EliminatIR[®] Gates with an Internal Recycle (IR) pumping system to provide better operational control of the recycling of nitrate rich effluent from the aerobic basins to the primary anoxic basins thereby enhancing TN removal. The existing EliminatIR[®] gates are in poor condition and very difficult to control; thereby reducing the efficiency of the denitrification process and TN removal.
- Evaluation of the potential to include swing zones within the Carrousel BNR System that can be switched between anoxic and aerobic operation providing the facility operators with real-time control of the available reactor volume and biomass inventory for efficient nitrification and denitrification performance.
- Providing real-time instrumentation and automation to effectively identify the performance of the nitrification and denitrification processes within the biological reactor basins and allowing the SCADA system to make modifications to enhance the removal of nitrogen from the wastewater.
- Evaluation of a more efficient primary and secondary anoxic mixing system and their impacts on the overall TN removal and energy consumption within the Carrousel BNR System.
- Assessment of the impact of converting the Carrousel BNR System into a more efficient, multi-staged biological treatment system with respect to nutrient removal.

- Evaluation of process configuration modifications within the Carrousel BNR System.
- Evaluation of the InDense Gravimetric Selection Technology® on the operations of the Carrousel BNR System. The InDense system encourages aerobic granular sludge formation, allows a higher concentration of MLSS to be retained in the biological reactor, improves reactor operations, enhances nitrogen and phosphorus removal, promotes denser sludge selection (enhances MLSS settling in the clarifiers) and can potentially increase the treatment capacity of the BNR system without adding additional tankage.

3.6.4 TP Treatment (Removal) Efficiency

Over the last five-year period (Calendar Years 2016 - 2020), actual influent TP concentrations have been in the range of values used in the design of the SCRWRF. The facility has the ability to operate efficiently between 2 mg/L and 12 mg/L by adjusting process operations and/or adding alum/polymer to the BNR Treatment System reaeration basins (enhancing TP removal via chemical precipitation).

The 5-Year TP treatment (removal) efficiency averaged approximately 92.4%. However, the TP treatment (removal) efficiency has averaged 97.5% since the optimization of the IFAS BNR Treatment System has been completed (alum/polymer addition). ***Thus, the South Central Regional WRF is providing highly efficient treatment and removal of TP.***

This page intentionally left blank

SECTION 4

NON-BENEFICIAL SURFACE WATER DISCHARGE ELIMINATION PLAN

4.1 THE SOUTH CENTRAL REGIONAL WRF DISCHARGE ELIMINATION PLAN

The South Central Regional WRF, located at 10001 North Wickham Road, Melbourne, FL, 32940 is an *Advanced Wastewater Treatment plus Filtration* Facility (Category I, Class A), utilizing two (2) parallel BNR wastewater treatment plants to treat the raw wastewater from the service area and meets all Class I Reliability criteria. The facility consists of primary, secondary and tertiary treatment systems to treat the raw wastewater from the South Central Regional Wastewater Collection and Transmission System. Reclaimed water storage is found throughout the service area (115.9 MG, total) including ground storage tanks, reclaimed water storage ponds adjacent to the SCRWRF, stormwater ponds, golf course stormwater lake systems, and the Ritch Grissom Memorial Wetlands.

Biosolids management at the SCRWRF consists of aerobic digestion of the waste activated sludge followed by dewatering of the solids through the use of a system of belt filter presses. The dewatered sludge can be transferred to an FDEP approved Biosolids Treatment Facility (BTF) or disposed of in a Class I solid waste landfill.

The treatment facility discharges highly treated reclaimed water to three FDEP-permitted disposal systems:

- Public Access Reuse System, R-001 (8.20 MGD AADF)
- Ritch Grissom Memorial Wetlands - Restricted Public Access Reuse System, R-002 (2.50 MGD AADF)
- Surface Water Discharge System, from the Wetlands Lake to the 4-Mile Canal then to the St. Johns River, D-001 (0.99 MGD AADF)

As previously presented in Section 3.5 of this document, an analysis of facility effluent flows by disposal system, over the last five (5) Calendar Years, was conducted with the following results:

Calendar Year	Effluent Disposal System Flow (MGD AADF)			Overall Effluent Disposal (%)		
	Reclaimed Water System - PAR (R-001)	Reclaimed Water to Wetland (R-002)	Surface Water Discharge (D-001)	Reclaimed System (R-001)	Reclaimed System (R-002)	SW Discharge (D-001)
2016	3.576	0.377	0.139	87.4%	9.2%	3.4%
2017	3.107	0.584	0.319	77.5%	14.6%	8.0%
2018	3.625	0.169	0.128	92.4%	4.3%	3.3%
2019	3.920	0.046	0.000	98.8%	1.2%	0.0%
2020	3.646	0.149	0.085	94.0%	3.8%	2.2%
5-Yr Avg.	3.575	0.265	0.134	90.0%	6.6%	3.4%
Overall 5-Year SCRWRF Effluent Disposal by System:				Reclaimed Water (R-001 + R-002)		Surface Water Discharge (D-001)
				96.6%		3.4%

The data indicates that the South Central Regional WRF has reused approximately 96.6% of the facility's annual average effluent flow over the past five-year period (2016 - 2020). The remaining 3.4% of the effluent flow, over this five-year period, were surface water discharges from the Ritch Grissom Memorial Wetlands to the 4-Mile Canal. The surface water discharges were due to intense rainfall events associated with Hurricane Matthew, Hurricane Irma and severe localized thunderstorms within the SCRWRF service area. The annual surface water discharge, from January 2016 - December 2020, averaged 0.134 MGD and occurred in only 9 months during this period (170 discharge days in the 5-year period total of 1,827 days, or 9.3% of the time due to heavy rainfall events).

Therefore, in accordance with the requirements of the 403.064(17)(a)(3)(d), Florida Statutes, the Surface Water Discharge Elimination Plan for the South Central Regional WRF does not provide for a complete elimination of the FDEP-permitted surface water discharge to the 4-Mile Canal and thence to the St. Johns River. However, Brevard County is providing the FDEP with an affirmation demonstration (as provided for in the law), based on the analyses and evaluations conducted in Section 3 of this document, that the SCRWRF is reusing a minimum of 90% of its annual average effluent flow as determined using the daily monitoring data from the previous five (5) Calendar Years (2016 - 2020) of operating data. In accordance with the regulatory requirements of 403.064, F.S., the County will therefore continue to utilize the FDEP-permitted discharge from the Ritch Grissom Memorial Wetlands to 4-Mile Canal and will not exceed the 0.990 MGD AADF flow limitation. It is anticipated that as growth occurs within the South Central Regional Wastewater Management System Service Area, new reclaimed water sites and additional storage will be developed thereby reducing the need to discharge to the 4-Mile Canal, with the exception of wet weather discharges during extreme weather and high groundwater table events.

In accordance with 403.064(17), Florida Statutes, Brevard County is also required to provide the following information as part of the Surface Water Discharge Elimination Plan:

Plan Information to Be Provided	Value	Explanation
The average flow (MGD) of effluent, reclaimed water, or reuse water that will no longer be discharged into surface waters and the date of such elimination	0.0 MGD AADF	Facility reuses more than 90% of its annual effluent flow based on the last 5 calendar years of operational data
The average flow (MGD) of surface water discharge that will continue in accordance with the requirements for the elimination of ocean outfalls, one of the discharge conditions specified in the legislation or one of the hardship conditions;	0.99 MGD AADF (maximum)	This is the permitted surface water discharge capacity in the current facility FDEP Operations Permit. In addition, over the last 5 calendar years, the surface water discharge averaged 0.134 MGD (13.5% of permitted capacity)
The level of treatment which the effluent, reclaimed water, or reuse water will receive before being discharged into a surface water by each alternative	AWT Levels* (5, 5, 3, 1)	The SCRWRF consists of two BNR treatment trains capable of potentially generating reclaimed water meeting AWT standards/levels

* Modifications to the IFAS and Carrousel BNR Treatment Systems will be required to meet AWT Standards ($BOD_5 < 5$ mg/L; $TSS < 5$ mg/L; $TN < 3$ mg/L; and $TP < 1$ mg/L). This is further discussed in Section 4.3 of this document.

4.2 CAPACITY AND EFFICIENCY OF THE SOUTH CENTRAL REGIONAL WRF

A detailed evaluation of the historical wastewater flows to the South Central Regional WRF was conducted in Section 3.4 of this document. The raw wastewater flow rate received at the treatment facility, over the last five (5) Calendar Years (2016 - 2020), averaged 4.828 MGD, or 40.2% of the facility's treatment capacity. Therefore, the South Central Regional WRF has the hydraulic capacity to treat the raw wastewater flows over the 20-year planning horizon.

Likewise, a detailed evaluation of the facility effluent quality, over the last five (5) Calendar Years (2016 - 2020), was conducted in Section 3.6 of this document. The reclaimed water quality produced and treatment efficiencies are as follows:

South Central Regional WRF - Treatment System Efficiency (2016 - 2020)			
Parameter	Influent Conc. (mg/L)	Effluent Conc. (mg/L)	Parameter Removal
$CBOD_5$	191	2.2	98.8%
TSS	231	1.0	99.6%
TN	50	6.4	87.2%
TP	8	0.6	92.4%

Therefore, the South Central Regional WRF is capable of treating the incoming raw wastewater and generating a reclaimed water product that is in compliance with the current FDEP Operations Permit using the existing unit operations and processes at the facility.

4.3 ABILITY OF THE SOUTH CENTRAL REGIONAL WRF TO MEET “CURRENT” AND “FUTURE” NUTRIENT LIMITS

The wastewater treatment processes at the South Central Regional WRF consist of primary treatment unit operations and two distinct treatment trains each with their own secondary and tertiary treatment unit operations and processes to remove contaminants inherent in the raw wastewater influent and meet the Federal and State regulatory standards.

The reclaimed water quality produced by the South Central Regional WRF during the last five-year period (2016 - 2020) and the ability to meet AWT Criteria is presented below:

Parameter	AWT Effluent Limits (mg/L)	Effluent Concentration (mg/L)*	“Current” Facility Effluent Meets AWT Criteria
BOD ₅	5	2.2	Yes
TSS	5	1.0	Yes
Total Nitrogen (TN)	3	6.4	No
Total Phosphorus (TP)	1	0.6	Yes
pH	6.0 - 8.5	7.26	Yes

* Concentrations of reclaimed water constituents from Jan 2016 - Dec 2020

** Values in “red” exceed the AWT Criteria

To meet the surface water discharge requirements, on a continual basis, when water is conveyed from the Wetlands lake to the 4-Mile Canal, it is imperative that the reclaimed water/effluent from the treatment facility meet AWT standards. The effluent TN concentration is the only effluent parameter that is not currently meeting AWT standards. However, the two distinct BNR treatment systems produce differing effluent TN concentrations as shown in the table below:

BNR System	Effluent Analysis Timeframe	Effluent Nutrient Concentrations (mg/L)***	
		TN*	TP**
Carrousel	January 2016 - April 2019	7.9	0.8
IFAS	May 2019 - December 2020	3.7	0.2

* AWT Total Nitrogen Standard: ≤ 3 mg/L

** AWT Total Phosphorus Standard: ≤ 1 mg/L

*** Values in “red” exceed the AWT Std

Therefore, to meet the AWT TN Standard, on a consistent basis, and ensure that the treatment facility meets the effluent TN limitations mandated in its FDEP Operations Permit, improvements, modifications and adjustments within the two BNR Systems will be required at the South Central Regional WRF as outlined below:

BNR Treatment System	Required Improvements to Meet the AWT TN Standard
IFAS	Minor operational modifications and control strategy adjustments
Carrousel	Significant operational, process and infrastructure improvements will be required*

* See Section 3.6.3 of this document for further discussion of this topic.

The required facility improvements to the BNR Treatment Systems at the South Central Regional WRF, to consistently meet the AWT TN Standard, will be included in the County's Utility Capital Improvements Program (CIP). As this is not a currently funded CIP project, the County will evaluate their utility capital resources during upcoming annual budget cycle meetings and include this project in its list of potential prioritized utility projects.

This page intentionally left blank

APPENDIX A

SOUTH CENTRAL REGIONAL WRF: “EXISTING” FDEP OPERATIONS PERMIT



OCTOBER 2021

This page intentionally left blank



FLORIDA DEPARTMENT OF Environmental Protection

Central District Office
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Interim Secretary

In the Matter of an
Application for Permit by:

Edward Fontanin, PE, Director
Brevard County Utility Services
2725 Judge Fran Jamieson Way, A-213
Melbourne, FL 32940-6605
Edward.fontanin@brevardfl.gov

File Number FL0102679-018-DW1P
Brevard County
BCUD South Central WWTF

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0102679 to operate the BCUD South Central Wastewater Facility (WWTF), issued under Chapter 403, Florida Statutes.

Monitoring requirements under this permit are effective on September 1, 2021.

Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes

- during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
 - (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
 - (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
 - (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
 - (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a), F.A.C.

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver may not apply to persons who have not received a clear point-of-entry.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for

an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

EXECUTION AND CLERKING

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Reggie Phillips
Program Administrator
Permitting and Waste Cleanup Program

Attachment(s):

Permit, DMR, and Statement of Basis

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

DEP: David Smicherko, Cindy Stafford, Charles LeGros
David A. Gierach, PE, CPH, dgierach@cphcorp.com
Benjamin M. Fries, PE, Vice President, CPH, bfries@cphcorp.com

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

July 12, 2021
Date



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Interim Secretary

Central District Office
3319 Maguire Blvd, Suite 232
Orlando, Florida 32803-3767

STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:
Brevard County Utility Services Department

RESPONSIBLE OFFICIAL:
Edward Fontanin
2725 Judge Fran Jamieson Way
BLDG. A-213
Melbourne, Florida 32940-6605
(321) 633-2091
edward.fontanin@brevardfl.gov

PERMIT NUMBER: FL0102679 MI
FILE NUMBER: FL0102679-018-DW1P
ISSUANCE DATE: July 12, 2021
EFFECTIVE DATE: July 12, 2021
EXPIRATION DATE: July 11, 2026

FACILITY:
BCUD/South Central Regional
10001 N Wickham Rd
Melbourne, FL 32940-6604
Brevard County
Latitude: 28°13' 44.98" N Longitude: 80°45' 26.37" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.) and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above-named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

WASTEWATER TREATMENT:

An existing 12.0 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity activated sludge advanced wastewater treatment (AWT) plant utilizing the IFAS BNR and Carrousel BNR Treatment Process. The plant consists of a mechanical bar screen and de-gritter assembly, 5-stage IFAS BNR and 4-stage Carrousel BNR Process (anaerobic tanks, first anoxic tanks, extended oxidation ditches, second anoxic tanks, re-aeration tanks), clarifiers, chemical feed facilities, filters and chlorination, with aerobic digestion and belt-thickening of biosolids. The facility utilizes electronic sensors and automatic diversion valves, two (2) 1.0 million gallon on-site reclaimed water covered ground storage tanks and associated high service pump stations, and a standby power generator.

The facility includes a Septage and Grease receiving station with flow metering, mechanical screening, and a holding tank with a submersible mixer.

The facility may supplement the reclaimed water production with storm water introduced into the collection system of the facility.

REUSE OR DISPOSAL:

Surface Water Discharge D-001: An existing 0.990 MGD annual average daily flow discharge to 4-Mile Canal, Class III Fresh Waters, (WBID# 2893N) which is approximately 128 feet in length and discharges at a depth of approximately 0 feet. The outfall pipe is a 60" diameter concrete culvert that discharges to the 4-Mile Canal. The point of discharge is located approximately at latitude 28°13' 48" N, longitude 80°46' 14" W.

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

Land Application R-001: An existing 8.2 MGD annual average daily flow permitted capacity slow-rate public access system. R-001 is a reuse system which consists of on-site irrigation at the plant, and within the approved Reuse Service Area, as shown on the attached map, and identified in Section IV of this permit

Reclaimed water is discharged into stormwater storage lake system(s) D-002 located at the Indian River Colony Club Golf Course. The reclaimed water is stored in an existing stormwater retention pond with a storage capacity of 4.5 million gallons, which has an intermittent discharge to adjacent drainage features (6-Mile Canal), which ultimately discharges to the St. Johns River. Discharge of reclaimed water to this stormwater retention pond shall be in accordance with Condition I.B. 12 of this permit.

Stormwater from the following sources may be introduced into the sanitary sewerage system to augment the supply of reclaimed water: The facility may introduce storm water from a retention pond into the collection system at the wet well of Lift Station W-09 (Silver Pines Subdivision).

Land Application R-002: An existing 2.5 MGD annual average daily flow permitted capacity slow-rate restricted public access system. R-002 is a reuse system which consists of Created Wetlands with 200± acres (163± total wetted acres) comprising four (4) cells and an interior lake. The detention time through this created wetland system is approximately 53 days, and is located approximately at latitude 28°13' 47" N, longitude 80°46' 18" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements, and other conditions set forth in this cover sheet and Part I through Part IX on pages 1 through 29 of this permit.

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

- During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D-001 to 4-Mile Canal. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.8.:

Parameter	Units	Max. /Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow (Outfall D-001)	MGD	Max Max Max	0.990 Report	Annual Average Daily Maximum Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-9	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	3.0 3.75 4.5 6.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	WEP-1	See I.A.6
BOD, Carbonaceous 5 day, 20C	lb/yr	Max	2000	Single Sample	Annually	Calculated	WEP-1	See Note 1
BOD, Carbonaceous 5 day, 20C	lb/mth	Max	Report	Monthly Total	Monthly	Calculated	WEP-1	
Solids, Total Suspended	mg/L	Max Max Max Max	3.0 3.75 4.5 6.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	Grab	WEP-1	See I.A.6
Coliform, Fecal	#/100mL	Max	Report	Weekly Average	5 Days/Week	Grab	WEP-1	
pH	s.u.	Min Max	6.5 8.0	Single Sample Single Sample	Continuous	Meter	WEP-1	See I.A.3
Nitrogen, Total	mg/L	Max Max Max	2.0 2.4 3.2	Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	WEP-1	
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Monthly Average	Weekly	24-hr FPC	WEP-1	
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Monthly Average	Weekly	24-hr FPC	WEP-1	
Nitrogen, Ammonia, Total (as N) (Effluent)	mg/L	Max	Report	Monthly Average	Weekly	24-hr FPC	WEP-1	See I.A.8, I.A.9, and I.A.10
Nitrogen, Ammonia, Total (as N) (calculated limit)	mg/L	Max	Report	Monthly Average	Weekly	Calculated	WEP-1	See I.A.8, I.A.9, and I.A.10
Nitrogen, Ammonia, Total (as N) (Effluent minus calculated limit)	mg/L	Max	0.00	Monthly Average	Weekly	Calculated	WEP-1	See I.A.8, I.A.9, and I.A.10

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

Parameter	Units	Max. /Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Nitrogen, Ammonia, Total (as N) (Effluent)	mg/L	Max	2.5	Single Sample	Monthly	Calculated	WEP-1	See I.A.8, I.A.9, and I.A.10
Phosphorus, Total (as P)	mg/L	Max Max Max	0.2 0.24 0.32	Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	WEP-1	
Phosphorus, Total (as P)	lb/yr	Max	46	Single Sample	Annually	Calculated	WEP-1	See Note 1 ok
Phosphorus, Total (as P)	lb/mth	Max	Report	Monthly Total	Monthly	Calculated	WEP-1	
Phosphate, Ortho (as P)	mg/L	Max	Report	Monthly Average	Weekly	24-hr FPC	WEP-1	
Sulfate, Total	mg/L	Max	Report	Monthly Average	Weekly	24-hr FPC	WEP-1	
Chloride (as Cl)	mg/L	Max	Report	Monthly Average	Weekly	24-hr FPC	WEP-1	
Alkalinity, Total (as CaCO ₃)	mg/L	Max	Report	Monthly Average	Weekly	24-hr FPC	WEP-1	
Specific Conductance	umhos/cm	Max	Report	Monthly Average	Weekly	Grab	WEP-1	
Temperature (C), Water	Deg C	Max	Report	Monthly Average	Monthly	Meter	WEP-1	
Oxygen, dissolved (DO)	mg/L	Max	Report	Monthly Average	Monthly	Grab	WEP-1	
Water Level at sample collection time	ft	Max	Report	Monthly Average	Monthly	Meter	WEP-1	

Note 1: The Total Maximum Daily Load (TMDL) for the St. John's River has been finalized by the Department. As stated in the TMDL documentation, "The TMDL includes a waste load allocation (WLA) of 1.0 ton BOD/year and 0.023 tons/year for Total Phosphorus (TP). The discharge shall not exceed the following limitations:

<u>Parameter</u>	<u>Maximum Mass Loading (pounds/year)</u>
CBOD ₅	2000.0
Total Phosphorus	46.0

- Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-9	Flow to St. Johns River
WEP-1	Outfall structure 9 from wetland cell #3 and cell #4

- Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. [62-600.660(1)]
- A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

5. The discharge shall not contain components that, alone or in combination with other substances or in combination with other components of the discharge:
 - a. Settle to form putrescent deposits or otherwise create a nuisance; or
 - b. Float as debris, scum, oil, or other matter in such amounts as to form nuisances; or
 - c. Produce color, odor, taste, turbidity, or other conditions in such degree as to create a nuisance; or
 - d. Are acutely toxic; or
 - e. Are present in concentrations which are carcinogenic, mutagenic, or teratogenic to human beings or to significant, locally occurring, wildlife or aquatic species, unless specific standards are established for such components in subsection 62-302.500(2) or Rule 62-302.530, F.A.C.; or
 - f. Pose a serious danger to the public health, safety, or welfare.

