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To: [Seiler, Ann](#)
Cc: [SCO](#); [Kroh, Stanley M.](#); [Bates Jones, Kelsey A.](#); [Miller, Michael B.](#)
Subject: TECO Manatee Viewing Center Viewing Platform Expansion - Amendment Request
Date: Monday, March 21, 2022 10:58:12 AM
Attachments: [TECO Boardwalk Expansion Section A Final.pdf](#)
[TECO Boardwalk Expansion Section C Final.pdf](#)
[Figure 1 - Soils.pdf](#)
[Figure 2 - Aerial.pdf](#)
[Figure 3 - LU.PDF](#)

EXTERNAL MESSAGE

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Ann,

Good morning. Tampa Electric Company (TEC) is submitting this Request for Amendment of the Site Certification for Big Bend Power Station (PA-79-12S) for expansion of the Manatee Viewing Center's observation Viewing Boardwalk, located in Apollo Beach, FL.

The proposed viewing platform is needed to provide additional viewing opportunities for visitors to the Manatee Viewing Center, a facility that has welcomed more than 7 million visitors since it opened in 1986. We have had over 600,000 visitors for our 2021-2022 season alone. Because TEC's Big Bend Modernization Project, which will reduce greenhouse gasses and because of daily tidal activity, there will be more warm water at the western end of the discharge canal than at previous times, and this is where manatees will now congregate. The new platform will allow visitors and researchers alike the opportunity to see manatees at close range. The warm water discharge flumes are on the north side of the canal, so manatees tend to congregate more on the north side. This necessitates the need for the platform to extend far enough into the canal to provide vantage points as described above. Several organizations like FWRI and CMRI regularly visit the Manatee Viewing Center to monitor, capture and release manatees, so the new platform will allow additional observation points and avoid the need to bring vessels into the canal. The Discharge Canal is a State and Federally designated Manatee Sanctuary, and vessels are prohibited from entering the canal except for emergency situations. On the rare occasion that vessels need to enter the canal, they will be able to easily navigate around the new structure.

The new viewing boardwalk will be constructed in a T-shape, with a 140-foot by 12-foot-wide boardwalk, and a 50-foot by 12-foot-wide terminal boardwalk. The boardwalk will be supported by 40 piles, each one 8-inches in diameter, and driven utilizing a vibratory hammer. Work will be completed from a barge, only during daylight hours and adhering to Standard Manatee Conditions. Due to high temperatures of discharge water, there were no submerged resources observed in this location during cursory surveys conducted from the existing viewing boardwalk which is located adjacent to this proposed addition. The proposed viewing boardwalk is located to avoid impacts to resources to the extent possible and at a minimal size to meet project goals.

The project will enhance the aesthetic value of the Manatee Viewing Center as the structure will be built to complement existing infrastructure at the Manatee Viewing Center. Further, the new viewing boardwalk will enhance the wildlife viewing opportunities for the public who came from all

over the world to see manatees at the Manatee Viewing Center. The new viewing boardwalk is the minimum size that will safely accommodate the 100's of thousands of visitors that visit the Manatee Viewing Center every year. The new viewing boardwalk will allow Tampa Electric Company to share our unique facility and discharge canal with our many visitors and will allow easier and safer access for wildlife researchers and manatee rescuers.

In support of this request attached is the following:

- Completed Application for Individual and Conceptual Approval Environmental Resource Permit, State 404 Program Permit, and Authorization to Use State-Owned Submerged Lands, Section A & C.
- Figure 1 – Soils Map
- Figure 2 – Project Aerial
- Figure 3 – Land Use

Please let us know if you have any questions or need additional information regarding this request for amendment. We look forward to working with you on this project.