[62-302.500(1)(a)]

6. In accordance with subsections 62-600.420(1) and (2), F.A.C., the monthly average effluent CBOD₅ and TSS concentrations shall not exceed 15% of their respective influent values (i.e., 85% removal). [62-600.420(1) and (2)]
7. Sampling of surface water quality in the 4-Mile Canal and the wetlands interior lake shall be conducted at the sites shown on the attached map for the parameters listed in the Table below. An annual summary report of all surface water sampling/monitoring data shall be submitted to the Department by January 1st of each year. [62-611.700]

Parameter	Interior Station 2 Frequency	Downstream Station 4 Frequency
Temperature	Q (DD)	---
Dissolved Oxygen	Q (DD)	Q
pH	Q	Q
CL ₂ (TRC)	---	---
Conductivity	Q	Q
Color	Q	---
CBOD ₅	Q	---
TSS	Q	---
TP (as P)	Q	Q
OP (as P)	Q	---
TN	Q	Q
TKN (as N)	Q	---
NH ₃ (as N)	Q	---
NO ₃ (as N)	Q	---
NO ₂ (as N)	Q	---
SO ₄ (as S)	Q	---
Fecal Coliforms	Q	---
Chlorophyll a	Q	---
M = Monthly DD = 48 hr. dawn-dusk, max of 4 hr. intervals Q = Quarterly (Sample type shall be in accordance with Condition I.A.1.)		
A = Annually SA = Semi-Annually		

8. Effluent shall be monitored for pH and temperature at the same time and location as total ammonia nitrogen (TAN). The monthly average TAN value shall not exceed the average of the values calculated from the following equation, with no single value exceeding 2.5 times the value from the equation:

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

$$\text{Calculated TAN Criterion Value for a Collected Sample} = 0.8876((0.0278/1+10^{7.688-\text{pH}})+(1.1994/1+10^{\text{pH}-7.688})) \times (2.126 \times 10^{0.028(20-T)})$$

Where:

- T and pH are the paired temperature (in degrees Celsius) and pH associated with the effluent TAN sample, i.e., measured at the same time and location as the effluent TAN sample is collected.
- For purposes of TAN criterion calculations, pH is subject to the range of 6.5 to 9.0. In the TAN criterion equation, the pH shall be set to 6.5 if the measured pH is less than 6.5 and set to 9.0 if the measured pH is greater than 9.0.
- The value of T shall be set to 7 if the measured temperature is less than 7°C.

For convenience, a calculator that may be used to determine monthly average and single sample TAN criterion values is located at: <https://floridadep.gov/dear/water-quality-standards-program/documents/total-ammonia-nitrogen-calculator%C2%A0>

- a. Determine compliance with the monthly average TAN criterion as follows:
 - (1) Calculate the TAN criterion value using pH and temperature measurements associated with each total ammonia sample. Then calculate the average of the resulting TAN criterion values (i.e. add together all the values calculated with the equation and divide by the total number of samples).
 - (2) Calculate the average of all effluent total ammonia concentrations measured.
 - (3) Effluent is in compliance if the average effluent total ammonia concentration is less than or equal to the calculated average TAN criterion.
- b. Determine compliance with the single sample maximum TAN criterion as follows:
 - (1) Calculate the TAN criterion value using pH and temperature measurements associated with each total ammonia sample. Multiply each resulting TAN criterion value by 2.5.
 - (2) Effluent is in compliance with the single sample TAN criterion if all effluent total ammonia concentrations are less than or equal to 2.5 times their corresponding calculated TAN criterion.

[62-302.530]

9. The total ammonia nitrogen (TAN) monthly average effluent value shall be recorded on the DMR in the parameter row for "(effluent)." The calculated effluent limit shall be recorded on the DMR in the parameter row for "(calculated limit)." Compliance with the effluent limitation is determined by calculating the difference between the measured effluent value and the calculated. The compliance value shall be recorded on the DMR in the parameter row for "(effluent minus calculated limit)." The compliance value shall not exceed 0.00. [62-302.530]
10. To determine compliance with the total ammonia nitrogen (TAN) single sample effluent limitation, divide each TAN effluent sample value by the calculated TAN criterion value for that sample (calculated using the equation in permit condition I.A.8.) and compare to 2.5. On the DMR, report the greatest ratio of effluent sample value to TAN criterion value calculated for that sample. The compliance value shall not exceed 2.5. [62-302.530]
11. Senate Bill (SB) 64 was signed on June 29, 2021, and may affect the discharge related to this facility. The SB includes a requirement to submit information relating to the discharge with (1) your plan to eliminate the discharge or (2) your documentation demonstrating that no plan is required via email to DEP's Wastewater Management Program at: NPDESDischargePlan2021@FloridaDEP.gov to the Department by November 1, 2021. [SB 64] A link to the bill can be found at: <https://www.flsenate.gov/Session/Bill/2021/64>

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

B. Reuse and Land Application Systems

- During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to supplement reclaimed water with Stormwater discharged into the sewerage system and direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.8.:

Parameter	Units	Max. /Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow (Public access reuse)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-10	See I.B.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/ Week	24-hr FPC	EFA-1	
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/ Week	24-hr FPC	EFA-2	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	4 Days/ Week	Grab	EFB-1	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	4 Days/ Week	Grab	EFB-2	
Coliform, Fecal	#/100mL	Max	25	Single Sample	4 Days/ Week	Grab	EFA-1	
Coliform, Fecal	#/100mL	Max	25	Single Sample	4 Days/ Week	Grab	EFA-2	
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	4 Days/ Week	Calculated	EFA-1	See I.B.5
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	4 Days/ Week	Calculated	EFA-2	See I.B.5
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-1	See I.B.3
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-2	See I.B.3
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-1	See I.B.6 and I.B.9
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-2	See I.B.6 and I.B.9
Turbidity	NTU	Max	Report	Single Sample	Continuous	Meter	EFB-1	See I.B.7 and I.B.9
Turbidity	NTU	Max	Report	Single Sample	Continuous	Meter	EFB-2	See I.B.7 and I.B.9
Giardia	cysts/100 L	Max	Report	Single Sample	Bi- annually; every 2 years	Grab	EFA-1	See I.B.10

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

Parameter	Units	Max. /Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Giardia	cysts/100 L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA-2	See I.B.10
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA-1	See I.B.10
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA-2	See I.B.10
Nitrogen, Total	mg/L	Max Max	10.0 Report	Annual Average Monthly Average	Weekly	24-hr FPC	EFA-1	See I.B.12
Nitrogen, Total	mg/L	Max Max	10.0 Report	Annual Average Monthly Average	Weekly	24-hr FPC	EFA-2	See I.B.12
Phosphorus, Total (as P)	mg/L	Max Max	6.0 Report	Annual Average Monthly Average	Weekly	24-hr FPC	EFA-1	See I.B.12
Phosphorus, Total (as P)	mg/L	Max Max	6.0 Report	Annual Average Monthly Average	Weekly	24-hr FPC	EFA-2	See I.B.12
Flow (Baytree Golf Course Pond)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-5	
Flow (Viera Golf Course Pond)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-6	
Flow (Indian River Colony Club)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-7	
Flow (Duran Golf Course)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-8	

2. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I.B.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-10	Total flow to Reuse Service Area
EFA-1	Effluent from the Carousel Process CCC
EFA-2	Final effluent from the IFAs Process CCC
EFB-1	After filtration, prior to chlorination in the Carousel Process
EFB-2	After filtration, prior to chlorination in the IFAS Process
FLW-5	Flow Meter in line to Baytree Golf Course Storage Pond
FLW-6	Flow meter in line to Viera Golf Course Storage Pond
FLW-7	Sum of the flow meters associated with Indian River Colony Golf Course Storage Pond and residential irrigation
FLW-8	Flow to Duran Golf Course

3. Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. [62-600.660(1)]

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
5. To report the "% less than detection," count the number of fecal coliform observations that were less than detection, divide by the total number of fecal coliform observations in the month, and multiply by 100% (round to the nearest integer). [62-600.440(6)(a)]
6. The minimum total chlorine residual shall be limited as described in the approved operating protocol, such that the permit limitation for fecal coliform bacteria will be achieved. In no case shall the total chlorine residual be less than 1.0 mg/L. [62-600.440(6)(b)][62-610.460(2)][62-610.463(2)]
7. The maximum turbidity shall be limited as described in the approved operating protocol, such that the permit limitations for total suspended solids and fecal coliforms will be achieved. [62-610.463(2)]
8. The treatment facilities shall be operated in accordance with all approved operating protocols. Only reclaimed water that meets the criteria established in the approved operating protocol(s) may be released to system storage or to the reuse system. Reclaimed water that fails to meet the criteria in the approved operating protocol(s) shall be directed to the following permitted alternate discharge system: Reject pond for re-treatment or to R-002, Created Wetland system. [62-610.320(6) and 62-610.463(2)]
9. Instruments for continuous on-line monitoring of total residual chlorine and turbidity shall be equipped with an automated data logging or recording device. [62-610.463(2)]
10. Intervals between sampling for Giardia and Cryptosporidium shall not exceed two years. [62-610.472(3)(d)]
11. Discharge of reclaimed water to the lakes listed in the table below at Golf Course/Stormwater Outfall stormwater storage lake system D-002 shall only occur when the elevation of the water in each lake is less than the corresponding control elevation listed in the table below. A list of all days during a month on which discharges from each lake to the receiving water body occurred shall be attached to the DMR form. For each day on which discharge occurred, the approximate number of hours of discharge shall be noted. [62-610.830(1) and (4)]

Monitoring Site Number	Name of Storage Lake/Description of Monitoring Location	Control Elevation (ft. M.S.L.)	Receiving Water Body
STM-1	Golf Course/Stormwater Outfall	24.5	St. Johns River

12. The Department adopted a Basin Management Action Plan (BMAP) for the Indian River North BMAP on February 17, 2021. This permit has been revised to include an annual average limit of 10.0 mg/l of Total Nitrogen and 6.0 mg/l of Total Phosphorus in the reclaimed water. [FDEP Final Order 21-0082]
13. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-002. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.8.:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max. /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (wetlands from WRF)	MGD	Max Max	2.5 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-11	See I.B.16

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max. /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFA-1	
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFA-2	
Solids, Total Suspended	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFA-1	
Solids, Total Suspended	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Single Sample Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFA-2	
Coliform, Fecal	#/100mL	Max Max Max	200 200 800	Annual Average Monthly Geometric Mean Single Sample	5 Days/Week	Grab	EFA-1	See I.B.17
Coliform, Fecal	#/100mL	Max Max Max	200 200 800	Annual Average Monthly Geometric Mean Single Sample	5 Days/Week	Grab	EFA-2	See I.B.17
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-1	See I.B.15
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-2	See I.B.15
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	Continuous	Meter	EFA-1	See I.B.18 and I.B.15
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	Continuous	Meter	EFA-2	See I.B.18 and I.B.15
Nitrogen, Total	mg/L	Max Max Max Max	6.0 7.5 9.0 12.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-1	
Nitrogen, Total	mg/L	Max Max Max Max	6.0 7.5 9.0 12.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-2	
Phosphorus, Total (as P)	mg/L	Max Max Max Max	0.75 0.94 1.125 1.5	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-1	
Phosphorus, Total (as P)	mg/L	Max Max Max Max	0.75 0.94 1.125 1.5	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-2	
Flow (from storage ponds to wetlands)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-12	See IV.A.4

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max. /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (from wetlands to storage ponds)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-13	See IV.A.4

14. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I.B.13. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-11	Total flow to wetlands
EFA-1	Effluent from the Caroussel Process CCC
EFA-2	Final effluent from the IFAs Process CCC
FLW-12	Total flow from storage ponds to wetlands
FLW-13	Total flow from wetlands to storage ponds

15. Hourly measurement of pH and total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. [62-600.660(1)]
16. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
17. The effluent limitation for the monthly geometric mean for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly geometric mean shall be calculated and reported on the Discharge Monitoring Report to be used to calculate the annual average. All other fecal coliform effluent limitations included in permit condition I.B.13 apply regardless of the number of values reported. [62-600.440(5)(b)]
18. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-610.410][62-600.440(5)(c) and (6)(b)]

C. Other Limitations and Monitoring and Reporting Requirements

1. During the period beginning on the effective date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.C.8.:

			Limitations		Monitoring Requirements			
Parameter	Units	Max. /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Total Through Plant)	MGD	Max Max Max	12.0 Report Report	Annual Average 3-Month Rolling Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-1	See I.C.4
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	CAL-1	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	5 Days/Week	24-hr FPC	INF-1	See I.C.3

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

Parameter	Units	Max. /Min	Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	5 Days/Week	24-hr FPC	INF-1	See I.C.3
Rainfall	in	Max	Report	Single Sample	Daily; 24 hours	Meter	OTH-1	

2. Samples shall be taken at the monitoring site locations listed in Permit Condition I.C.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-1	Total flow through plant
CAL-1	Calculated from FLW-1
INF-1	Influent to headworks mechanical bar screen
OTH-1	Rain Gauge

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-600.660(4)(a)]
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
5. Sampling results for giardia and cryptosporidium shall be reported on DEP Form 62-610.300(4)(a)4, Pathogen Monitoring, which is attached to this permit. This form shall be submitted to the Department's Central District Office and to DEP's Wastewater Management Program in Tallahassee. [62-610.300(4)(a)]
6. The sample collection, analytical test methods, and method detection limits (MDLs) applicable to this permit shall be conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-600, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled "FAC 62-4 MDL/PQL Table (November 10, 2020)" is available at <https://floridadep.gov/dear/quality-assurance/content/quality-assurance-resources>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
- The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
 - The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
 - If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantitation limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. [62-4.246, 62-160]

7. The permittee shall provide safe access points for obtaining representative samples which are required by this permit. [62-600.650(2)]
8. **Monitoring requirements under this permit are effective on September 1, 2021.** Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

REPORT Type on DMR	Monitoring Period	Submit by
Monthly	first day of month - last day of month	28 th day of following month
Once Every Two Months	January 1 - February 28/29 March 1 - April 30 May 1 - June 30 July 1 - August 31 September 1 - October 31 November 1 - December 31	March 28 May 28 July 28 September 28 November 28 January 28
Quarterly	January 1 - March 31 April 1 - June 30 July 1 - September 30 October 1 - December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 31	July 28 January 28
Annual	January 1 - December 31	January 28

The permittee shall use the electronic DMR system approved by the Department (EzDMR) and shall electronically submit the completed DMR forms using the DEP Business Portal at <https://www.fldepportal.com/go/>, unless the permittee has a waiver from the Department in accordance with 40 CFR 127.15. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation.

[62-620.610(18)][62-600.680(1)]

9. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for asbestos, total coliform, color, odor, and residual disinfectants). These monitoring results shall be reported to the Department annually on the DMR. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted with the signed DMR in lieu of performing the analysis. When such a certification is submitted with the DMR, monitoring not required this period should be noted on the DMR. The annual reclaimed water or effluent analysis report, and certification if applicable, shall be completed and submitted in a timely manner so as to be received by the Department at the address identified on the DMR by January 28 of each year. Approved analytical methods identified in Rule 62-620.100(3)(j), F.A.C., shall be used for the analysis. If no method is included for a parameter, methods specified in Chapter 62-550, F.A.C., shall be used. [62-600.660(2) and (3)(d)][62-600.680(2)][62-610.300(4)]
10. The permittee shall submit an Annual Reuse Report using DEP Form 62-610.300(4)(a)2. on or before January 1 of each year. [62-610.870(3)]

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

11. Operating protocol(s) shall be reviewed and updated periodically to ensure continuous compliance with the minimum treatment and disinfection requirements. Updated operating protocols shall be submitted to the Department's Central District Office for review and approval upon revision of the operating protocol(s) and with each permit application. [62-610.320(6)][62-610.463(2)]
12. The permittee shall maintain an inventory of storage systems. The inventory shall be submitted to the Department's Central District Office at least 30 days before reclaimed water will be introduced into any new storage system. The inventory of storage systems shall be attached to the annual submittal of the Annual Reuse Report. [62-610.464(5)]
13. Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Central District Office at the address specified below:

Electronic submittal is preferred, by sending to DEP_CD@dep.state.fl.us.

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

Phone Number - (407) 897-4100

[62-620.305]

14. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. [62-620.305]

II. BIOSOLIDS MANAGEMENT REQUIREMENTS

A. Basic Requirements

1. Biosolids generated by this facility may be transferred to DEP approved Biosolids Treatment Facility or disposed of in a Class I solid waste landfill. Transferring biosolids to an alternative biosolids treatment facility does not require a permit modification. However, use of an alternative biosolids treatment facility requires submittal of a copy of the agreement pursuant to Rule 62-640.880(1)(c), F.A.C., along with a written notification to the Department at least 30 days before transport of the biosolids. [62-620.320(6), 62-640.880(1)]
2. The permittee shall monitor and keep records of the quantities of biosolids generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled. These records shall be kept for a minimum of five years. [62-640.650(4)(a)]
3. Biosolids quantities shall be monitored by the permittee as specified below. Results shall be reported on the permittee's Discharge Monitoring Report for Monitoring Group RMP-Q in accordance with Condition I.C.8.

			Biosolids Limitation		Monitoring Requirements			
Parameter	Units	Max. /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1	
Biosolids Quantity (Received)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1	

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

			Biosolids Limitation		Monitoring Requirements			
Parameter	Units	Max. /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1	

[62-640.650(5)(a)1]

- Biosolids quantities shall be calculated as listed in Permit Condition II.3 and as described below:

Monitoring Site Number	Description of Monitoring Site Calculations
RMP-1	Biosolids leaving the facility based on estimated percent solids and volume or actual truck weight. Calculated and reported in dry tons.

- The treatment, management, transportation, use, land application, or disposal of biosolids shall not cause a violation of the odor prohibition in subsection 62-296.320(2), F.A.C. [62-640.400(6)]
- Storage of biosolids or other solids at this facility shall be in accordance with the Facility Biosolids Storage Plan. [62-640.300(4)]
- Biosolids shall not be spilled from or tracked off the treatment facility site by the hauling vehicle. [62-640.400(9)]

B. Disposal

- Disposal of biosolids, septage, and "other solids" in a solid waste disposal facility, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. [62-640.100(6)(b) & (c)]

C. Transfer

- The permittee shall not be held responsible for treatment and management violations that occur after its biosolids have been accepted by a permitted biosolids treatment facility with which the source facility has an agreement in accordance with subsection 62-640.880(1)(c), F.A.C., for further treatment, management, or disposal. [62-640.880(1)(b)]
- The permittee shall keep hauling records to track the transport of biosolids between the facilities. The hauling records shall contain the following information:

Source Facility	Biosolids Treatment Facility or Treatment Facility
1. Date and time shipped	1. Date and time received
2. Amount of biosolids shipped	2. Amount of biosolids received
3. Degree of treatment (if applicable)	3. Name and ID number of source facility
4. Name and ID Number of treatment facility	4. Signature of hauler
5. Signature of responsible party at source facility	5. Signature of responsible party at treatment facility
6. Signature of hauler and name of hauling firm	

A copy of the source facility hauling records for each shipment shall be provided upon delivery of the biosolids to the biosolids treatment facility or treatment facility. The treatment facility permittee shall report to the Department within 24 hours of discovery any discrepancy in the quantity of biosolids leaving the source facility and arriving at the biosolids treatment facility or treatment facility.

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

[62-640.880(4)]

D. Receipt

1. The permittee shall be responsible for proper treatment, management, and disposition of biosolids accepted from source facilities. *[62-640.880(1)(a)]*
2. The permittee shall enter into a written agreement with each source facility that it intends to receive biosolids from. The agreement shall address the quality and quantity of the biosolids accepted by the permittee. The agreement shall include a statement, signed by the permittee, as to the availability of sufficient permitted capacity to receive the biosolids from the source facility, and indicating that the permittee will continue to operate in compliance with the requirements of its permit. The agreement shall also address responsibility during transport of biosolids between the facilities. The permittee shall submit a copy of this agreement to the Department's Central District Office at least 30 days before transporting biosolids from the source facility to the permittee. *[62-640.880(1)(c)]*

III. GROUND WATER REQUIREMENTS

A. Construction Requirements

1. The permittee shall give at least 72-hour notice to the Department's Central District Office, prior to the installation of any monitoring wells. *[62-520.600(6)(h)]*
2. Before construction of new ground water monitoring wells, a soil boring shall be made at each new monitoring well location to properly determine monitoring well specifications such as well depth, screen interval, screen slot, and filter pack. *[62-520.600(6)(g)]*
3. Within 30 days after installation of a monitoring well, the permittee shall submit to the Department's Central District Office well completion reports and soil boring/lithologic logs on the attached DEP Form(s) 62-520.900(3), Monitoring Well Completion Report. *[62-520.600(6)(j) and .900(3)]*
4. All piezometers and monitoring wells not part of the approved ground water monitoring plan shall be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., unless future use is intended. *[62-532.500(5)]*

B. Operational Requirements

1. For the Part II land application system(s), all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for Land Application Site R-002 shall extend horizontally 100 feet from the application site and vertically to the base of the surficial aquifer. *[62-520.200(27)] [62-520.465]*
2. For the Part III Public Access system, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge shall extend horizontally 100 feet from the application site(s) or to the property boundaries, whichever is less, and vertically to the base of the surficial aquifer. *[62-520.200(27)] [62-520.465]*
3. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. *[62-520.400 and 62-520.420(4)]*
4. If the concentration for any constituent listed in Permit Condition III.7. and III.9. in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative background quality shall be the prevailing standard. *[62-520.420(2)]*
5. During the period of operation authorized by this permit, the permittee shall continue to sample ground water at the monitoring wells identified in Permit Conditions III.6. and III.8., below in accordance with this permit and

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

the approved ground water monitoring plan prepared in accordance with Rule 62-520.600, F.A.C. [62-520.600]
 [62-610.412] [62-610.463]

6. The following monitoring wells shall be sampled for Reuse System R-001.

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude	Longitude	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
MWB-1	Background well @ Duran Golf Course	28°14' 14"	80°44' 5"	24	Surficial	Background	Existing
MWC-1	Compliance well @ Duran Golf Course site	28°14' 22"	80°43' 57"	17	Surficial	Compliance	Existing
MWC-2	Compliance well @ Duran Golf Course Site	28°14' 11"	80°44' 26"	23	Surficial	Compliance	Existing
MWC-3	Compliance well @ Duran Golf Course Site	28°14' 51"	80°44' 34"	23	Surficial	Compliance	Existing
MWC-5-SOD	GW-5 COMPLIANCE	28°14' 3"	80°45' 33"	16	Surficial	Compliance	Existing
MWC-6-SOD	GW-6 COMPLIANCE	28°14' 2"	80°45' 18"	16	Surficial	Compliance	Existing

[62-520.600] [62-610.463]

7. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.6.:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	In Situ	Quarterly
Nitrogen, Nitrate, Total (as N)	10	mg/L	Grab	Quarterly
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Quarterly
Chloride (as Cl)	250	mg/L	Grab	Quarterly
Coliform, Fecal	4	#/100mL	Grab	Quarterly
pH	6.5-8.5	s.u.	Grab	Quarterly
Turbidity	Report	NTU	Grab	Quarterly

[62-520.600(11)(b)] [62-600.670] [62-600.650(3)] [62-520.310(5)]

8. The following monitoring wells shall be sampled for Reuse System R-002 located at Land Application Site RAA-001.

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude	Longitude	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
MWB-1-WET	BCUD South Central Wetlands MW-1 Upgradient	28°13' 18"	80°45' 40"	12	Surficial	Background	Existing
MWC-2-WET	Wetlands MW-2 Compliance	28°13' 46"	80°46' 12"	14	Surficial	Compliance	Existing

[62-520.600] [62-610.412]

9. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.8.:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	In Situ	Quarterly
Nitrogen, Nitrate, Total (as N)	10	mg/L	Grab	Quarterly

PERMITTEE: Brevard County Utility Services Department
 FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
 EXPIRATION DATE: July 11, 2026

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Quarterly
Chloride (as Cl)	250	mg/L	Grab	Quarterly
Coliform, Fecal	4	#/100mL	Grab	Quarterly
pH	6.5-8.5	s.u.	Grab	Quarterly
Turbidity	Report	NTU	Grab	Quarterly

[62-520.600(11)(b)] [62-600.670] [62-600.650(3)] [62-520.310(5)]

10. Water levels shall be recorded before evacuating each well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NAVD allowable) at a precision of plus or minus 0.01 foot. [62-520.600(11)(c)] [62-610.412(2)(c)] [62-610.463(3)(a)]
11. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-160.210] [62-600.670(3)]
12. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's Central District Office as being more representative of ground water conditions. [62-520.310(5)]
13. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10) in accordance with Permit Condition I.C.8. [62-520.600(11)(b)] [62-600.670] [62-600.680(1)] [62-620.610(18)]
14. If any monitoring well becomes inoperable or damaged to the extent that sampling or well integrity may be affected, the permittee shall notify the Department's Central District Office within two business days from discovery, and a detailed written report shall follow within ten days after notification to the Department. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence or request approval for replacement of the monitoring well. All monitoring well design and replacement shall be approved by the Department's Central District Office before installation. [62-520.600(6)(l)]
15. The permittee shall sample the following monitoring well(s): MW-5-SOD for the primary and secondary drinking water parameters included in Rules 62-550.310 and 62-550.320, F.A.C., (except for asbestos and all parameters in Table 5 of Chapter 62-550, F.A.C., other than Di(2-ethylhexyl) adipate and Di(2-ethylhexyl) phthalate). Results of this sampling shall be submitted to the Department's Central District Office with the application for permit renewal. Sampling shall occur no sooner than 180 days before submittal of the renewal application. [62-520.600(5)(b)]

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

A. Part II Slow-Rate/Restricted Access System(s) – Created Wetlands (D-002)

1. The permittee shall ensure restricted public access control to the created wetlands area and ensure that those persons who enter the area are informed of the nature of the system. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. [62-600.440(5)(g)2] [62-611.600(6)]
2. For this created, managed wetlands treatment/reuse system, persons knowledgeable in these disciplines are needed to make technical management decisions from theory and actual experience. [62-4.070(3)]
3. The created wetlands may be augmented with groundwater during periods of insufficient reclaimed water supply (high public access reuse demand) to keep the wetlands hydrated and plants viable, contingent upon receipt of appropriate permit(s) from the St. John's River Water Management District for use of groundwater in the wetlands. [62-4.070(3)]
4. The created wetlands may be augmented with water from the 100 million gallon storage ponds during periods of insufficient reclaimed water supply (high public access reuse demand) to keep the wetlands hydrated and plants viable, contingent upon maintaining compliance with the reclaimed water and effluent limitations

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

contained in Part I.A.1. of this permit, or water from the wetland may be sent to the storage pond as an alternative to discharging to surface waters.

B. Part III Public Access System(s) – R-001

1. Use of reclaimed water is authorized within the general service area identified in the attached map. The following uses of reclaimed water are authorized within this general service area:

Residential Developments
Golf Courses
Athletic Complexes and Parks
Other Landscape Irrigation

[62-620.630(10)(a)]

2. This reuse system includes the following major user(s) of reclaimed water (i.e., using 0.1 MGD or more) and general service area(s):

Site Number	User Name	User Type	Capacity (MGD)	Acreage
PAA-001A	R-001 site Baytree G.C.	Golf Courses	0.410	103
PAA-001B	R-001 site Indian River Colony Club G.C.	Golf Courses	0.730	220
PAA-001C	R-001 site Duran Golf Courses	Golf Courses	0.380	136
PAA-001E	Viera East Golf Course	Golf Courses	0.290	100
Total			1.81	559

[62-610.800(5)][62-620.630(10)(b)]

3. New major users of reclaimed water (i.e., using 0.1 MGD or more) may be added to the reuse system using the general permit described in Rule 62-610.890, F.A.C., if the requirements in this rule are complied with. Application for use of this general permit shall be made using Form 62-610.300(4)(a)1. *[62-610.890]*
4. Cross-connections to the potable water system are prohibited. *[62-610.469(7)]*
5. A cross-connection control program shall be implemented and/or remain in effect within the areas where reclaimed water will be provided for use and shall be in compliance with the Rule 62-555.360, F.A.C. *[62-610.469(7)]*
6. The permittee shall conduct inspections within the reclaimed water service area to verify proper connections, to minimize illegal cross-connections, and to verify both the proper use of reclaimed water and that the proper backflow prevention assemblies or devices have been installed and tested. Inspections are required when a customer first connects to the reuse distribution system. Subsequent inspections are required as specified in the cross-connection control and inspection program. *[62-610.469(7)(h)]*
7. If an actual or potential (e.g. no dual check device on residential connections served by a reuse system) cross-connection between the potable and reclaimed water systems is discovered, the permittee shall:
 - a. Immediately discontinue potable water and/or reclaimed water service to the affected area if an actual cross-connection is discovered.
 - b. If the potable water system is contaminated, clear the potable water lines.
 - c. Eliminate the cross-connection and install a backflow prevention device as required by the Rule 62-555.360.F.A.C.

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

- d. Test the affected area for other possible cross-connections.
- e. Within 24 hours, notify the Department's Central District Office's domestic wastewater and drinking water programs.
- f. Within 5 days of discovery of an actual or potential cross-connection, submit a written report to the Department's Central District Office detailing: a description of the cross-connection, how the cross-connection was discovered, the exact date and time of discovery, approximate time that the cross-connection existed, the location, the cause, steps taken to eliminate the cross-connection, whether reclaimed water was consumed, and reports of possible illness, whether the drinking water system was contaminated and the steps taken to clear the drinking water system, when the cross-connection was eliminated, plan of action for testing for other possible cross-connections in the area, and an evaluation of the cross-connection control and inspection program to ensure that future cross-connections do not occur.

[62-555.360][62-620.610(20)]

- 8. Maximum obtainable separation of reclaimed water lines and potable water lines shall be provided and the minimum separation distances specified in Rule 62-610.469(7), F.A.C., shall be provided. Reuse facilities shall be color coded or marked. Underground piping which is not manufactured of metal or concrete shall be color coded using Pantone Purple 522C using light stable colorants. Underground metal and concrete pipe shall be color coded or marked using purple as the predominant color. *[62-610.469(7)]*
- 9. In constructing reclaimed water distribution piping, the permittee shall maintain a 75-foot setback distance from a reclaimed water transmission facility to public water supply wells. No setback distances are required to other potable water supply wells or to any nonpotable water supply wells. *[62-610.471(3)]*
- 10. A setback distance of 75 feet shall be maintained between the edge of the wetted area and potable water supply wells, unless the utility adopts and enforces an ordinance prohibiting potable water supply wells within the reuse service area. No setback distances are required to any nonpotable water supply well, to any surface water, to any developed areas, or to any private swimming pools, hot tubs, spas, saunas, picnic tables, barbecue pits, or barbecue grills. *[62-610.471(1), (2), (5), and (7)]*
- 11. Reclaimed water shall not be used to fill swimming pools, hot tubs, or wading pools. *[62-610.469(4)]*
- 12. Low trajectory nozzles, or other means to minimize aerosol formation shall be used within 100 feet from outdoor public eating, drinking, or bathing facilities. *[62-610.471(6)]*
- 13. A setback distance of 100 feet shall be maintained from indoor aesthetic features using reclaimed water to adjacent indoor public eating and drinking facilities. *[62-610.471(8)]*
- 14. The public shall be notified of the use of reclaimed water. This shall be accomplished by posting of advisory signs in areas where reuse is practiced, notes on scorecards, or other methods. *[62-610.468(2)]*
- 15. All new advisory signs and labels on vaults, service boxes, or compartments that house hose bibbs along with all labels on hose bibbs, valves, and outlets shall bear the words "do not drink" and "no beber" along with the equivalent standard international symbol. In addition to the words "do not drink" and "no beber," advisory signs posted at storage ponds and decorative water features shall also bear the words "do not swim" and "no nadar" along with the equivalent standard international symbols. Existing advisory signs and labels shall be retrofitted, modified, or replaced in order to comply with the revised wording requirements. For existing advisory signs and labels this retrofit, modification, or replacement shall occur within 365 days after the date of this permit. For labels on existing vaults, service boxes, or compartments housing hose bibbs this retrofit, modification, or replacement shall occur within 730 days after the date of this permit. *[62-610.468, 62-610.469]*
- 16. The permittee shall ensure that users of reclaimed water are informed about the origin, nature, and characteristics of reclaimed water; the manner in which reclaimed water can be safely used; and limitations on the use of reclaimed water. Notification is required at the time of initial connection to the reclaimed water

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

distribution system and annually after the reuse system is placed into operation. A description of on-going public notification activities shall be included in the Annual Reuse Report. [62-610.468(6)]

17. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. [62-610.414(8)]
18. Overflows from emergency discharge facilities on storage ponds shall be reported as abnormal events in accordance with Permit Condition IX.20. [62-610.800(9)]

Supplemental Water Supplies - Discharge of Stormwater into the Sewerage System

19. Introduction of stormwater into the sewerage system shall be limited to dry-weather, low-flow conditions in the sanitary sewerage system. [62-610.472(3)(c)]

V. OPERATION AND MAINTENANCE REQUIREMENTS

A. Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of one or more operators certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category I, Class A facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 6 hours/day for 7 days/week. The lead/chief operator must be a Class A operator, or higher.

[62-620.630(3)][62-699.310] [62-610.462]

2. The lead/chief operator shall be employed at the plant full time. "Full time" shall mean at least 4 days per week, working a minimum of 35 hours per week, including leave time. A licensed operator shall be on-site and in charge of each required shift for periods of required staffing time when the lead/chief operator is not on-site. An operator meeting the lead/chief operator class for the treatment plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. [62-699.311(10), (6) and (1)]
3. An operator meeting the lead/chief operator class for the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. [62-699.311(1)]

B. Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

1. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5)]
2. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1)]

C. Recordkeeping Requirements

1. The permittee shall maintain the following records and make them available for inspection at the following address: on the site of the permitted facility.
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings or electronic monitoring and recording for continuous monitoring

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

- instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
- b. Copies of all reports required by this permit for at least three years from the date the report was prepared;
 - c. Records of all data, including reports and documents, used to complete the application for this permit for at least three years from the date the application was filed;
 - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
 - e. A copy of the current wastewater facility permit;
 - f. Copies of the current operation and maintenance manuals for the wastewater facility and the collection/transmission systems owned or operated by the wastewater facility permittee as required by Chapters 62-600 and 62-604, F.A.C.;
 - g. A copy of any required record drawings for the wastewater facility and the collection/transmission systems owned or operated by the wastewater facility permittee;
 - h. Copies of the licenses of the current certified operators;
 - i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and license number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities, including any preventive maintenance or repairs made or requested; results of tests performed and samples taken, unless documented on a laboratory sheet; and notation of any notification or reporting completed in accordance with Rule 62-602.650(3), F.A.C. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed; and
 - j. Records of biosolids quantities, treatment, monitoring, and hauling for at least five years.

[62-620.350, 62-604.500, 62-602.650, 62-640.650(4)]

VI. SCHEDULES

1. In accordance with section 403.088(2)(e) and (f), Florida Statutes, a compliance schedule for this facility is contained in Consent Order OGC #21-0180, which is hereby incorporated by reference.
2. The following improvement actions shall be completed according to the following schedule:

Improvement Action	Completion Date
1. Develop a collection system operation and maintenance manual in accordance with permit condition VIII. 6	Within 8 months of permit issuance

[62-620.320(6)]

3. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
 - a. The permittee has applied for renewal of this permit at least 180 days before the expiration date of this permit using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
 - b. The permittee has made complete the application for renewal of this permit before the permit expiration date.