Sincerely,
Adriano "Nate" Alcoz
EHS Consulting Specialist
Environmental Services
Office 813-228-4843
Mobile 813-293-0649
ajalcoz@tecoenergy.com



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**Application for
Individual and Conceptual Approval
Environmental Resource Permit,
State 404 Program Permit,
and Authorization to Use State-Owned
Submerged Lands**

Florida Department of Environmental Protection/

Water Management Districts

Effective December 22, 2020



Instructions for Use of This Form:

This form is designed to assist you in submitting a complete application. All applications must include Section A- General Information for All Activities. Sections B through H list typical information that is needed based on the proposed activities and are only required as applicable. Part 1-C of Section A will guide you to the correct sections needed based on your proposed activities. Applicants are advised to consult Chapter 62-330, F.A.C., and the Environmental Resource Permit Applicant's Handbook Volumes I and II for information regarding the ERP permitting process and requirements while preparing their application. Internet addresses for Chapter 62-330, F.A.C., and the Applicant's Handbook, Agency contact information, and additional instructions for this form can be found in Attachment 1.

What Sections of the Application Must I Fill Out?

Type of Activity	Section A	Section B	Section C	Section D	Section E	Section F	Section G	Section H	Section I
Fill in wetlands or waters for a single family residence?	Y	Y	N	N	N	N	N	N	Y, if in assumed waters
Docks, shoreline stabilization, seawalls associated with a single family residence?	Y	Y	N	N	N	Y, as needed	N	N	Y, if in assumed waters
Wetland impacts (other than association with an individual residence)?	Y	N	Y	N	N	N	N	N	Y, if in assumed waters
Boating facilities, a marina, jetty, reef, or dredging?	Y	N	Y	Y	N	Y, as needed	N	N	Y, if in assumed waters
Any work on state owned submerged land?	Y	N	Y	N	N	Y	N	N	Y, if in assumed waters
Construction of a stormwater management system?	Y	N	Y, as needed	N	Y	N	N	N	N
Constructing a mitigation bank?	Y	N	Y	N	Y, as needed	N	Y	N	Y, if in assumed waters
Creating a mine?	Y	N	Y, as needed	N	N	N	N	Y	Y, if in assumed waters

If you have any questions, or would like assistance completing this form, please contact the staff of the nearest office of either the Florida Department of Environmental Protection (DEP) or a Water Management District (WMD) (see Attachment 2).

Section A: General Information for All Activities

Part 1: Name, Application Type, Location, and Description of Activity

A. Name of project, including phase if applicable: Expansion of the Tidal Observation Boardwalk, Manatee Viewing Center

B. This is for (check all that apply):

- ☐ Construction and operation of **new** works, activities, and/ or a stormwater management system
- ☐ **Conceptual Approval** of proposed works, activities and/ or a stormwater management system
- ☒ Modification or alteration of **existing** works, activities, and/or a stormwater management system. Provide the existing DEP or WMD permit #, if known: Note: Minor modifications do not require completion of this form, and may instead be requested by letter in accordance with section 6.2 of Applicant's Handbook Volume I.
- ☐ **Maintenance or repair** of works, activities, and/ or a stormwater management system previously permitted by the DEP or WMD. Provide existing permit #, if known:
- ☐ Abandonment or removal of works, activities, and/ or a stormwater management system.
Provide existing DEP or WMD permit #, if known:
- ☐ Operation of an **existing unpermitted** work, activity, and/or stormwater management system.
- ☐ Construction of additional phases of a permitted work, activity, or system.
Provide the existing DEP or WMD permit #, if known:
- ☐ A State 404 Program authorization:
☐ Exemption ☐ General Permit ☐ Individual Permit
If requesting an Exemption or General Permit provide Rule #, if known:



By checking this box, I hereby voluntarily waive, in accordance with Rule 62-330.090(8), F.A.C., the agency action deadlines in section 5.5.3 of Volume I in the event my project also requires a State 404 Program authorization (other than an exemption) under Chapter 62-331, F.A.C., and request that the agency actions for the ERP and State 404 Program authorizations be issued at the same time. (This is strongly recommended to ensure consistency, and to reduce the potential need for project modifications to resolve inconsistencies that may occur when the agency actions are issued at different times.) If this box is checked and the Agency(ies) determines that no State 404 Program authorization is required, the Agency will continue to abide by section 5.5.3 of Volume I.

C. **List the type of activities proposed. Check all that apply, and provide the supplemental information requested in each of the referenced application sections.** Please also reference Applicant's Handbook Volumes I and II for the type of information that may be needed.