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility is not required to have a pretreatment program at this time. *[62-625.500]*

VIII. OTHER SPECIFIC CONDITIONS

1. The permittee shall comply with all conditions and requirements for reuse contained in their consumptive use permit issued by the Water Management District, if such requirements are consistent with Department rules. *[62-610.800(10)]*
2. In the event that the wastewater facilities or equipment, including collection/transmission systems, no longer function as intended, are no longer safe in terms of public health and safety (including inactive or abandoned facilities), or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by paragraphs 62-600.400(2)(a) and 62-604.400(2)(c), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in subsection 62-296.320(2), F.A.C. *[62-600.410(5), 62-604.500(3) and 62-640.400(6)]*
3. All collection/transmission systems shall be operated and maintained so as to provide uninterrupted service. *[62-604.500(2)]*
4. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C. *[62-604.130(4)]*
5. Cross-connection, as defined in Rule 62-550.200, F.A.C., between the wastewater facility, including the collection/transmission system, and a potable water system is prohibited. *[62-550.360][62-604.130(3)]*
6. The collection/transmission operation and maintenance manual shall be maintained and revised periodically in accordance with subsection 62-604.500(4), F.A.C., to reflect any alterations performed or to reflect experience resulting from operation. However, a new operation and maintenance manual is not required to be developed for each project if there is already an existing manual that is applicable to the facilities being constructed. *[62-604.500(4)]*
7. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
8. The operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
 - a. Which may cause fire or explosion hazards; or
 - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
 - c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
 - d. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40°C or otherwise inhibiting treatment; or
 - e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems.

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

[62-604.130(5)]

9. The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-610.418(1) and 62-600.400(2)(b)]*
10. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-701.300(1)(a)]*
11. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. *[62-620.310(4)]*
12. The permittee shall provide verbal notice to the Department's Central District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*
13. The permittee shall provide notice to the Department of the following:
 - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C., if it were directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.Notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility. If pretreatment becomes necessary, this permit may be modified to require the permittee to develop and implement a local pretreatment program in accordance with the requirements of Chapter 62-625, F.A.C.

[62-620.625(2)]

IX. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1)]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications, or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2)]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. *[62-620.610(3)]*

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4)]*
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-620.610(5)]*
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. *[62-620.610(6)]*
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620.610(7)]*
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620.610(8)]*
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
 - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
 - b. Have access to and copy any records that shall be kept under the conditions of this permit;
 - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
 - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.*[62-620.610(9)]*
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10)]*
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17)]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160, 62-600, and 62-610, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
 - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

- e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
- f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.

[62-620.610(18)]

- 19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. *[62-620.610(19)]*
- 20. The permittee shall report to the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. For noncompliance events related to sanitary sewer overflows or bypass events, these reports must include the data described above (with the exception of time of discovery) as well as the type of event (sanitary sewer overflows or bypass events), type of sewer overflow (e.g., manhole), discharge volumes by the treatment works treating domestic sewage, types of human health and environmental impacts of the sewer overflow event, and whether the noncompliance was related to wet weather. The written submission may be provided electronically using the Department's Business Portal at <http://www.fldepportal.com/go/> (via "Submit" followed by "Report" or "Registration/Notification"). Notice required under paragraph (d) may be provided together with the written submission using the Business Portal. All noncompliance events related to sanitary sewer overflows or bypass events submitted after December 21, 2020 shall be submitted electronically.
 - (a) The following shall be included as information which must be reported within 24 hours under this condition:
 - 1. Any unanticipated bypass which causes any reclaimed water or the effluent to exceed any permit limitation or results in an unpermitted discharge,
 - 2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - 3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - 4. Any unauthorized discharge to surface or ground waters.
 - (b) Oral reports as required by this subsection shall be provided as follows:
 - 1. For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling the STATE WATCH OFFICE TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Watch Office:
 - a. Name, address, and telephone number of person reporting;
 - b. Name, address, and telephone number of permittee or responsible person for the discharge;
 - c. Date and time of the discharge and status of discharge (ongoing or ceased);
 - d. Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - e. Estimated amount of the discharge;
 - f. Location or address of the discharge;
 - g. Source and cause of the discharge;
 - h. Whether the discharge was contained on-site, and cleanup actions taken to date;
 - i. Description of area affected by the discharge, including name of water body affected, if any; and
 - j. Other persons or agencies contacted.

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

2. Oral reports, not otherwise required to be provided pursuant to subparagraph (b)1. above, shall be provided to the Department within 24 hours from the time the permittee becomes aware of the circumstances.

- (c) If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department shall waive the written report.
- (d) In accordance with Section 403.077, F.S., unauthorized releases or spills reportable to the StateWatch Office pursuant to subparagraph (b)1. above shall also be reported to the Department within 24 hours from the time the permittee becomes aware of the discharge. The permittee shall provide to the Department information reported to the State Watch Office. Notice of unauthorized releases or spills may be provided to the Department through the Department's Public Notice of Pollution web page at <https://floridadep.gov/pollutionnotice>.
 - 1. If, after providing notice pursuant to paragraph (d) above, the permittee determines that a reportable unauthorized release or spill did not occur or that an amendment to the notice is warranted, the permittee may submit additional notice to the Department documenting such determination.
 - 2. If, after providing notice pursuant to paragraph (d) above, the permittee discovers that a reportable unauthorized release or spill has migrated outside the property boundaries of the installation, the permittee must provide an additional notice to the Department that the release has migrated outside the property boundaries within 24 hours after its discovery of the migration outside of the property boundaries.

[62-620.610(20)] [62-620.100(3)] [403.077, F.S.]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX.17., IX.18., or IX.19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20. of this permit. [62-620.610(21)]

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Permit Condition IX.22.c. of this permit.
- c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX.22.b.(1) through (3) of this permit.
- e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX.22.b. through d. of this permit.

[62-620.610(22)]

PERMITTEE: Brevard County Utility Services Department
FACILITY: BCUD/South Central Regional

PERMIT NUMBER: FL0102679
EXPIRATION DATE: July 11, 2026

23. Upset Provisions.

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
 - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
 - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in Permit Condition IX.20. of this permit; and
 - (4) The permittee complied with any remedial measures required under Permit Condition IX.5. of this permit.
- c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
- d. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23)]

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Reggie Phillips
Program Administrator
Permitting and Waste Cleanup Program

Attachment(s):
Discharge Monitoring Report
"Pathogen Monitoring" Form
Monitor Well Completion Report
Map of the General Reuse Service Area

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Brevard County Utility Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940- 6605
 FACILITY: BCUD/South Central Regional
 LOCATION: 10001 N Wickham Rd
 Melbourne, FL 32940-6604

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0102679-018-DW1P
 LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: D-001
 MONITORING GROUP DESCRIPTION: Surface Discharge, including Influent
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

Expiration Date July 11, 2026
REPORT FREQUENCY: Monthly
PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Outfall D-001)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-9	Permit Requirement		0.990 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Outfall D-001)	Sample Measurement										
PARM Code 50050 I Mon. Site No. FLW-9	Permit Requirement	Report (Day.Max.)	Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. WEP-1	Permit Requirement				3.0 (An.Avg.)			mg/L		5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 P Mon. Site No. WEP-1	Permit Requirement				6.0 (Max.)	4.5 (Max.Wk.Avg.)	3.75 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Q Mon. Site No. WEP-1	Permit Requirement		Report (Mo.Total)	lb/mth						Monthly	Calculated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon. Site No. WEP-1	Permit Requirement				3.0 (An.Avg.)			mg/L		5 Days/Week	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP D-001

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. WEP-1	Permit Requirement				6.0 (Max.)	4.5 (Max.Wk.Avg.)	3.75 (Mo.Avg.)	mg/L		5 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 P Mon. Site No. WEP-1	Permit Requirement						Report (Max.Wk.Avg.)	#/100mL		5 Days/Week	Grab
pH	Sample Measurement										
PARM Code 00400 P Mon. Site No. WEP-1	Permit Requirement				6.5 (Min.)		8.0 (Max.)	s.u.		Continuous	Meter
Nitrogen, Total	Sample Measurement										
PARM Code 00600 P Mon. Site No. WEP-1	Permit Requirement				2.4 (Max.Wk.Avg.)	2.0 (Mo.Avg.)	3.2 (Max.)	mg/L		Weekly	24-hr FPC
Nitrogen, Kjeldahl, Total (as N)	Sample Measurement										
PARM Code 00625 P Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement										
PARM Code 00630 P Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Nitrogen, Ammonia, Total (as N) (Effluent)	Sample Measurement										
PARM Code 00610 P Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Nitrogen, Ammonia, Total (as N) (calculated limit)	Sample Measurement										
PARM Code 00610 Q Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	Calculated
Nitrogen, Ammonia, Total (as N) (Effluent minus calculated limit)	Sample Measurement										
PARM Code 00610 R Mon. Site No. WEP-1	Permit Requirement						0.00 (Mo.Avg.)	mg/L		Weekly	Calculated
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 S Mon. Site No. WEP-1	Permit Requirement						2.5 (Max.)	mg/L		Monthly	Calculated

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP D-001

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 P Mon. Site No. WEP-1	Permit Requirement				0.24 (Max.Wk.Avg.)	0.2 (Mo.Avg.)	0.32 (Max.)	mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Q Mon. Site No. WEP-1	Permit Requirement		Report (Mo.Total)	lb/mth						Monthly	Calculated
Phosphate, Ortho (as P)	Sample Measurement										
PARM Code 70507 P Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Sulfate, Total	Sample Measurement										
PARM Code 00945 P Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Chloride (as Cl)	Sample Measurement										
PARM Code 00940 P Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Alkalinity, Total (as CaCO ₃)	Sample Measurement										
PARM Code 00410 P Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Specific Conductance	Sample Measurement										
PARM Code 00095 P Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	umhos/cm		Weekly	Grab
Temperature (C), Water	Sample Measurement										
PARM Code 00010 P Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	Deg C		Monthly	Meter
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 P Mon. Site No. WEP-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Monthly	Grab
Water Level at sample collection time	Sample Measurement										
PARM Code 85327 P Mon. Site No. WEP-1	Permit Requirement		Report (Mo.Avg.)	ft						Monthly	Meter

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Brevard County Utility Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940- 6605
 FACILITY: BCUD/South Central Regional
 LOCATION: 10001 N Wickham Rd
 Melbourne, FL 32940-6604

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0102679-018-DW1P
 LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: D-001
 MONITORING GROUP DESCRIPTION: Surface Discharge, including Influent
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

Expiration Date July 11, 2026
REPORT FREQUENCY: Annually
PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 P Mon. Site No. WEP-1	Permit Requirement		2000 (Max.)	lb/yr						Annually	Calculated
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 P Mon. Site No. WEP-1	Permit Requirement		46 (Max.)	lb/yr						Annually	Calculated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Brevard County Utility Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940- 6605
 FACILITY: BCUD/South Central Regional
 LOCATION: 10001 N Wickham Rd
 Melbourne, FL 32940-6604

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0102679-018-DW1P
 LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: R-001
 MONITORING GROUP DESCRIPTION: Public Access Reuse, with Influent
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

Expiration Date July 11, 2026
REPORT FREQUENCY: Monthly
PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Public access reuse)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-10	Permit Requirement		Report (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Public access reuse)	Sample Measurement										
PARM Code 50050 I Mon. Site No. FLW-10	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement				20.0 (An.Avg.)			mg/L		5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement				60.0 (Max.)	45.0 (Max.Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 P Mon. Site No. EFA-2	Permit Requirement				20.0 (An.Avg.)			mg/L		5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Q Mon. Site No. EFA-2	Permit Requirement				60.0 (Max.)	45.0 (Max.Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

R-001

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 B Mon. Site No. EFB-1	Permit Requirement					5.0 (Max.)	mg/L			4 Days/Week	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. EFB-2	Permit Requirement					5.0 (Max.)	mg/L			4 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement					25 (Max.)	#/100mL			4 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 P Mon. Site No. EFA-2	Permit Requirement					25 (Max.)	#/100mL			4 Days/Week	Grab
Coliform, Fecal, % less than detection	Sample Measurement										
PARM Code 51005 A Mon. Site No. EFA-1	Permit Requirement				75 (Min.Mo.Total)		percent			4 Days/Week	Calculated
Coliform, Fecal, % less than detection	Sample Measurement										
PARM Code 51005 P Mon. Site No. EFA-2	Permit Requirement				75 (Min.Mo.Total)		percent			4 Days/Week	Calculated
pH	Sample Measurement										
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)	8.5 (Max.)	s.u.			Continuous	Meter
pH	Sample Measurement										
PARM Code 00400 P Mon. Site No. EFA-2	Permit Requirement				6.0 (Min.)	8.5 (Max.)	s.u.			Continuous	Meter
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				1.0 (Min.)		mg/L			Continuous	Meter
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 P Mon. Site No. EFA-2	Permit Requirement				1.0 (Min.)		mg/L			Continuous	Meter

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP R-001

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Turbidity	Sample Measurement										
PARM Code 00070 B Mon. Site No. EFB-1	Permit Requirement						Report (Max.)	NTU		Continuous	Meter
Turbidity	Sample Measurement										
PARM Code 00070 P Mon. Site No. EFB-2	Permit Requirement						Report (Max.)	NTU		Continuous	Meter
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon. Site No. EFA-1	Permit Requirement					10.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 P Mon. Site No. EFA-2	Permit Requirement					10.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Q Mon. Site No. EFA-2	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Y Mon. Site No. EFA-1	Permit Requirement					6.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 A Mon. Site No. EFA-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 P Mon. Site No. EFA-2	Permit Requirement					6.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Q Mon. Site No. EFA-2	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP R-001

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Baytree Golf Course Pond)	Sample Measurement										
PARM Code 50050 P Mon. Site No. FLW-5	Permit Requirement		Report (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Baytree Golf Course Pond)	Sample Measurement										
PARM Code 50050 Q Mon. Site No. FLW-5	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Viera Golf Course Pond)	Sample Measurement										
PARM Code 50050 R Mon. Site No. FLW-6	Permit Requirement		Report (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Viera Golf Course Pond)	Sample Measurement										
PARM Code 50050 S Mon. Site No. FLW-6	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Indian River Colony Club)	Sample Measurement										
PARM Code 50050 T Mon. Site No. FLW-7	Permit Requirement		Report (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Indian River Colony Club)	Sample Measurement										
PARM Code 50050 U Mon. Site No. FLW-7	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Duran Golf Course)	Sample Measurement										
PARM Code 50050 V Mon. Site No. FLW-8	Permit Requirement		Report (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Duran Golf Course)	Sample Measurement										
PARM Code 50050 W Mon. Site No. FLW-8	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Total Through Plant)	Sample Measurement										
PARM Code 50050 6 Mon. Site No. FLW-1	Permit Requirement		12.0 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Total Through Plant)	Sample Measurement										
PARM Code 50050 5 Mon. Site No. FLW-1	Permit Requirement	Report (3Mo.Avg.)	Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP R-001

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From:

To:

[illegible]

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Brevard County Utility Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940- 6605
 FACILITY: BCUD/South Central Regional
 LOCATION: 10001 N Wickham Rd
 Melbourne, FL 32940-6604

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0102679-018-DW1P
 LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: R-002
 MONITORING GROUP DESCRIPTION: Influent to manmade wetlands
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

Expiration Date July 11, 2026
REPORT FREQUENCY: Monthly
PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (wetlands from WRF)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-11	Permit Requirement		2.5 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (wetlands)	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-11	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement				5.0 (An.Avg.)			mg/L		5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement				10.0 (Max.)	7.5 (Max.Wk.Avg.)	6.25 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 P Mon. Site No. EFA-2	Permit Requirement				5.0 (An.Avg.)			mg/L		5 Days/Week	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Q Mon. Site No. EFA-2	Permit Requirement				10.0 (Max.)	7.5 (Max.Wk.Avg.)	6.25 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

R-002

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon. Site No. EFA-1	Permit Requirement				5.0 (An.Avg.)			mg/L		5 Days/Week	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 A Mon. Site No. EFA-1	Permit Requirement				10.0 (Max.)	7.5 (Max.Wk.Avg.)	6.25 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. EFA-2	Permit Requirement				5.0 (An.Avg.)			mg/L		5 Days/Week	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Q Mon. Site No. EFA-2	Permit Requirement				10.0 (Max.)	7.5 (Max.Wk.Avg.)	6.25 (Mo.Avg.)	mg/L		5 Days/Week	24-hr FPC
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Y Mon. Site No. EFA-1	Permit Requirement				200 (An.Avg.)			#/100mL		5 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement				200 (Mo.Geo.Mn.)	800 (Max.)		#/100mL		5 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 P Mon. Site No. EFA-2	Permit Requirement				200 (An.Avg.)			#/100mL		5 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Q Mon. Site No. EFA-2	Permit Requirement				200 (Mo.Geo.Mn.)	800 (Max.)		#/100mL		5 Days/Week	Grab
pH	Sample Measurement										
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		Continuous	Meter
pH	Sample Measurement										
PARM Code 00400 P Mon. Site No. EFA-2	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		Continuous	Meter

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

R-002

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				0.5 (Min.)			mg/L		Continuous	Meter
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 P Mon. Site No. EFA-2	Permit Requirement				0.5 (Min.)			mg/L		Continuous	Meter
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon. Site No. EFA-1	Permit Requirement					6.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement				12.0 (Max.)	9.0 (Max.Wk.Avg.)	7.5 (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 P Mon. Site No. EFA-2	Permit Requirement					6.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Q Mon. Site No. EFA-2	Permit Requirement				12.0 (Max.)	9.0 (Max.Wk.Avg.)	7.5 (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Y Mon. Site No. EFA-1	Permit Requirement					0.75 (An.Avg.)		mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 A Mon. Site No. EFA-1	Permit Requirement				1.5 (Max.)	1.125 (Max.Wk.Avg.)	0.94 (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 P Mon. Site No. EFA-2	Permit Requirement					0.75 (An.Avg.)		mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Q Mon. Site No. EFA-2	Permit Requirement				1.5 (Max.)	1.125 (Max.Wk.Avg.)	0.94 (Mo.Avg.)	mg/L		Weekly	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

R-002

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (from storage pond to wetlands)	Sample Measurement										
PARM Code 50050 P Mon. Site No. FLW-12	Permit Requirement		Report (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (from storage pond to wetlands)	Sample Measurement										
PARM Code 50050 Q Mon. Site No. FLW-12	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
Flow (from wetlands to storage pond)	Sample Measurement										
PARM Code 50050 R Mon. Site No. FLW-13	Permit Requirement		Report (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (from wetlands to storage pond)	Sample Measurement										
PARM Code 50050 S Mon. Site No. FLW-13	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Brevard County Utility Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940- 6605
 FACILITY: BCUD/South Central Regional
 LOCATION: 10001 N Wickham Rd
 Melbourne, FL 32940-6604

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0102679-018-DW1P

Expiration Date July 11, 2026

LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: RMP-Q
 MONITORING GROUP DESCRIPTION: Biosolids Quantity

REPORT FREQUENCY: Monthly
 PROGRAM: Domestic

RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Biosolids Quantity (Received)	Sample Measurement										
PARM Code B0002 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Landfilled)	Sample Measurement										
PARM Code B0008 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Transferred)	Sample Measurement										
PARM Code B0007 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FL0102679-018-DW1P
From: _____ To: _____

Facility: BCUD/South Central Regional

	Alkalinity, Total (as CaCO ₃) mg/L	BOD, Carbonaceou s 5 day, 20C mg/L	BOD, Carbonaceou s 5 day, 20C mg/L	BOD, Carbonaceou s 5 day, 20C (Influent) mg/L	BOD, Carbonaceou s 5 day, 20C mg/L	Chloride (as Cl) mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Coliform, Fecal #/100mL	Coliform, Fecal #/100mL
Code	00410	80082	80082	80082	80082	00940	50060	50060	74055	74055	74055
Mon. Site	WEP-1	EFA-1	EFA-2	INF-1	WEP-1	WEP-1	EFA-1	EFA-2	EFA-1	EFA-2	WEP-1
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator	Class: _____	Certificate No: _____	Name: _____
Evening Shift Operator	Class: _____	Certificate No: _____	Name: _____
Night Shift Operator	Class: _____	Certificate No: _____	Name: _____
Lead Operator	Class: _____	Certificate No: _____	Name: _____