- ☐ Activities associated with one single-family residence, duplex, triplex, or quadruplex that do not qualify for an exemption or a General Permit: **Provide the information requested in Section B. Do not complete Section C.**
- ☒ Activities within wetlands or surface waters, or within 25 feet of a wetland or surface water, (not including the activities associated with an individual single-family residence). Examples include dredging, filling, outfall structures, docks, piers, over-water structures, shoreline stabilization, mitigation, reclamation, and restoration/enhancement. **Provide the information requested in Section C.**
- ☐ Activities within navigable or flowing surface waters such as a multi-slip dock or marina, dry storage facility, dredging, bridge, breakwaters, reefs, or other offshore structures: **In addition to Section C, also provide the information requested in Section D.**
- ☐ Activities that are (or may be) located within, on, or over state-owned submerged lands (See Chapter 18-21, F.A.C. <https://www.flrules.org/gateway/ChapterHome.asp?Chapter=18-21>): **In addition to Section B or C, also provide the information requested in Section F.**
- ☐ Construction or alteration of a stormwater management system serving residential, commercial, transportation, industrial, agricultural, or other land uses, or a solid waste facility (excluding mines that are regulated by DEP). **Provide the information requested in Section E.**
- ☐ Creation or modification of a Mitigation Bank (refer to Chapter 62-342, F.A.C. <https://www.flrules.org/gateway/ChapterHome.asp?Chapter=62-342>): **Provide the information requested in Section G.**
- ☐ Mines (as defined in Section 2.0 of Applicant's Handbook Volume I) that are regulated by the DEP: **Provide the information requested in Section H.**
- ☐ Other, describe: Please contact the Agency to determine which additional sections of the application are needed. See Attachment 2 for Agency contacts.

D. Describe in general terms the proposed project, system, works, or other activities. For permit modifications, please briefly describe the changes requested to the permit: **TECO Big Bend Station Modernization Project will shut down the eastern flumes in front of the current observation deck; therefore, the manatees would remain west of the Thermal Dilution Channel, where the remaining flumes would continue to discharge water most of the time. This expansion will allow the public to have a closer experience and view of the manatees and other marine animals because the expansion deck is in front of the flumes that would remain working.**

E. Project/Activity Street/Road Address or other location (if applicable): 6990 Dickman Rd.
City: **Apollo Beach** County(ies): **Hillsborough** Zip: **33572**

Note: For utility, road, or ditch/canal activities, provide a starting and ending point using street names and nearest house numbers or provide length of project in miles along named streets or highways.

- F. Project location map and Section, Township, and Range information (use additional sheets if needed):

Please attach a location map showing the location and boundaries of the proposed activity in relation to major intersections or other landmarks. The map should also contain a north arrow and a graphic scale; show Section(s), Township(s), and Range(s); and must be of sufficient detail to allow a person unfamiliar with the site to find it.

Section(s): **16** Township: **31** Range: **19** Land Grant name, if applicable:

Section(s): Township: Range:

1. Section(s): 16 Township: 31 Range: 19

- G. Latitude (DMS) **27° 47' 33.24"** Longitude (DMS) **82° 24' 12.75"** (Taken from central location of the activity). Explain source for obtaining latitude and longitude (i.e. U.S.G.S. Quadrangle Map, GPS, online resource): Google Earth Pro

- H. Tax Parcel Identification Number(s): **51641.5000**

[Number may be obtained from property tax bill or from the county property appraiser's office; if on multiple parcels, provide multiple Tax Parcel Identification Numbers]

- I. Directions to Site (from major roads; include distances and landmarks as applicable): **From I-75, take the exit to Big Bend Rd towards Apollo Beach. Keep on Apollo Beach Rd to Dickman Rd. (Where the MVC is located). Once on the MVC, the expansion will locate at approximately 650 ft from the gate of the existing Tidal Observation Boardwalk**

- J. Project area or phase area: **0.052341 acres**

- K. Name of waterbody(ies) (if known) in which activities will occur or into which the system will discharge: **Thermal Dilution Channel – TECO Big Bend Station**

The following questions (M-O) are not applicable to activities related to an individual single-family residence, including a dock, pier, and/or seawall associated with that residence.