ISSUANCE/REISSUANCE DATE: July 12, 2021

DMR EFFECTIVE DATE: September 1, 2021 - Permit expiration

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FL0102679-018-DW1P

From: To:

Facility: BCUD/South Central Regional

	Flow (Total Through Plant) MGD	Flow (Public access reuse) MGD	Flow (wetlands) MGD	Flow (from storage pond to wetlands) MGD	Flow (from wetlands to storage pond) MGD	Flow (Baytree Golf Course Pond) MGD	Flow (Viera Golf Course Pond) MGD	Flow (Indian River Colony Club) MGD	Flow (Duran Golf Course) MGD	Flow (Outfall D-001) MGD	Nitrite plus Nitrate, Total 1 det. (as N) mg/L
Code	50050	50050	50050	50050	50050	50050	50050	50050	50050	50050	00630
Mon. Site	FLW-1	FLW-10	FLW-11	FLW-12	FLW-13	FLW-5	FLW-6	FLW-7	FLW-8	FLW-9	WEP-1
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: Certificate No: Name:

Evening Shift Operator Class: Certificate No: Name:

Night Shift Operator Class: Certificate No: Name:

Lead Operator Class: Certificate No: Name:

ISSUANCE/REISSUANCE DATE: July 12, 2021
DMR EFFECTIVE DATE: September 1, 2021 - Permit expiration

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FL0102679-018-DW1P

From: To:

Facility: BCUD/South Central Regional

	Nitrogen, Ammonia, Total (as N) (Effluent) mg/L	Nitrogen, Kjeldahl, Total (as N) mg/L	Nitrogen, Total mg/L	Nitrogen, Total mg/L	Nitrogen, Total mg/L	Oxygen, Dissolved (DO) mg/L	Phosphate, Ortho (as P) mg/L	Phosphorus, Total (as P) mg/L	Phosphorus, Total (as P) mg/L	Phosphorus, Total (as P) mg/L	Rainfall in
Code	00610	00625	00600	00600	00600	00300	70507	00665	00665	00665	46529
Mon. Site	WEP-1	WEP-1	EFA-1	EFA-2	WEP-1	WEP-1	WEP-1	EFA-1	EFA-2	WEP-1	OTH-1
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: Certificate No: Name:

Evening Shift Operator Class: Certificate No: Name:

Night Shift Operator Class: Certificate No: Name:

Lead Operator Class: Certificate No: Name:

ISSUANCE/REISSUANCE DATE: July 12, 2021
DMR EFFECTIVE DATE: September 1, 2021 - Permit expiration

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FL0102679-018-DW1P

From: _____ To: _____

Facility: BCUD/South Central Regional

	Solids, Total Suspended mg/L	Solids, Total Suspended mg/L	Solids, Total Suspended mg/L	Solids, Total Suspended mg/L	Solids, Total Suspended (Influent) mg/L	Solids, Total Suspended mg/L	Specific Conductance umhos/cm	Sulfate, Total mg/L	Temperature (C), Water Deg C	Turbidity NTU	Turbidity NTU
Code	00530	00530	00530	00530	00530	00530	00095	00945	00010	00070	00070
Mon. Site	EFA-1	EFA-2	EFB-1	EFB-2	INF-1	WEP-1	WEP-1	WEP-1	WEP-1	EFB-1	EFB-2
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: _____ Certificate No: _____ Name: _____

Evening Shift Operator Class: _____ Certificate No: _____ Name: _____

Night Shift Operator Class: _____ Certificate No: _____ Name: _____

Lead Operator Class: _____ Certificate No: _____ Name: _____

ISSUANCE/REISSUANCE DATE: July 12, 2021
DMR EFFECTIVE DATE: September 1, 2021 - Permit expiration

DAILY SAMPLE RESULTS - PART B

Permit Number:

FL0102679-018-DW1P

Facility:

BCUD/South Central Regional

Monitoring Period

From: _____ To: _____

	Water Level at sample. collection time ft	pH s.u.	pH s.u.	pH s.u.							
Code	85327	00400	00400	00400							
Mon. Site	WEP-1	EFA-1	EFA-2	WEP-1							
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator	Class: _____	Certificate No: _____	Name: _____
Evening Shift Operator	Class: _____	Certificate No: _____	Name: _____
Night Shift Operator	Class: _____	Certificate No: _____	Name: _____
Lead Operator	Class: _____	Certificate No: _____	Name: _____

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Central Regional
 Permit Number: FL0102679-018-DW1P
 County: Brevard

Monitoring Well ID: MWB-1
 Well Type: Background
 Description: Background well @
 Duran Golf Course

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Central Regional
 Permit Number: FL0102679-018-DW1P
 County: Brevard

Monitoring Well ID: MWC-1
 Well Type: Compliance
 Description: Compliance well @
 Duran Golf Course site
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Central Regional
 Permit Number: FL0102679-018-DW1P
 County: Brevard

Monitoring Well ID: MWC-2
 Well Type: Compliance
 Description: Compliance well @
 Duran Golf Course Site

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Central Regional
 Permit Number: FL0102679-018-DW1P
 County: Brevard

Monitoring Well ID: MWC-3
 Well Type: Compliance
 Description: Compliance well @
 Duran Golf Course Site

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Central Regional
 Permit Number: FL0102679-018-DW1P
 County: Brevard
 Office: Central District

Monitoring Well ID: MWC-6-SOD
 Well Type: Compliance
 Description: GW-6 COMPLIANCE
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____
 Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Central Regional
 Permit Number: FL0102679-018-DW1P
 County: Brevard
 Office: Central District

Monitoring Well ID: MWC-5-SOD
 Well Type: Compliance
 Description: GW-5 COMPLIANCE
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____
 Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Central Regional
 Permit Number: FL0102679-018-DW1P
 County: Brevard

Monitoring Well ID: MWB-1-WET
 Well Type: Background
 Description: BCUD South Central
 Wetlands MW-1
 Upgradient

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: BCUD/South Central Regional
 Permit Number: FL0102679-018-DW1P
 County: Brevard

Monitoring Well ID: MWC-2-WET
 Well Type: Compliance
 Description: Wetlands MW-2 Compliance
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. Facilities who submit their DMR(s) electronically through eDMR do not need to submit a hardcopy DMR. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used, unless indicated otherwise in the permit or on the DMR:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units. Data qualifier codes are not to be reported on Part A.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Data qualifier codes are not to be reported on Part D.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Brevard County Utility Services Department
 MAILING ADDRESS: 2725 Judge Fran Jamieson Way
 BLDG. A-213
 Melbourne, Florida 32940- 6605
 FACILITY: BCUD/South Central Regional
 LOCATION: 10001 N Wickham Rd
 Melbourne, FL 32940-6604

COUNTY: Brevard
 OFFICE: Central District

PERMIT NUMBER: FL0102679-018-DW1P

LIMIT: Final
 CLASS SIZE: MI
 MONITORING GROUP NUMBER: RWS-A
 MONITORING GROUP DESCRIPTION: Annual Reclaimed Water or Effluent Analysis
 RE-SUBMITTED DMR: ☐
 NO DISCHARGE FROM SITE: ☐
 MONITORING NOT REQUIRED:* ☐
 MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Annually
 PROGRAM: Domestic

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable (GWS = 6)**	Sample Measurement							
PARM Code 01268 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Arsenic, Total Recoverable (GWS = 10)	Sample Measurement							
PARM Code 00978 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Barium, Total Recoverable (GWS = 2,000)	Sample Measurement							
PARM Code 01009 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Beryllium, Total Recoverable (GWS = 4)	Sample Measurement							
PARM Code 00998 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Cadmium, Total Recoverable (GWS = 5)	Sample Measurement							
PARM Code 01113 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Chromium, Total Recoverable (GWS =100)	Sample Measurement							
PARM Code 01118 P Mon. Site No. RWS-A	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC

*THE "MONITORING NOT REQUIRED" CHECKBOX SHOULD BE SELECTED WHEN A CERTIFICATION STATEMENT IN ACCORDANCE WITH SUBSECTION 62-600.680(2), F.A.C., IS SUBMITTED WITH THIS DMR. SEE CERTIFICATION STATEMENT IN COMMENTS SECTION BELOW.

**GROUND WATER STANDARD (GWS) FOR REFERENCE AND REVIEW ONLY.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

☐ NO NEW NON-DOMESTIC WASTEWATER DISCHARGERS HAVE BEEN ADDED TO THE COLLECTION SYSTEM SINCE THE LAST RECLAIMED WATER OR EFFLUENT ANALYSIS WAS CONDUCTED.
 SIGN AND DATE:

ISSUANCE/REISSUANCE DATE: July 12, 2021

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Cyanide, Free (amen. to chlorination)(GWS = 200)	Sample Measurement										
PARM Code 00722 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Fluoride, Total (as F) (GWS = 4.0/2.0)	Sample Measurement										
PARM Code 00951 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Lead, Total Recoverable (GWS = 15)	Sample Measurement										
PARM Code 01114 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Mercury, Total Recoverable (GWS = 2)	Sample Measurement										
PARM Code 71901 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Nickel, Total Recoverable (GWS = 100)	Sample Measurement										
PARM Code 01074 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Nitrogen, Nitrate, Total (as N) (GWS = 10)	Sample Measurement										
PARM Code 00620 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Nitrogen, Nitrite, Total (as N) (GWS = 1)	Sample Measurement										
PARM Code 00615 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Nitrite plus Nitrate, Total 1 det. (as N)(GWS = 10)	Sample Measurement										
PARM Code 00630 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Selenium, Total Recoverable (GWS = 50)	Sample Measurement										
PARM Code 00981 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Sodium, Total Recoverable (GWS = 160)	Sample Measurement										
PARM Code 00923 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE: July 12, 2021

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Thallium, Total Recoverable (GWS = 2)	Sample Measurement										
PARM Code 00982 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
1,1-dichloroethylene (GWS = 7)	Sample Measurement										
PARM Code 34501 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,1,1-trichloroethane (GWS = 200)	Sample Measurement										
PARM Code 34506 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,1,2-trichloroethane (GWS = 5)	Sample Measurement										
PARM Code 34511 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-dichloroethane (GWS = 3)	Sample Measurement										
PARM Code 32103 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-dichloropropane (GWS = 5)	Sample Measurement										
PARM Code 34541 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2,4-trichlorobenzene (GWS = 70)	Sample Measurement										
PARM Code 34551 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Benzene (GWS = 1)	Sample Measurement										
PARM Code 34030 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Carbon tetrachloride (GWS = 3)	Sample Measurement										
PARM Code 32102 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Cis-1,2-dichloroethene (GWS = 70)	Sample Measurement										
PARM Code 81686 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dichloromethane (methylene chloride)(GWS = 5)	Sample Measurement										
PARM Code 03821 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Ethylbenzene (GWS = 700)	Sample Measurement										
PARM Code 34371 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Monochlorobenzene (GWS = 100)	Sample Measurement										
PARM Code 34031 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-dichlorobenzene (GWS = 600)	Sample Measurement										
PARM Code 34536 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,4-dichlorobenzene (GWS = 75)	Sample Measurement										
PARM Code 34571 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Styrene, Total (GWS = 100)	Sample Measurement										
PARM Code 77128 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Tetrachloroethylene (GWS = 3)	Sample Measurement										
PARM Code 34475 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Toluene (GWS = 1,000)	Sample Measurement										
PARM Code 34010 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-trans-dichloroethylene (GWS = 100)	Sample Measurement										
PARM Code 34546 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Trichloroethylene (GWS = 3)	Sample Measurement										
PARM Code 39180 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Vinyl chloride (GWS = 1)	Sample Measurement										
PARM Code 39175 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Xylenes (GWS = 10,000)	Sample Measurement										
PARM Code 81551 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
2,3,7,8-tetrachlorodibenzo-p-dioxin(GWS = 3x10 ⁻⁵)	Sample Measurement										
PARM Code 34675 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dichlorophenoxyacetic acid (GWS = 70)	Sample Measurement										
PARM Code 39730 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Silvex (GWS = 50)	Sample Measurement										
PARM Code 39760 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Alachlor (GWS = 2)	Sample Measurement										
PARM Code 39161 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Atrazine (GWS = 3)	Sample Measurement										
PARM Code 39033 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(a)pyrene (GWS = 0.2)	Sample Measurement										
PARM Code 34247 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Carbofuran (GWS = 40)	Sample Measurement										
PARM Code 81405 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Chlordane (tech mix. and metabolites)(GWS = 2)	Sample Measurement										
PARM Code 39350 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dalapon (GWS = 200)	Sample Measurement										
PARM Code 38432 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Bis(2-ethylhexyl)adipate (GWS = 400)	Sample Measurement										
PARM Code 77903 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-ethylhexyl) phthalate (GWS = 6)	Sample Measurement										
PARM Code 39100 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Dibromochloropropane (DBCP) (GWS = 0.2)	Sample Measurement										
PARM Code 82625 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Dinoseb (GWS = 7)	Sample Measurement										
PARM Code 30191 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Diquat (GWS = 20)	Sample Measurement										
PARM Code 04443 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Endothall (GWS = 100)	Sample Measurement										
PARM Code 38926 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Endrin (GWS = 2)	Sample Measurement										
PARM Code 39390 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Ethylene dibromide (1,2-dibromoethane)(GWS = 0.02)	Sample Measurement										
PARM Code 77651 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Glyphosate (GWS = 0.7)	Sample Measurement										
PARM Code 79743 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Heptachlor (GWS = 0.4)	Sample Measurement										
PARM Code 39410 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Heptachlor epoxide (GWS = 0.2)	Sample Measurement										
PARM Code 39420 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorobenzene (GWS = 1)	Sample Measurement										
PARM Code 39700 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorocyclopentadiene (GWS = 50)	Sample Measurement										
PARM Code 34386 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Gamma BHC (Lindane) (GWS = 0.2)	Sample Measurement										
PARM Code 39782 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Methoxychlor (GWS = 40)	Sample Measurement										
PARM Code 39480 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Oxamyl (vydate) (GWS = 200)	Sample Measurement										
PARM Code 38865 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Pentachlorophenol (GWS = 1)	Sample Measurement										
PARM Code 39032 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Picloram (GWS = 500)	Sample Measurement										
PARM Code 39720 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Polychlorinated Biphenyls (PCBs)(GWS = 0.5)	Sample Measurement										
PARM Code 39516 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE: July 12, 2021

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Simazine (GWS = 4)	Sample Measurement										
PARM Code 39055 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Toxaphene (GWS = 3)	Sample Measurement										
PARM Code 39400 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Trihalomethane, Total by summation (GWS = 0.080)	Sample Measurement										
PARM Code 82080 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	Grab
Radium 226 + Radium 228, Total (GWS = 5)	Sample Measurement										
PARM Code 11503 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	pCi/L			Annually	24-hr FPC
Alpha, Gross Particle Activity (GWS = 15)	Sample Measurement										
PARM Code 80045 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	pCi/L			Annually	24-hr FPC
Aluminum, Total Recoverable (GWS = 0.2)	Sample Measurement										
PARM Code 01104 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Chloride (as Cl) (GWS = 250)	Sample Measurement										
PARM Code 00940 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Iron, Total Recoverable (GWS = 0.3)	Sample Measurement										
PARM Code 00980 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Copper, Total Recoverable (GWS = 1,000)	Sample Measurement										
PARM Code 01119 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Manganese, Total Recoverable (GWS = 50)	Sample Measurement										
PARM Code 11123 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: BCUD/South Central Regional

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0102679-018-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Silver, Total Recoverable (GWS = 100)	Sample Measurement										
PARM Code 01079 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Sulfate, Total (GWS = 250)	Sample Measurement										
PARM Code 00945 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Zinc, Total Recoverable (GWS = 5,000)	Sample Measurement										
PARM Code 01094 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
pH (GWS = 6.5-8.5)	Sample Measurement										
PARM Code 00400 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	s.u.			Annually	Grab
Solids, Total Dissolved (TDS) (GWS = 500)	Sample Measurement										
PARM Code 70295 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Foaming Agents (GWS = 0.5)	Sample Measurement										
PARM Code 01288 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. Facilities who submit their DMR(s) electronically through eDMR do not need to submit a hardcopy DMR. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used, unless indicated otherwise in the permit or on the DMR:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units. Data qualifier codes are not to be reported on Part A.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Data qualifier codes are not to be reported on Part D.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.



Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

PATHOGEN MONITORING

Part I - Instructions

1. Completion of this report is required by Rules 62-610.463(4), 62-610.472(3)(d), 62-610.525(13), 62-610.568(11), 62-610.568(12), and 62-610.652(6)(c), F.A.C., for all domestic wastewater facilities that provide reclaimed water to certain types of reuse activities. The schedule for sampling and reporting shall be in accordance with the permit for the facility. If a schedule for sampling or re-sampling is not included in the permit, the following schedule shall apply:
 - a. Routine Sampling:

If sampling is required once every two years, this report shall be submitted on or before November 28 of each even numbered year (2006, 2008, 2010, etc.).

If sampling is required once every five years, this report shall be submitted with the application for permit renewal.

If sampling is required quarterly, this report shall be submitted on or before February 28, May 28, August 28, and November 28 of each year.
 - b. Subsequent Re-Sampling:

If subsequent re-sampling is required by Item 9 in Part I of this form, this form shall be submitted for the subsequent re-sampling(s) in accordance with the schedule established in Item 9 in Part I of this form.
2. Submit one copy of this form and a copy of the laboratory's final report for the analysis of *Giardia* and *Cryptosporidium* to each of the following two addresses:
 - a. The appropriate DEP district office (attention Domestic Wastewater Program). Addresses for the DEP district offices are available at www.dep.state.fl.us/secretary/dist/default.htm.
 - b. DEP Water Reuse Coordinator
Mail Station 3540
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
3. Please type or print legibly.
4. In Part II, Items 7 through 12 need to be completed only if this is the first submittal of this report, if the information in Items 7 through 12 has changed since the last submittal, or if the information in any of these questions has not been previously provided.
5. Part III is to be used when sampling for *Giardia* and *Cryptosporidium* at the treatment plant. Part III is also to be used when sampling for *Giardia* and *Cryptosporidium* in a supplemental water supply (see Rule 62-610.472, F.A.C.).

6. For each sample, record the sample volume obtained in liters.
7. For *Giardia*, record the concentrations in cysts per 100 liters. For *Cryptosporidium*, record the concentrations in oocysts per 100 liters. Sufficient sample volumes shall be collected and processed such that the detection limit is no greater than 5 cysts or oocysts per 100 liters. Detection levels on the order of 1 cyst or oocyst per 100 liters are recommended. If an observation is less than the detection limit, make an entry in the form "<2" (where 2 per 100 liters is the detection limit in this example). The actual detection limit will be dictated by the volumes of sample obtained, filtered, and processed. Do NOT record nondetectable values as zero.
8. EPA Method 1623 or other approved methods for reclaimed water or nonpotable waters, adjusted appropriately to accommodate the detection limit requirements, shall be used. Methods previously allowed for EPA's Information Collection Rule (ICR) shall not be used. The full requirements of the approved method, including quality assurance and quality control, are to be met. Quality assurance and sampling requirements in Chapter 62-160, F.A.C., shall apply.