- L. Is it part of a larger plan of development or sale? ☐ yes ☒ no

- M. Impervious or semi-impervious area excluding wetlands and other surface waters (if applicable):

0.052341 acres or 2,280 square feet

- N. Volume of water the system is capable of impounding (if applicable): **N/A**

Normal Pool: acre-feet. Depth ft.
 Maximum Pool: acre-feet. Depth ft.

Part 2: Supplemental Information, and Permit History

- A. Is this an application to modify an existing Environmental Resource Permit or to construct or implement part of a multi-phase project, such as a project with a Conceptual Approval permit? ☐ Yes ☐ No (If you answered "yes", please provide permit numbers below):

Agency	Date	Permit/Application No.	Project Name

- B. Indicate if there have been any **pre-application meeting(s)** with the DEP, WMD, or delegated local government, or other discussions, meetings, or coordination with other stakeholders or agencies about the proposed project, system or activity. If so, please provide the date(s), location(s) of the meeting, and the name(s) of Agency staff that attended the meeting(s):

Agency	Date	Location	Meeting Attendees
DEP	1/31/22	Call	Alexandria Moorehead

- C. **Attach a depiction (plan and section views), which clearly shows the works or other activities proposed to be constructed.** Use multiple sheets, if necessary, a scale sufficient to show the location and type of works, and include a north arrow and a key to any symbols used. **Specific information to be included in the plans is based on the activities proposed and is further described in Sections B-H.** However, supplemental information may be required based on the specific circumstances or location of the proposed works or other activities.
- D. Processing Fee: **Please submit the application processing fee along with this application form and supplemental information.** Processing fees vary based on the size of the activity, the type of permit applied for, and the reviewing Agency. Please reference Appendix D of Applicant's Handbook Volume I to determine the appropriate fee.

Part 3: Applicant and Associated Parties Information

Instructions: Please complete the following sections. For corporations, list a person who is a registered agent or officer of the corporation who has the legal authority to bind the corporation.

A. Applicant (Entity Must Have Sufficient Real Property Interest)

☒ This is a Contact Person for Additional Information

Last Name: Kroh	First Name: Stanley	Middle Initial: M
Title: Sr. Manager of Land & Sterward Prog	Company: Tampa Electric Company	
Address: 6990 Dickman Rd		
City: Apollo Beach	State: FL	Zip: 33572
Home Telephone:	Work Telephone: 813-228-4257 x 84257	
Cell Phone: 813-293-6869	E-mail Address: smkroh@tecoenergy.com	

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

B. Land Owner(S) (If Different or in Addition to Applicant)

☐ Check here if land owner is also a co-applicant

Last Name:	First Name:	Middle Initial:
Title:	Company:	
Address:		
City:	State:	Zip:
Home Telephone:	Work Telephone:	
Cell Phone:	E-mail Address:	

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

C. Operation and Maintenance Entity(see Applicant's Handbook I, Section 12.3)

Last Name:	First Name:	Middle Initial:
Title:	Company:	
Address:		
City:	State:	Zip:
Home Telephone:	Work Telephone:	
Cell Phone:	E-mail Address:	

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

D. Co-Applicant (If Different or In Addition to Applicant and Owner)

Last Name:	First Name:	Middle Initial:
Title:	Company:	
Address:		
City:	State:	Zip:
Home Telephone:	Work Telephone:	
Cell Phone:		

E-mail Address:

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

E. Registered Professional Consultant

☐ This is a contact person for additional information

Last Name: First Name: Middle Initial:
Title: Company:
Address:
City: State: Zip:
Home Telephone: Work Telephone:
Cell Phone:
E-mail Address:

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

F. Environmental Consultant

☐ This is a contact person for additional information

Last Name: First Name: Middle Initial:
Title: Company:
Address:
City: State: Zip:
Home Telephone: Work Telephone:
Cell Phone:
E-mail Address:

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

G. Agent Authorized to Secure Permit (If Different from Consultant)

Last Name: First Name: Middle Initial:
Title: Company:
Address:
City: State: Zip:
Home Telephone: Work Telephone:
Cell Phone:
E-mail Address:

Correspondence will be sent via email, unless you check here to receive it via US Mail: ☐

If necessary, please add additional pages for other contacts and property owners related to this project.