Two concentrations of *Giardia* and *Cryptosporidium* shall be recorded on Part III of this form:

- a. Total cysts and oocysts shall be enumerated using EPA Method 1623 or other approved methods.
 - b. Potentially viable cysts and oocysts shall be enumerated using the DAPI staining technique contained in EPA Method 1623 or similar enumeration techniques included in other approved methods. Cysts and oocysts that are stained DAPI positive or show internal structure by D.I.C. shall be considered as being potentially viable. If the laboratory reports separate values for DAPI positive and for cysts or oocysts having internal structure, the larger of the two concentrations will be reported as being potentially viable.
9. If the number of potentially viable cysts of *Giardia* reported exceeds 5 per 100 liters, a subsequent sample shall be taken and analyzed using EPA Method 1623 or other approved methods and reported using this form. If the number of potentially viable oocysts of *Cryptosporidium* reported exceeds 22 per 100 liters, a subsequent sample shall be taken and analyzed using EPA Method 1623 or other approved methods and reported using this form. This subsequent sample shall be collected within 90 days of the date the initial sample was taken, analyzed for both *Giardia* and *Cryptosporidium*, and the results of the subsequent analysis shall be submitted to DEP using this form within 60 days of sample collection.
 10. Rule 62-160.300, F.A.C., requires that all laboratories generating environmental data for submission to the DEP shall hold certification from the Department of Health's (DOH) Environmental Laboratory Certification Program (ELCP). Certification by the ELCP for analysis of *Giardia* and *Cryptosporidium* using EPA Method 1623 for non-potable waters is required. If other approved methods are used, certification by the ELCP is required for the specific method and for the test matrix. Lists of certified laboratories can be found at www.dep.state.fl.us/labs/cgi-bin/aams/index.asp
 11. Samples shall be collected during peak flow periods (normally between the hours of 8:00 a.m. and 6:00 p.m.).
 12. Recognizing that concentrations of these pathogens generally increase during the late summer through fall period, it is recommended that utilities sample during the August through October time period.
 13. If the wastewater treatment facility uses chlorination for disinfection, samples obtained for analysis of *Giardia* and *Cryptosporidium* shall be dechlorinated.
 14. When sampling at the treatment facility, obtain a grab sample for total suspended solids (TSS) that is representative of the water leaving the filters at the treatment facility during the period when pathogen

samples are being obtained. In addition, record the highest turbidity and the lowest total chlorine residual observed during the period when pathogen samples are being obtained.

15. When sampling a supplemental water supply, obtain a grab sample for total suspended solids (TSS) that is representative of the surface water or treated stormwater as it is added to the reclaimed water system. This TSS sample shall be taken during the period when pathogen samples are being obtained. In addition, record the lowest total chlorine residual observed during the period when pathogen samples are being obtained.

Part II - General Information

1. DEP wastewater facility identification number: **FL0102679**

Wastewater facility name: BCUD/South Central Regional

Permittee name: Brevard County Utility Services Department

2. Person completing this form:

Name: _____

Telephone: (_____) _____

Email address: _____

3. Sampling and analysis:

Date samples were taken: _____

Organization collecting the samples: _____

Was the sample dechlorinated in the field? ☐ Yes ☐ No

Was the sample refrigerated or kept on ice during shipment to the laboratory? ☐ Yes ☐ No

Date samples delivered to laboratory: _____

Date analytical work was done: _____

Laboratory doing the analysis: _____

Laboratory's DOH Identification Number: _____

Approved method used:

☐ EPA Method 1623

☐ Other approved method: _____

Contact person at the laboratory: _____

Email address of the lab contact person: _____

4. Is this the first time that this form has been submitted for the facility?

☐ Yes [Please complete Questions 7 through 16.]

☐ No [Proceed to Question 5.]

5. Is this a report of "subsequent re-sampling" required by Item 9 in Part I of this form based on concentrations of potentially viable cysts or oocysts in a previous sampling?

☐ No [Proceed to Question 6.]

☐ Yes [Attach a description of any facility or operational changes made to the treatment facilities since the time of the previous sampling and proceed to Question 6.]

6. Has the information requested in Questions 7 through 12 (below) changed since the last submittal of this form?

☐ Yes [Please complete Questions 7 through 16.]

☐ No [Proceed to Questions 13 through 16 of Part II of this form. You do not need to complete Questions 7 through 12.]

7. Type of secondary treatment system:

☐ Conventional activated sludge

☐ Extended aeration

☐ Contact stabilization

☐ Biological nutrient removal (such as Bardenpho)

☐ Other: _____

8. Does this treatment facility nitrify (convert ammonia nitrogen to nitrate)? ☐ Yes ☐ No

9. Filter type:

☐ Deep bed, single media

☐ Deep bed, multiple media

☐ Shallow bed, automatic backwash

☐ Upflow (including Dynasand)

☐ Slow rate sand filter

☐ Diatomaceous earth filter

☐ Fabric filter

☐ Cartridge filter

☐ Membranes (microfiltration, ultrafiltration, membrane bioreactor, reverse osmosis)

☐ Other: _____

10. Filter Media (complete for each type of media provided):

Top layer of media: Media type: _____

Effective size: _____ mm

Uniformity coefficient: _____

Bed depth: _____ inches

Middle layer of media: Media type: _____
Effective size: _____ mm
Uniformity coefficient: _____
Bed depth: _____ inches

Bottom layer of media: Media type: _____
Effective size: _____ mm
Uniformity coefficient: _____
Bed depth: _____ inches

11. Filter backwash water:

- ☐ Backwash water is returned to the headworks of the treatment plant.
- ☐ Backwash water is returned to the aeration basin.
- ☐ Other. Please describe: _____

12. Disinfection system:

- ☐ Chlorination, gas ☐ Hypochlorite
- ☐ Chlorine dioxide ☐ Chlorination, other _____
- ☐ Ultraviolet ☐ Ozone
- ☐ Other: _____

13. Is chlorine added before the filters? ☐ No ☐ Yes Dose: _____ mg/L

14. During the period that samples were taken, did you add a coagulant, coagulant aid, polyelectrolyte, or other chemical to enhance filtration?

- ☐ No
- ☐ Yes. Please list the chemicals being added and their dose.

Chemical 1 - Name: _____ Dose: _____ mg/L

Chemical 2 - Name: _____ Dose: _____ mg/L

Chemical 3 - Name: _____ Dose: _____ mg/L

15. Wastewater treatment plant permitted capacity: _____ MGD

16. Wastewater flow being treated at the time samples were collected: _____ MGD

PART III - PATHOGEN MONITORING REPORT

FACILITY ID: FL0102679

FACILITY NAME: BCUD/South Central Regional

FACILITY ADDRESS: 10001 N Wickham Rd, Melbourne, FL 32940-6604

PERMITTEE NAME: Brevard County Utility Services Department

MAILING ADDRESS: 2725 Judge Fran Jamieson Way, BLDG. A-213, Melbourne, Florida 32940-6605

DATE OF SAMPLING: _____

Parameter	Quantity or Loading		Quality or Concentration	
	Sample Measurement	Units	Sample Measurement	Units
Treatment Plant: After Filter Monitoring Site No.				
Turbidity PARM Code 00070				NTU
TSS PARM Code 00530				mg/L
Treatment Plant: After Disinfection Monitoring Site No.				
Total Chlorine Residual PARM Code 50060				mg/L
Volume Collected PARM Code 71994		Liters		
<i>Giardia</i> , total count * PARM Code GIARD				total cysts/100 L
<i>Giardia</i> , potentially viable cysts * PARM Code VGIAR				potentially viable cysts/100 L
<i>Cryptosporidium</i> , total count * PARM Code CRYPT				total oocysts/100 L
<i>Cryptosporidium</i> , potentially viable oocysts * PARM Code VCRYP				potentially viable oocysts/100 L
Supplemental Water Supply (surface water or stormwater): After Treatment & Disinfection Monitoring Site No.				
TSS PARM Code 00530				mg/L
Total Chlorine Residual PARM Code 50060				mg/L
Volume Collected PARM Code 71994		Liters		
<i>Giardia</i> (total count) * PARM Code GIARD				total cysts/100 L
<i>Giardia</i> , potentially viable cysts * PARM Code VGIAR				potentially viable cysts/100 L
<i>Cryptosporidium</i> , total count * PARM Code CRYPT				total oocysts/100 L
<i>Cryptosporidium</i> , potentially viable oocysts * PARM Code VCRYP				potentially viable oocysts/100 L

* Data entries must be made for both total and potentially viable cysts and oocysts.

PART IV - CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name/Title of Principle Executive Officer or Authorized Agent (Type or Print)	Signature of Principle Executive Officer or Authorized Agent	Telephone No.	Date (YY/MM/DD)
Email Address			

**FACT SHEET
FOR
STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FL0102679-018 (Minor)

FACILITY NAME: BCUD/South Central Regional

FACILITY LOCATION: 10001 N Wickham Rd, Melbourne, FL 32940-6604
Brevard County

NAME OF PERMITTEE: Brevard County Utility Services Department

PERMIT WRITER: Charles R. LeGros

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FL0102679-018-DW1P

Application Submittal Date: November 4, 2020 and additional information Feb 24, 2021

b. Type of Facility

Domestic Wastewater Treatment Plant

Ownership Type: Municipal

SIC Code: 4952

c. Facility Capacity

Existing Permitted Capacity:	12.0 MGD Annual Average Daily Flow
Proposed Increase in Permitted Capacity:	0 MGD Annual Average Daily Flow
Proposed Total Permitted Capacity:	12.0 MGD Annual Average Daily Flow

d. Description of Wastewater Treatment

An existing 12.0 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity activated sludge advanced wastewater treatment (AWT) plant utilizing the IFAS BNR and Carrousel BNR Treatment Process. The plant consists of a mechanical bar screen and de-gritter assembly, 5-stage IFAS BNR and 4-stage Carrousel BNR Process (anaerobic tanks, first anoxic tanks, extended oxidation ditches, second anoxic tanks, re-aeration tanks), clarifiers, chemical feed facilities, filters and chlorination, with aerobic digestion and belt-thickening of biosolids. The facility utilizes electronic sensors and automatic diversion valves, two (2) 1.0 million gallon on-site reclaimed water covered ground storage tank and associated high service pump station, and a standby power generator. The facility includes a Septage and Grease receiving station with flow metering, mechanical screening, and a holding tank with a submersible mixer. The facility may supplement the reclaimed water production with storm water introduced into the collection system of the facility.

e. Description of Effluent Disposal and Land Application Sites (as reported by applicant)

Surface Water Discharge D-001: An existing 0.990 MGD annual average daily flow discharge to 4-Mile Canal, Class III Fresh Waters, (WBID# 2893N) which is approximately 128 feet in length and discharges at a depth of approximately 0 feet. The outfall pipe is a 60" diameter concrete culvert that discharges to the 4-Mile Canal. The point of discharge is located approximately at latitude 28°13' 48" N, longitude 80°46' 14" W.

Land Application R-001: An existing 8.2 MGD annual average daily flow permitted capacity slow-rate public access system. R-001 is a reuse system which consists of on-site irrigation at the plant, and within the approved Reuse Service Area, as shown on the attached map, and identified in Section IV of this permit

Reclaimed water is discharged into stormwater storage lake system(s) D-002 located at the Indian River Colony Club Golf Course. The reclaimed water is stored in an existing stormwater retention pond with a storage capacity of 4.5 million gallons, which has an intermittent discharge to adjacent drainage features (6-Mile Canal), which ultimately discharges to the St. Johns River. Discharge of reclaimed water to this stormwater retention pond shall be in accordance with Condition I.B. 12 of this permit.

Stormwater from the following sources may be introduced into the sanitary sewerage system to augment the supply of reclaimed water: The facility may introduce storm water from a retention pond into the collection system at the wet well of Lift Station W-09 (Silver Pines Subdivision).

Land Application R-002: An existing 2.5 MGD annual average daily flow permitted capacity slow-rate restricted public access system. R-002 is a reuse system which consists of Created Wetlands with 200± acres (163± total wetted acres) comprising four (4) cells and an interior lake. The detention time through this created wetland system is approximately 53 days, and is located approximately at latitude 28°13' 47" N, longitude 80°46' 18" W.

Monitoring Group D-001:

4-Mile Canal, Class III Fresh Waters

Pollutants which are present in significant quantities or which are subject to permit limitations are as follows (Data October 2018 through September 2020)(one discharge event in last two years - 19 days in 2020 due to heavy rains):

Parameter	Units	Max/Min	Reported Value	Statistical Basis
Flow	MGD	-	0.71	Annual Average
BOD, Carbonaceous 5 day, 20C	mg/L	-	5.15	Monthly Average
BOD, Carbonaceous 5 day, 20C	lb/mth	-	43	Monthly Total
Solids, Total Suspended	mg/L	-	1.58	Monthly Average
pH	s.u.	Max	7.99	Single sample
pH	s.u.	Min	6.52	Single sample
Nitrogen, Total	mg/L	-	2.1	Monthly average
Nitrogen, Kjeldahl, Total (as N)	mg/L	-	1.44	Monthly average
Nitrogen, Ammonia, Total (as N)	mg/L	-	0.19	Monthly average
Ammonia, Unionized (as NH3)	mg/L	-	0.01	Monthly average
Phosphorus, Total (as P)	mg/L	-	0.07	Monthly average
Phosphorus, Total (as P)	lb/mth	-	0.58	Monthly average
Oxygen, Dissolved (DO)	mg/L	Min	3.83	Single sample

2. SUMMARY OF SURFACE WATER DISCHARGE

This facility does not have a new or expanded discharge to surface waters.

The Department does not anticipate adverse impacts on threatened or endangered species as a result of permit issuance.

3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

This facility is authorized to discharge effluent from Outfall D-001 to 4-Mile Canal based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (Outfall D-001)	MGD	Max	0.990	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
		Max	Report	Daily Maximum	62-601.300(6) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	3.0	Annual Average	62-600.430. FAC
		Max	3.75	Monthly Average	62-600.740(1)(b) 2.b. FAC
		Max	4.5	Weekly Average	62-600.740(1)(b) 2.c. FAC
		Max	6.0	Single Sample	62-600.740(1)(b) 2.d. FAC
BOD, Carbonaceous 5 day, 20C	lb/yr	Max	2000	Single Sample	62-304.510(1)(a) FAC
BOD, Carbonaceous 5 day, 20C	lb/mth	Max	Report	Monthly Total	62-304.510(1)(a) FAC
Solids, Total Suspended	mg/L	Max	3.0	Annual Average	62-600.430. FAC
		Max	3.75	Monthly Average	62-600.740(1)(b) 2.b. FAC
		Max	4.5	Weekly Average	62-600.740(1)(b) 2.c. FAC
		Max	6.0	Single Sample	62-600.740(1)(b) 2.d. FAC
Coliform, Fecal	#/100mL	Max	Report	Weekly Average	62-611 FAC & 62-302 FAC
pH	s.u.	Min	6.5	Single Sample	62-302.530(52) FAC
		Max	8.0	Single Sample	62-302.530(52) FAC
Nitrogen, Total	mg/L	Max	2.0	Monthly Average	62-600.740(1)(b) 2.b. FAC
		Max	2.4	Weekly Average	62-600.740(1)(b) 2.c. FAC
		Max	3.2	Single Sample	62-600.740(1)(b) 2.d. FAC
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Monthly Average	62-302 FAC
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Monthly Average	62-302 FAC
Nitrogen, Ammonia, Total (as N) (Effluent)	mg/L	Max	Report	Monthly Average	62-302.530(7) FAC
Nitrogen, Ammonia, Total (as N) (calculated limit)	mg/L	Max	Report	Monthly Average	62-302.530(7) FAC
Nitrogen, Ammonia, Total (as N) (effluent minus calculated limit)	mg/L	Max	0.00	Monthly Average	62-302.530(7) FAC
Nitrogen, Ammonia, Total (as N)	mg/L	Max	2.5	Single Sample	62-302.530(7) FAC
Phosphorus, Total (as P)	mg/L	Max	0.2	Monthly Average	62-600.740(1)(b) 2.b. FAC
		Max	0.24	Weekly Average	62-600.740(2)(b) 3. FAC
		Max	0.32	Single Sample	62-600.740(2)(b) 4. FAC
Phosphorus, Total (as P)	lb/yr	Max	46	Single Sample	62-304.510(1)(a) FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Phosphorus, Total (as P)	lb/mth	Max	Report	Monthly Total	62-304.510(1)(a) FAC
Phosphate, Ortho (as P)	mg/L	Max	Report	Monthly Average	62-302 FAC
Sulfate, Total	mg/L	Max	Report	Monthly Average	62-302 FAC
Chloride (as Cl)	mg/L	Max	Report	Monthly Average	62-302 FAC
Alkalinity, Total (as CaCO ₃)	mg/L	Max	Report	Monthly Average	62-302 FAC
Specific Conductance	umhos/cm	Max	Report	Monthly Average	62-302 FAC
Temperature (C), Water	Deg C	Max	Report	Monthly Average	62-302 FAC
Oxygen, Dissolved (DO)	mg/L	Max	Report	Monthly Average	62-302 FAC
Water Level at samp. collection time	ft	Max	Report	Monthly Average	62-611.700(1) FAC

Because this is a discharge from a wetland, monitoring chlorine residual is not required in the permit for D-001 as in previous permits. The previous permit required 5 day per week monitoring of fecal coliform and reporting of the weekly average. Monitoring for E. Coli was not added to the permit since this is not a direct discharge with disinfection requirements.

Toxicity testing is not required for this discharge.