H. Real Property Interest

- a. Permits are only issued to entities having sufficient real property interest as described in Section 4.2.3(d) of Applicant's Handbook Volume I. **Please attach evidence of the applicant's real property interest over the land upon which the activities subject to the application will be conducted, including mitigation areas (if applicable).** Refer to Sections 4.2.3(d)-(e) for sufficient real property interest documentation.

- b. For activities that require a recorded notice in accordance with rule 62-330.090(7), F.A.C., please provide either the complete legal description of the property or a copy of the pages of the document recorded in the public records that contains the complete legal description. If the land upon which the proposed activities are to occur is not owned by the applicant, the applicant must also provide copies of any right-of-way, leases, easements, or other legal agreement which authorizes the applicant to perform the activities on those lands.

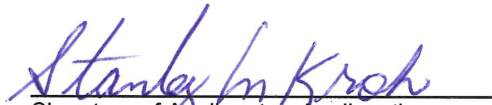
Part 4: Signatures and Authorization to Access Property

Instructions: For multiple applicants please provide a separate Part 4 for each applicant. For corporations, the application must be signed by a person authorized to bind the corporation. A person who has sufficient real property interest (see Section 4.2.3(d) of Applicant's Handbook Volume I) is required in (B) to authorize access to the property, except when the applicant has the power of eminent domain.

A. By signing this application form, I am applying for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application and represent that such information is true, complete and accurate. I understand this is an application and not a permit, and that work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto does not relieve me of any obligation for obtaining any other required federal, state, water management district, or local permit prior to commencement of construction. I agree to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a different responsible operation and maintenance entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

STANLEY M. KROH

Typed/Printed Name of Applicant or
Applicant's Authorized Agent


Signature of Applicant or Applicant's
Authorized Agent

3/21/2022
Date

(Corporate Title if applicable)

B. Certification of Sufficient Real Property Interest And Authorization For Staff To Access The Property:

I certify that:

☒ I possess sufficient real property interest in or control, as defined in Section 4.2.3 (d) of Applicant's Handbook Volume I, over the land upon which the activities described in this application are proposed and I have legal authority to grant permission to access those lands. I hereby grant permission, evidenced by my signature below, for staff of the Agency to access, inspect, and sample the lands and waters of the property as necessary for the review of the proposed works and other activities specified in this application, upon advance notice. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review, inspection, and/ or sampling. Further, if a permit is granted, upon advance notice, I agree to provide entry to the project site for such agents or personnel with proper identification to determine compliance with permit conditions and permitted plans and specifications.

OR

☐ I represent an entity having the power of eminent domain and condemnation authority, and I/we shall make appropriate arrangements to enable staff of the Agency to legally access, inspect, and sample the property as described above.

STANLEY M. KROH

Typed/Printed Name

Stanley M Kroh

Signature

3/21/2022

Date

(Corporate Title if applicable)

C. Designation of Authorized Agent (If Applicable):

I hereby designate and authorize _____ to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirements which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S., and 18 U.S.C. Section 1001.

Typed/Printed Name of Applicant

Signature of Applicant

Date

(Corporate Title if applicable)

Section C: Supplemental Information for Works or Other Activities In, On, or Over Wetlands and/or Other Surface Waters

Instructions: **This section is for applications that do not involve activities associated with an individual single-family residence, duplex, triplex, or quadruplex. For those activities, please use Section B.** This form is to be completed if the proposed work or activity will occur in, on, over, or within 25 feet of a wetland or other surface water. The supplemental information required by this section is in addition to the information required by Section A of the application.