This facility is authorized to direct reclaimed water to Reuse System R-001, a slow-rate public access system, based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (Public access reuse)	MGD	Max	8.2	Annual Average	62-600.700(2)(b) & 62-610.810(5) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) & 62-610.810(5) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.460 & 62-600.420(3)(a)1. FAC
		Max	30.0	Monthly Average	62-610.460 & 62-600.420(3)(a)2. FAC
		Max	45.0	Weekly Average	62-610.460 & 62-600.420(3)(a)3. FAC
		Max	60.0	Single Sample	62-610.460 & 62-600.420(3)(a)4. FAC
		Max	20.0	Annual Average	62-610.460 & 62-600.420(3)(a)1. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	30.0	Monthly Average	62-610.460 & 62-600.420(3)(a)2. FAC
		Max	45.0	Weekly Average	62-610.460 & 62-600.420(3)(a)3. FAC
		Max	60.0	Single Sample	62-610.460 & 62-600.420(3)(a)4. FAC
		Max	5.0	Single Sample	62-610.460(1) & 62-600.440(6)(a)3. FAC
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	62-610.460(1) & 62-600.440(6)(a)3. FAC
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	62-610.460(1) & 62-600.440(6)(a)3. FAC
Coliform, Fecal	#/100mL	Max	25	Single Sample	62-610.460 & 62-600.440(6)(a)2. FAC
Coliform, Fecal	#/100mL	Max	25	Single Sample	62-610.460 & 62-600.440(6)(a)2. FAC
Coliform, Fecal, % less than detection	percent	Min	75	Minimum Total	62-610.460 & 62-600.440(6)(a)1. FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Coliform, Fecal, % less than detection	percent	Min	75	Minimum Total	62-610.460 & 62-600.440(6)(a)1. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	62-600.440(6)(b), 62-610.460(2), & 62-610.463(2) FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	62-600.440(6)(b), 62-610.460(2), & 62-610.463(2) FAC
Turbidity	NTU	Max	Report	Single Sample	62-610.463(2) FAC
Turbidity	NTU	Max	Report	Single Sample	62-610.463(2) FAC
Giardia	cysts/100L	Max	Report	Single Sample	62-610.463(4) FAC
Giardia	cysts/100L	Max	Report	Single Sample	62-610.463(4) FAC
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	62-610.463(4) FAC
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	62-610.463(4) FAC
Nitrogen, Total*	mg/L	Max	10.0	Annual Average	FDEP Final Order 21-0082
		Max	Report	Monthly Average	FDEP Final Order 21-0082
Nitrogen, Total*	mg/L	Max	10.0	Annual Average	FDEP Final Order 21-0082
		Max	Report	Monthly Average	FDEP Final Order 21-0082
Phosphorus, Total (as P) *	mg/L	Max	6.0	Annual Average	62-600.650(3) FAC
		Max	Report	Monthly Average	62-600.650(3) FAC
Phosphorus, Total (as P) *	mg/L	Max	6.0	Annual Average	62-600.650(3) FAC
		Max	Report	Monthly Average	62-600.650(3) FAC
Flow (Baytree Golf Course Pond)	MGD	Max	Report	Annual Average	62-600.400(3)(b) FAC
		Max	Report	Monthly Average	62-600.400(3)(b) FAC
Flow (Viera Golf Course Pond)	MGD	Max	Report	Annual Average	62-600.400(3)(b) FAC
		Max	Report	Monthly Average	62-600.400(3)(b) FAC
Flow (Indian River Colony Club)	MGD	Max	Report	Annual Average	62-600.400(3)(b) FAC
		Max	Report	Monthly Average	62-600.400(3)(b) FAC
Flow (Duran Golf Course)	MGD	Max	Report	Annual Average	62-600.400(3)(b) FAC
		Max	Report	Monthly Average	62-600.400(3)(b) FAC

*The Department adopted a Basin Management Action Plan (BMAP) for the Indian River North BMAP on February 17, 2021. This permit has been revised to include an annual average limit of 10.0 mg/l of Total Nitrogen and 6.0 mg/l of Total Phosphorus in the reclaimed water. [FDEP Final Order 21-0082]

This facility is authorized to direct reclaimed water to Reuse System R-002, a slow-rate/restricted public access system, based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (wetlands)	MGD	Max	2.5	Annual Average	62-600.700(2)(b) & 62-610.810(5) FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
		Max	Report	Monthly Average	62-600.700(2)(b) & 62-610.810(5) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	5.0	Annual Average	BPJ
		Max	6.25	Monthly Average	62-600.740(1)(b) 1.b. FAC
		Max	7.5	Weekly Average	62-610.410 & 62-600.420(3)(a)3. FAC
		Max	10.0	Single Sample	62-610.410 & 62-600.420(3)(a)4. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	5.0	Annual Average	BPJ
		Max	6.25	Monthly Average	62-600.740(1)(b) 1.b. FAC
		Max	7.5	Weekly Average	62-610.410 & 62-600.420(3)(a)3. FAC
		Max	10.0	Single Sample	62-610.410 & 62-600.420(3)(a)4. FAC
Solids, Total Suspended	mg/L	Max	5.0	Annual Average	BPJ
		Max	6.25	Monthly Average	62-610.410 & 62-600.420(3)(b)2. FAC
		Max	7.5	Weekly Average	62-610.410 & 62-600.420(3)(b)3. FAC
		Max	10.0	Single Sample	62-610.410 & 62-600.420(3)(b)4. FAC
Solids, Total Suspended	mg/L	Max	5.0	Annual Average	BPJ
		Max	6.25	Monthly Average	62-610.410 & 62-600.420(3)(b)2. FAC
		Max	7.5	Weekly Average	62-610.410 & 62-600.420(3)(b)3. FAC
		Max	10.0	Single Sample	62-610.410 & 62-600.420(3)(b)4. FAC
Coliform, Fecal	#/100mL	Max	200	Monthly Geometric Mean	62-610.410 & 62-600.440(5)(a)2. FAC
		Max	200	Annual Average	62-610.410 & 62-600.440(5)(a)1. FAC
		Max	800	Single Sample	62-610.410 & 62-600.440(5)(a)4. FAC
Coliform, Fecal	#/100mL	Max	200	Monthly Geometric Mean	62-610.410 & 62-600.440(5)(a)2. FAC
		Max	200	Annual Average	62-610.410 & 62-600.440(5)(a)1. FAC
		Max	800	Single Sample	62-610.410 & 62-600.440(5)(a)4. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	62-600.510 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	62-600.510 FAC
Nitrogen, Total	mg/L	Max	6.0	Annual Average	BPJ
		Max	7.5	Monthly Average	62-600.740(1)(b) 2.b. FAC
		Max	9.0	Weekly Average	62-600.740(1)(b) 2.c. FAC
		Max	12.0	Single Sample	62-600.740(1)(b) 2.d. FAC
Nitrogen, Total	mg/L	Max	6.0	Annual Average	BPJ
		Max	7.5	Monthly Average	62-600.740(1)(b) 2.b. FAC
		Max	9.0	Weekly Average	62-600.740(1)(b) 2.c. FAC
		Max	12.0	Single Sample	62-600.740(1)(b) 2.d. FAC
Phosphorus, Total (as P)	mg/L	Max	0.75	Annual Average	BPJ
		Max	0.94	Monthly Average	62-600.740(1)(b) 2.b. FAC
		Max	1.125	Weekly Average	62-600.740(1)(b) 2.c. FAC
		Max	1.5	Single Sample	62-600.740(1)(b) 2.d. FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Phosphorus, Total (as P)	mg/L	Max	0.75	Annual Average	BPJ
		Max	0.94	Monthly Average	62-600.740(1)(b) 2.b. FAC
		Max	1.125	Weekly Average	62-600.740(1)(b) 2.c. FAC
		Max	1.5	Single Sample	62-600.740(1)(b) 2.d. FAC
Flow	MGD	Max	Report	Annual Average	62-600.700(2)(b) & 62-610.810(5) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) & 62-610.810(5) FAC

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (Total Through Plant)	MGD	Max	12.0	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
		Max	Report	3-Month Rolling Average	62-600.700(2)(b) FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	62-600.405(4) FAC
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC
Rainfall	in	Max	Report	Single Sample	BPJ
Monitoring Frequencies and Sample Types	-	-	-	All Parameters	62-600 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Locations	-	-	-	All Parameters	62-600, 62-610.412, 62-610.463(1), 62-610.568, 62-610.613 FAC and/or BPJ of permit writer

4. IMPAIRMENT STATUS OF RECEIVING WATERS

Under Section 303(d) of the Clean Water Act, the Department is required to submit lists of impaired waters to EPA. The direct receiving water bodies for this facility's discharge to surface waters are not listed on the 303(d) list.

5. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FL0102679-012-DW1P issued April 08, 2016 and expires on May 4, 2021. Permit revision FL0102679-013 was to allow expansion of the treatment facility (not discharge) and rolled into the renewal FL0102679-012. Permit revision FL0102679-014 issued September 15, 2016 was to allow the introduction of supplemental stormwater into the collection system. Permit revision FL0102679-015 issued October 18, 2016 was to require electronic submittal of discharge monitoring reports through EZDMR. Permit revision FL0102679-016 issued February 7, 2018 was to modify the expansion construction schedule in the permit. Permit revision FL0102679-017 issued July 21, 2020 was to allow construction of offsite force main to tie into the influent force main. The new wastewater permit for this facility FL0102679-018-DW1P expires on July 11, 2026.

The Department adopted a Basin Management Action Plan (BMAP) for the Indian River North BMAP on February 17, 2021. This permit has been revised to include an annual average limit of 10.0 mg/l of Total Nitrogen and 6.0 mg/l of Total Phosphorus in the reclaimed water. [FDEP Final Order 21-0082]

The facility had previously requested a reduction in the existing discharge to less than 1.0 MGD AADF permitted capacity. The facility is not required to have an industrial pretreatment program and the facility has been reclassified as a minor discharger.

The limit for unionized ammonia water quality criteria has been replaced with total ammonia nitrogen (TAN) criterion for fresh water. (62-302.530(7) FAC)

For the public access reuse system (R-001), TSS and fecal coliform sampling is reduced to 4 days/week in accordance with Rule 62-600.660(1), footnote 4 FAC.

For the public access reuse system (R-001), CBOD₅ sampling is 5 days/week in accordance with the previous permit, rule 62-600.650(3) FAC, and BPJ.

Historical:

The WQBEL's for discharge to this section of the St. Johns River for CBOD₅, TSS, Total Nitrogen (TN) and Total Phosphorus (TP) (3.0, 3.0, 1.6, 0.16 mg/L, respectively), were established by the Department during the issuance of State Permit DC05-252530 for the construction of the Titusville/South/Blue Heron created wetlands system (issued on October 4, 1994). The effluent limitations for nutrients for that facility were established based on background levels observed in the Upper St. Johns River.

Since the BCUD South Central created wetland system also discharges to the Upper St. Johns River, the Titusville/South/Blue Heron created wetlands system effluent limitations referenced in the paragraph above were also appropriate for this created wetland discharge. Rule 62-620.620(2)(d)(2), FAC, required that annual, monthly, weekly and single sample concentration limits be stated in the permit, with the additional effluent limitations created using the multipliers in Rule 62-600.740(1)(b)2. (a, b, c and d), FAC., but due to the consistent reductions in discharge, revisions were made to omit the annual average limits. Color is omitted from the permit because there is no numeric criterion. The WQBEL for TP is replaced by the wasteload allocation in the Total Maximum Daily Load, *as described below*. The TN limits are retained and provide reasonable assurance that the discharge will not cause or contribute to exceedances of the Numeric Nutrient Criteria (NNC) in the receiving or downstream waters.

The Total Maximum Daily Load (TMDL) for various lakes in the Upper St. Johns River has been finalized by the Department. It recommends that this facility keep its current discharge loadings; no load reduction is required. As stated in the TMDL documentation, "The TMDL includes a waste load allocation (WLA) of 0.023 tons/year for Total Phosphorus (TP) and 1.0 ton BOD/year. These were the highest loads produced by this facility based on data from 2001 to 2004." These annual load limits are retained in this permit, along with a monthly reporting requirement. The TMDL for USJR adopted by DEP is a site specific NNC for TP under 62-302.531(2)(a), FAC, and protects downstream waters as required by 62-302.531, FAC.

Because of the limited discharge during this permit cycle, there has been only one scan of the priority pollutants listed in the "Expanded Effluent Testing" section of the permit application, Form 2A. The facility has requested a reduction in the permitted capacity of the discharge to less than 1 MGD AADF, and does not have a pretreatment program, therefore, no additional testing of the effluent shall be required.

The Water Quality Based Effluent Limitation (WQBEL) Level I Analysis was performed for this permit renewal to ensure the discharge will not adversely impact the receiving water body. The created wetland system serves as a back-up discharge mechanism for the County's extensive public access reuse system. As stated in the application package, "discharge from the wetlands will occur primarily during periods of sustained wet weather." During these periods, river flows will be high and the detention time for the riverine lakes will be low. Under these conditions, the impacts of the nutrient loadings will be at their minimum."

The reclaimed water discharged from the created wetland shall be sampled for 48-hour dissolved oxygen water level at sample collection time and temperature (at four hour intervals from dawn to dusk) on a monthly basis when there is a discharge. The new DO criteria for % DO saturation has not been incorporated because the discharge from the wetland is very intermittent and development of a limit is not needed to provide reasonable assurance to protect the receiving water.

Monitoring for total chlorine residual for dechlorination is no longer included because the effluent is naturally dechlorinated due to the long detention time (approximately 53 days) in the created wetlands system and underlying soils.

6. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be disposed of in a Class I solid waste landfill.

See the table below for the rationale for the biosolids quantities monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Biosolids Quantity (Received)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Monitoring Frequency	All Parameters				62-640.650(5)(a) FAC

7. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring requirements have been established in accordance with Chapters 62-520, 532, 600, 610, and 620, F.A.C.

8. PERMIT SCHEDULES

See permit.

9. INDUSTRIAL PRETREATMENT REQUIREMENTS

At this time, the facility is not required to develop an approved industrial pretreatment program. However, the Department reserves the right to require an approved program if future conditions warrant.

10. ADMINISTRATIVE ORDERS (AO) AND CONSENT ORDERS (CO)

This permit is accompanied by CO OGC#21-0180, effective March 25, 2021, which includes a schedule of compliance. The consent order is to address issues with the effluent discharge. The CO is hereby incorporated by reference.

11. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

12. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection at this link to the Department's online document storage system:

[https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=hitlist&\[freeText=\]&\[folderName=\]&\[profile=Permitting_Authorization\]&\[creator=\]&\[entityType=any\]&\[createdDateTo=\]&\[catalog=38\]&\[searchBy=Profile\]&\[sortBy=Document+Date\]&\[createdDate=\]&{County= EQ_BREVARD}&{District= EQ_CD}&{Facility-Site+ID= EQ_FL0102679}&{Received+Date= RG_\(11-01-2020,04-01-2022\)}&{Permit+Type= EQ_DW+-DOMESTIC+WASTEWATER+FACILITY}&{Facility+Type= LK_DOMESTIC+WASTEWATER}](https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=hitlist&[freeText=]&[folderName=]&[profile=Permitting_Authorization]&[creator=]&[entityType=any]&[createdDateTo=]&[catalog=38]&[searchBy=Profile]&[sortBy=Document+Date]&[createdDate=]&{County= EQ_BREVARD}&{District= EQ_CD}&{Facility-Site+ID= EQ_FL0102679}&{Received+Date= RG_(11-01-2020,04-01-2022)}&{Permit+Type= EQ_DW+-DOMESTIC+WASTEWATER+FACILITY}&{Facility+Type= LK_DOMESTIC+WASTEWATER})

13. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft Permit and Public Notice to Applicant and EPA	May 14, 2021
Notice of Intent to Issue	June 22, 2021
Notice of Permit Issuance	July 12, 2021

14. DEP CONTACT

Additional information concerning the permit and proposed schedule for permit issuance may be obtained during normal business hours from:

Charles LeGros
Environmental Consultant
Charles.legros@dep.state.fl.us
Central District Office

3319 Maguire Blvd
Suite 232
Orlando, FL 32803-3767

Telephone No.: (407) 897-4158

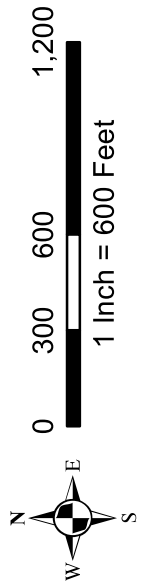




Aerial 2020

Date: 2/12/2021

Brevard County South Central Surface Water Discharge



This page intentionally left blank



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

New Business - Development and Environmental Services Group

J.3.

10/12/2021

Subject:

Legislative Intent and Permission to Advertise Amendments to Chapter 46 of the Brevard County Code, creating a new article, Article XI, entitled Landscape Irrigation

Fiscal Impact:

None, unless directed to pursue pro-active enforcement

Dept/Office:

Natural Resources Management Department

Requested Action:

Board consideration of options and for the selected option, approve legislative intent and permission to advertise amendments to create a new article in Chapter 46 of the Brevard County Code, Article XI, entitled Landscape Irrigation

Summary Explanation and Background:

On January 12, 2021, the St. Johns River Water Management District Governing Board approved updates to their Districtwide Cost-Share Program. These updates included a new requirement that to be eligible for District Cost-Share grants, municipalities and counties must have a landscape irrigation ordinance that is consistent with the District's model ordinance. Currently, District grants provide up to 25% of construction-only costs for shovel-ready projects.

Excess irrigation wastes freshwater and carries pollution to sensitive waterways including the Indian River Lagoon. To discourage excess irrigation, the District has established watering schedules based on time of year and street address. For example, during Daylight Savings Time, residential landscape irrigation at odd numbered addresses or no address may occur only on Wednesday and Saturday, while irrigation at even numbered addresses may occur only on Thursday and Sunday. During Eastern Standard Time, residential landscape irrigation at odd numbered addresses or no address may occur only on Saturday, while irrigation at even numbered addresses may occur only on Sunday. Year-round, irrigation shall not occur between 10:00 and 4:00.

For enforcement, the District recommends a written warning for first violations, a \$25 penalty for second violations, and subsequent fines not to exceed \$50 per day of violation. However, in July the District's Office of General Counsel determined that adoption of the model ordinance sections related to enforcement and penalties are optional.

Adopting the watering schedules could provide a beneficial opportunity for local outreach on the importance of water conservation and pollution control. Additionally, including the watering restrictions within the

County Code may make the rules easier for people to find than having to search the Florida Administrative Code.

Options for Board Consideration: Approve legislative intent and permission to advertise amendments to Chapter 46 of the Brevard County Code, creating a new article, Article XI, entitled Landscape Irrigation, as follows:

- **Option 1:** With enforcement provisions delegated to Brevard County Code Enforcement and law enforcement entities having jurisdiction.
- **Option 2:** Without enforcement provisions, leaving enforcement to the District.
- **Option 3:** Take no action and forego future District Cost-Share funding opportunities.
- **Option 4:** Other Board direction.

Clerk to the Board Instructions:

None.

ORDINANCE NO. 21-_____

AN ORDINANCE OF THE BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA, CREATING A NEW ARTICLE IN CHAPTER 46 OF THE BREVARD COUNTY CODE OF ORDINANCES; SPECIFICALLY CREATING CHAPTER 46, ARTICLE XI, ENTITLED “LANDSCAPE IRRIGATION”; PROVIDING FOR LOCAL IMPLEMENTATION OF THE WATER CONSERVATION RULE FOR LANDSCAPE IRRIGATION OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT; PROVIDING FOR DEFINITIONS; PROVIDING FOR LANDSCAPE IRRIGATION SCHEDULES; PROVIDING EXCEPTIONS TO THE LANDSCAPE IRRIGATION SCHEDULES; PROVIDING FOR VARIANCES FROM THE SPECIFIC DAY OF THE WEEK LIMITATIONS; PROVIDING FOR APPLICABILITY OF THE ORDINANCE; PROVIDING FOR ENFORCEMENT OF THE ORDINANCE; PROVIDING FOR PENALTIES FOR VIOLATION OF THE ORDINANCE; PROVIDING FOR AN AREA ENCOMPASSED; PROVIDING FOR INCLUSION IN THE CODE; PROVIDING FOR CONFLICTING PROVISIONS; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the St. Johns River Water Management District has responsibility and exclusive authority under Chapter 373, Florida Statutes, for regulating the consumptive use of water; and

WHEREAS, the St. Johns River Water Management District has amended Rule 40C-2.042, F.A.C., its General Consumptive Use Permit by Rule that regulates small irrigation uses below consumptive use permit thresholds in Rule 40C-2.041(1), F.A.C.; and

WHEREAS, Rule 40C-2.042(2)(a), F.A.C., grants a general permit to each person located within the District to use, withdraw or divert water for small landscape irrigation uses, provided that irrigation occurs in accordance with Sections 3 and 5, subject to the exceptions set forth in Section 4; and

WHEREAS, Rule 40C-2.042, F.A.C., applies to landscape irrigation regardless of whether the water comes from ground or surface water, from a private well or pump, or from a public or private utility; and

WHEREAS, Rule 40C-2.042(2)(b), F.A.C., strongly encourages a local government to adopt an ordinance to enforce Rule 40C-2.042(2)(a), F.A.C., within its jurisdiction by adopting a landscape irrigation ordinance that incorporates each of the provisions set forth in Rule 40C-2.042(2)(a), F.A.C.; and

WHEREAS, the St. Johns River Water Management District’s Districtwide Cost-

Share Program requires local governments to adopt an ordinance pertaining to landscape irrigation consistent with the District's model irrigation ordinance in order to be eligible for grant funds; and

WHEREAS, it is the desire of the Board of County Commissioners of Brevard County, Florida, to adopt such an ordinance in accordance with Rules 40C-2.042(2)(a) and (b), F.A.C.; and

WHEREAS, the Board hereby finds and declares that the adoption of this ordinance is appropriate, and in the public interest of the citizens of this community.

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY FLORIDA, AS FOLLOWS

Section 1. Recitals. The foregoing recitals are incorporated by reference into this Ordinance.

Section 2. Landscape Irrigation Regulations. Chapter 46, Article XI of the Brevard County Code, entitled "Landscape Irrigation", is hereby created to read as follows:

CHAPTER 46, ARTICLE XI – LANDSCAPE IRRIGATION

Section 46-402. Intent and Purpose

It is the intent and purpose of this Ordinance to implement procedures that promote water conservation through the more efficient use of landscape irrigation.

Section 46-403. Definitions

For the purpose of this Article the following terms, phrases, words and their derivatives shall have the meaning given herein. When not inconsistent with the context, words used in the present tense include the future, words in the plural include the singular, and words in the singular include the plural.

(a) "Address" means the house number of a physical location of a specific property. This includes "rural route" numbers but excludes post office box numbers. If a lot number in a mobile home park or similar community is used by the U.S. Postal Service to determine a delivery location, the lot number shall be the property's address. An "even numbered address" means an address ending in the numbers 0, 2, 4, 6, 8 or the letters A-M. An "odd numbered address" means an address ending in the numbers 1, 3, 5, 7, 9 or the letters N-Z.

(b) "District" means the St. Johns River Water Management District.

- (c) "Person" means any person, firm, partnership, association, corporation, company, or organization of any kind.
- (d) "Landscape irrigation" means the outside watering of plants in a landscape such as shrubbery, trees, lawns, grass, ground covers, plants, vines, gardens and other such flora that are situated in such diverse locations as residential areas, public, commercial, and industrial establishments, and public medians and rights-of-way. "Landscape irrigation" does not include agricultural crops, nursery plants, cemeteries, golf course greens, tees, fairways, primary roughs, and vegetation associated with intensive recreational areas such as playgrounds, football, baseball and soccer fields.
- (e) "Residential landscape irrigation" means the irrigation of landscape associated with any housing unit having sanitary and kitchen facilities designed to accommodate one or more residents, including multiple housing units and mobile homes.
- (f) "Non-residential landscape irrigation" means the irrigation of landscape not included within the definition of "residential landscape irrigation," such as that associated with public, commercial and industrial property, including commercial or transient housing units, hotel and motel units, and public medians and rights-of-way.

Section 46-404. Landscape Irrigation Schedules

1. When Daylight Savings Time is in effect, landscape irrigation shall occur only in accordance with the following irrigation schedule:
 - a. Residential landscape irrigation at odd numbered addresses or no address may occur only on Wednesday and Saturday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
 - b. Residential landscape irrigation at even numbered addresses may occur only on Thursday and Sunday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
 - c. Non-residential landscape irrigation may occur only on Tuesday and Friday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
 - d. No more than $\frac{3}{4}$ inch of water may be applied per irrigation zone on each day that irrigation occurs, and in no event shall irrigation occur for more than 1 hour per irrigation zone on each day that irrigation occurs.
2. When Eastern Standard Time is in effect, landscape irrigation shall occur only

in accordance with the following irrigation schedule:

- a. Residential landscape irrigation at odd numbered addresses or no address may occur only on Saturday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
 - b. Residential landscape irrigation at even numbered addresses may occur only on Sunday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
 - c. Non-residential landscape irrigation may occur only on Tuesday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
 - d. No more than $\frac{3}{4}$ inch of water may be applied per irrigation zone on each day that irrigation occurs, and in no event shall irrigation occur for more than 1 hour per irrigation zone on each day that irrigation occurs.
3. All landscape irrigation shall be limited to only that necessary to meet landscape needs.

Section 46-405. Exceptions to the Landscape Irrigation Schedules

Landscape irrigation shall be subject to the following irrigation schedule exceptions:

1. Irrigation using a micro-spray, micro-jet, drip or bubbler irrigation system is allowed anytime.
2. Irrigation of new landscape is allowed at any time of day on any day for the initial 30 days and every other day for the next 30 days for a total of one 60-day period, provided that the irrigation is limited to the minimum amount necessary for such landscape establishment.
3. Watering in of chemicals, including insecticides, pesticides, fertilizers, fungicides, and herbicides, when required by law, the manufacturer, or best management practices, is allowed at any time of day on any day within 24 hours of application. Watering in of chemicals shall not exceed $\frac{1}{4}$ inch of water per application except as otherwise required by law, the manufacturer, or best management practices.
4. Irrigation systems may be operated at any time of day on any day for maintenance and repair purposes not to exceed 20 minutes per hour per zone.
5. Irrigation using a hand-held hose equipped with an automatic shut-off nozzle is allowed at any time of day on any day.

6. Discharge of water from a water-to-air air-conditioning unit or other water-dependent cooling system is not limited.

7. The use of water from a reclaimed water system is allowed anytime. For the purpose of this paragraph, a reclaimed water system includes systems in which the primary source is reclaimed water, which may or may not be supplemented from another source during peak demand periods.

8. The use of recycled water from wet detention treatment ponds for irrigation is allowed anytime provided the ponds are not augmented from any ground or off-site surface water, or public supply sources.

Section 46-406. Additional Requirement

Any person who purchases and installs an automatic landscape irrigation system must properly install, maintain, and operate technology that inhibits or interrupts operation of the system during periods of sufficient moisture.

Section 46-407. Variance from Specific Day of the Week Limitations

After receiving a notice of violation from an agency having jurisdiction, a variance from the specific landscape irrigation days or day set forth in Section 3 may be granted if strict application of the scheduled days or day would lead to unreasonable or unfair results in particular instances, provided that the applicant demonstrates with particularity that compliance with the scheduled days or day will result in a substantial economic, health or other hardship on the applicant requesting the variance or those served by the applicant. Where a contiguous property is divided into different zones, a variance may be granted hereunder so that each zone may be irrigated on different days or day than other zones of the property. However, in no event shall a variance allow a single zone to be irrigated more than two days per week during Daylight Savings Time or more than one day per week during Eastern Standard Time

Section 46-408. Application of Article

The provisions of this Article shall apply throughout the County except in municipalities that have adopted an ordinance(s) regulating the subject matter addressed herein.

Section 46-409. Enforcement Officials

Law enforcement officials having jurisdiction in the area governed by this Article are hereby authorized to enforce the provisions of this Article. Brevard County Code Enforcement is also delegated enforcement responsibility for enforcing this Article.

Section 46-410. Penalties

First violation	Written Warning
Second violation	\$25.00
Subsequent violations	Fine not to exceed \$50.00

Each day in violation of this Article shall constitute a separate offense. Enforcement officials shall provide violators with no more than one written warning. In addition to the civil sanctions contained herein, the County may take any other appropriate legal action, including, but not limited to, prosecuting a violation in accordance with Section 1-7 of the Brevard County Code.

Section 3. Area Encompassed. This Ordinance shall apply County-wide except in municipalities that have adopted an ordinance regulating the subject matter addressed herein.

Section 4. Inclusion in Code. It is the intention of the Board that the provisions of this Ordinance shall become and be made part of the Brevard County Code of Ordinances, and that the sections of this Ordinance may be renumbered or re-lettered and that the word "Ordinance" may be changed to "Chapter," "Section," "Article," or such other appropriate word or phrase in order to accomplish such intentions.

Section 5. Conflict. In the case of a direct conflict between any provision of this Ordinance and a provision of County law, rule, or regulation, the more restrictive shall apply.

Section 6. Severability. If any provision of this Ordinance or application thereof to any person or circumstance is held invalid, the invalidity shall not affect other provisions or applications of this Ordinance which can be given effect without the invalid provision or application, and to this end the provisions of this Ordinance are declared severable.

Section 7. Effective Date. A certified copy of this ordinance shall be filed with the Office of the Secretary of State, State of Florida within ten (10) days of enactment. Unless specified otherwise, this Ordinance shall take effect upon adoption and filing as required by law.

DONE, ORDERED AND ADOPTED, in Regular Session, this _____ day of _____, 2021.

ATTEST:

BOARD OF COUNTY COMMISSIONERS
BREVARD COUNTY, FLORIDA

Rachel M. Sadoff, Clerk
(SEAL)

Rita Pritchett, Chair

As approved by the Board on _____

ORDINANCE NO. 21-____

AN ORDINANCE OF THE BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY, FLORIDA, CREATING A NEW ARTICLE IN CHAPTER 46 OF THE BREVARD COUNTY CODE OF ORDINANCES; SPECIFICALLY CREATING CHAPTER 46, ARTICLE XI, ENTITLED “LANDSCAPE IRRIGATION”; PROVIDING FOR INCLUSION OF THE WATER CONSERVATION RULE FOR LANDSCAPE IRRIGATION OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT IN THE BREVARD COUNTY CODE; PROVIDING FOR DEFINITIONS; PROVIDING FOR LANDSCAPE IRRIGATION SCHEDULES; PROVIDING EXCEPTIONS TO THE LANDSCAPE IRRIGATION SCHEDULES; PROVIDING FOR VARIANCES FROM THE SPECIFIC DAY OF THE WEEK LIMITATIONS; PROVIDING FOR AN AREA ENCOMPASSED; PROVIDING FOR INCLUSION IN THE CODE; PROVIDING FOR CONFLICTING PROVISIONS; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the St. Johns River Water Management District has responsibility and exclusive authority under Chapter 373, Florida Statutes, for regulating the consumptive use of water; and

WHEREAS, the St. Johns River Water Management District has amended Rule 40C-2.042, F.A.C., its General Consumptive Use Permit by Rule that regulates small irrigation uses below consumptive use permit thresholds in Rule 40C-2.041(1), F.A.C.; and

WHEREAS, Rule 40C-2.042(2)(a), F.A.C., grants a general permit to each person located within the District to use, withdraw or divert water for small landscape irrigation uses, provided that irrigation occurs subject to the rules and regulations outlined in Chapter 40C, F.A.C., and this ordinance; and

WHEREAS, Rule 40C-2.042, F.A.C., applies to landscape irrigation regardless of whether the water comes from ground or surface water, from a private well or pump, or from a public or private utility; and

WHEREAS, Rule 40C-2.042(2)(b), F.A.C., strongly encourages a local government to adopt an ordinance pertaining to landscape irrigation that incorporates the provisions set forth in Rule 40C-2.042(2)(a), F.A.C.; and

WHEREAS, the St. Johns River Water Management District’s Districtwide Cost-Share Program requires local governments to adopt an ordinance pertaining to landscape irrigation consistent with the District’s model irrigation ordinance in order to be eligible for grant funds; and

WHEREAS, it is the desire of the Board of County Commissioners of Brevard County, Florida, to adopt such an ordinance; and

WHEREAS, the Board hereby finds and declares that the adoption of this ordinance is appropriate, and in the public interest of the citizens of this community.

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF BREVARD COUNTY FLORIDA, AS FOLLOWS

Section 1. Recitals. The foregoing recitals are incorporated by reference into this Ordinance.

Section 2. Landscape Irrigation Regulations. Chapter 46, Article XI of the Brevard County Code, entitled "Landscape Irrigation", is hereby created to read as follows:

CHAPTER 46, ARTICLE XI – LANDSCAPE IRRIGATION

Section 46-402. Intent and Purpose

It is the intent and purpose of this Ordinance to implement procedures that promote water conservation through the more efficient use of landscape irrigation.

Section 46-403. Definitions

For the purpose of this Article the following terms, phrases, words and their derivatives shall have the meaning given herein. When not inconsistent with the context, words used in the present tense include the future, words in the plural include the singular, and words in the singular include the plural.

- (a) "Address" means the house number of a physical location of a specific property. This includes "rural route" numbers but excludes post office box numbers. If a lot number in a mobile home park or similar community is used by the U.S. Postal Service to determine a delivery location, the lot number shall be the property's address. An "even numbered address" means an address ending in the numbers 0, 2, 4, 6, 8 or the letters A-M. An "odd numbered address" means an address ending in the numbers 1, 3, 5, 7, 9 or the letters N-Z.
- (b) "District" means the St. Johns River Water Management District.
- (c) "Person" means any person, firm, partnership, association, corporation, company, or organization of any kind.
- (d) "Landscape irrigation" means the outside watering of plants in a

landscape such as shrubbery, trees, lawns, grass, ground covers, plants, vines, gardens and other such flora that are situated in such diverse locations as residential areas, public, commercial, and industrial establishments, and public medians and rights-of-way. "Landscape irrigation" does not include agricultural crops, nursery plants, cemeteries, golf course greens, tees, fairways, primary roughs, and vegetation associated with intensive recreational areas such as playgrounds, football, baseball and soccer fields.

- (e) "Residential landscape irrigation" means the irrigation of landscape associated with any housing unit having sanitary and kitchen facilities designed to accommodate one or more residents, including multiple housing units and mobile homes.
- (f) "Non-residential landscape irrigation" means the irrigation of landscape not included within the definition of "residential landscape irrigation," such as that associated with public, commercial and industrial property, including commercial or transient housing units, hotel and motel units, and public medians and rights-of-way.

Section 46-404. Landscape Irrigation Schedules

1. When Daylight Savings Time is in effect, landscape irrigation shall occur only in accordance with the following irrigation schedule:

- a. Residential landscape irrigation at odd numbered addresses or no address may occur only on Wednesday and Saturday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
- b. Residential landscape irrigation at even numbered addresses may occur only on Thursday and Sunday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
- c. Non-residential landscape irrigation may occur only on Tuesday and Friday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
- d. No more than $\frac{3}{4}$ inch of water may be applied per irrigation zone on each day that irrigation occurs, and in no event shall irrigation occur for more than 1 hour per irrigation zone on each day that irrigation occurs.

2. When Eastern Standard Time is in effect, landscape irrigation shall occur only in accordance with the following irrigation schedule:

- a. Residential landscape irrigation at odd numbered addresses or no address may occur only on Saturday and shall not occur between 10:00 a.m. and 4:00 p.m.; and

- b. Residential landscape irrigation at even numbered addresses may occur only on Sunday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
 - c. Non-residential landscape irrigation may occur only on Tuesday and shall not occur between 10:00 a.m. and 4:00 p.m.; and
 - d. No more than $\frac{3}{4}$ inch of water may be applied per irrigation zone on each day that irrigation occurs, and in no event shall irrigation occur for more than 1 hour per irrigation zone on each day that irrigation occurs.
3. All landscape irrigation shall be limited to only that necessary to meet landscape needs.

Section 46-405. Exceptions to the Landscape Irrigation Schedules

Landscape irrigation shall be subject to the following irrigation schedule exceptions:

- 1. Irrigation using a micro-spray, micro-jet, drip or bubbler irrigation system is allowed anytime.
- 2. Irrigation of new landscape is allowed at any time of day on any day for the initial 30 days and every other day for the next 30 days for a total of one 60-day period, provided that the irrigation is limited to the minimum amount necessary for such landscape establishment.
- 3. Watering in of chemicals, including insecticides, pesticides, fertilizers, fungicides, and herbicides, when required by law, the manufacturer, or best management practices, is allowed at any time of day on any day within 24 hours of application. Watering in of chemicals shall not exceed $\frac{1}{4}$ inch of water per application except as otherwise required by law, the manufacturer, or best management practices.
- 4. Irrigation systems may be operated at any time of day on any day for maintenance and repair purposes not to exceed 20 minutes per hour per zone.
- 5. Irrigation using a hand-held hose equipped with an automatic shut-off nozzle is allowed at any time of day on any day.
- 6. Discharge of water from a water-to-air air-conditioning unit or other water-dependent cooling system is not limited.
- 7. The use of water from a reclaimed water system is allowed anytime. For the purpose of this paragraph, a reclaimed water system includes systems in which the

primary source is reclaimed water, which may or may not be supplemented from another source during peak demand periods.

8. The use of recycled water from wet detention treatment ponds for irrigation is allowed anytime provided the ponds are not augmented from any ground or off-site surface water, or public supply sources.

Section 46-406. Additional Requirement

Any person who purchases and installs an automatic landscape irrigation system must properly install, maintain, and operate technology that inhibits or interrupts operation of the system during periods of sufficient moisture.

Section 46-407. Variance from Specific Day of the Week Limitations

After receiving a notice of violation from an agency having jurisdiction, a variance from the specific landscape irrigation days or day set forth in Section 3 may be granted if strict application of the scheduled days or day would lead to unreasonable or unfair results in particular instances, provided that the applicant demonstrates with particularity that compliance with the scheduled days or day will result in a substantial economic, health or other hardship on the applicant requesting the variance or those served by the applicant. Where a contiguous property is divided into different zones, a variance may be granted hereunder so that each zone may be irrigated on different days or day than other zones of the property. However, in no event shall a variance allow a single zone to be irrigated more than two days per week during Daylight Savings Time or more than one day per week during Eastern Standard Time

Section 46-408. Application of Article

The provisions of this Article shall apply throughout the County except in municipalities that have adopted an ordinance(s) regulating the subject matter addressed herein. This Article is for informational purposes only and shall not create a basis for the County to bring any code enforcement or other type of action against those who do not comply with the regulations outlined herein.

Section 3. Area Encompassed. This Ordinance shall apply County-wide except in municipalities that have adopted an ordinance regulating the subject matter addressed herein.

Section 4. Inclusion in Code. It is the intention of the Board that the provisions of this Ordinance shall become and be made part of the Brevard County Code of Ordinances, and that the sections of this Ordinance may be renumbered or re-lettered and that the word "Ordinance" may be changed to "Chapter," "Section," "Article," or such other appropriate word or phrase in order to accomplish such intentions.

Section 5. Conflict. In the case of a direct conflict between any provision of this Ordinance and a provision of County law, rule, or regulation, the more restrictive shall apply.

Section 6. Severability. If any provision of this Ordinance or application thereof to any person or circumstance is held invalid, the invalidity shall not affect other provisions or applications of this Ordinance which can be given effect without the invalid provision or application, and to this end the provisions of this Ordinance are declared severable.

Section 7. Effective Date. A certified copy of this ordinance shall be filed with the Office of the Secretary of State, State of Florida within ten (10) days of enactment. Unless specified otherwise, this Ordinance shall take effect upon adoption and filing as required by law.

DONE, ORDERED AND ADOPTED, in Regular Session, this _____ day of _____, 2021.

ATTEST:

BOARD OF COUNTY COMMISSIONERS
BREVARD COUNTY, FLORIDA

Rachel M. Sadoff, Clerk
(SEAL)

Rita Pritchett, Chair

As approved by the Board on _____