Part 1: Wetland or Other Surface Water Impact Summary

1. Describe the basic purpose of the project or activity: ***The purpose of this activity is to expand the existing viewing dock at TECO's Manatee Viewing Area.***
2. Total area of work (dredging, filling, construction, alteration, or removal) in, on, or over wetlands or other surface waters: ***2,280 sq. ft.; 0.05 ac.***
3. Total volume of material to be dredged or filled in wetlands or other surface waters:
 - a. to be dredged: ***N/A cubic yards,***
 - b. to be filled: ***De minimis*** cubic yards.
4. Identify the seasonal high-water level (SHWL) and wetland normal pool elevations for each wetland or surface water within the project site. For tidal wetlands and/or surface waters provide the elevation of mean high and mean low water. Include an aerial photograph showing the location of each sampling location, dates, datum, and methods used to determine these elevations. ***Refer to project plan for mean high and mean low water levels.***
5. Name of waterbody(ies) (if applicable & if known) in which work will occur? ***Thermal Dilution Channel – TECO Big Bend Station***
6. Is the activity proposed in an Outstanding Florida Water or Aquatic Preserve?
☐ yes, name: ☒ no ☐ I don't know
7. Has there ever been a formal or informal wetland determination for the project site? If yes, provide the identifying number and/or a copy of the jurisdictional map. ***NA***
8. Provide a map(s) of the project area and vicinity delineating USDA/NRCS soil types. ***See attached Figure 1.***
9. Provide recent aerials legible for photointerpretation (no photocopies) with a scale of 1" = 400 ft, or more detailed, with project boundaries and wetland boundaries delineated on the aerial. ***Please see attached Figure 2.***
10. Provide maps accurately portraying the existing and proposed natural vegetative community types and land cover classifications using recognized classification schemes. Suggested sources include:



the Florida Natural Areas Inventory Guide to the Natural Communities of Florida (2010) available at <http://www.fnai.org/naturalcommguide.cfm>, or the Florida Land Use and Cover Classification System (FLUCCS) (FDOT 1999, available at <http://www.dot.state.fl.us/surveyingandmapping/documentsandpubs/fluccmanual1999.pdf>). For vegetated areas dominated by exotic vegetation, use the descriptors representative of the native community type that was present prior to exotic infestation. **See attached Figure 3.**

11. Impact Summary Tables (located at the end of this section):
 - a. For all projects, complete Table 1, 2 and 3 as applicable.
 - b. For shoreline stabilization projects, provide the information requested in Table 4.
12. If the activity is located on state owned submerged lands and requires a lease or easement, provide a list of names and addresses from the latest county tax assessment roll of all property owners located within a 500 ft. radius of the proposed lease or easement boundary in mailing label format, or you may elect to send notice to those persons by certified mail, with the return-receipt card addressed to the DEP or water management district, as applicable, in accordance with subsection 18-21.005(3), F.A.C., and Section 253.115, F.S. Attach additional sheets if necessary.
Project is proposed over privately owned bottom land and the Tampa Electric Company owns all properties within a 500' radius of the project area.
 1. Name:
Mailing Address:
City, State, Zip Code:
 2. Name:
Mailing Address:
City, State, Zip Code:
 3. Name:
Mailing Address:
City, State, Zip Code:
 4. Name:
Mailing Address:
City, State, Zip Code:
 5. Name:
Mailing Address:
City, State, Zip Code:
 6. Name:
Mailing Address:
City, State, Zip Code:

Part 2: Environmental Considerations

Note: for many questions, a state statute/Applicant's Handbook Volume I (AH I)/State 404 Program Applicant's Handbook section is cited to assist the applicant in addressing these questions.

1. Elimination or Reduction of Impacts (Avoidance and Minimization). Describe measures taken to eliminate or reduce impacts to wetlands and other surface waters (*Refer to AH I Section 10.2.1*). ***Due to high temperatures of discharge water, there were no submerged resources observed in this***

location during cursory surveys conducted from the existing observation deck which is located adjacent to this proposed addition. The proposed observation pier is located to avoid impacts to resources to the extent possible and at a minimal size to meet project goals. The purpose of this observation area is to provide a location for environmental education and opportunities for visitors to better understand and appreciate natural resources and specifically manatees in this exact location.

2. Fish, Wildlife, Listed Species, and their Habitats. Provide results of any wildlife assessments that have been conducted on the project site and provide any comments, biological opinions, formal or informal consultation decisions, or recommended actions you have received pertaining to the project from the Florida Fish and Wildlife Conservation Commission, the U.S. Fish and Wildlife Service, and the National Marine Fisheries Service. (Refer to AH I Section 10.2.2). **While no formal resource surveys have been conducted in this area associated with this proposed project the area is well known to high densities of Manatees especially during the winter.**
3. Water quantity impacts to wetlands and other surface waters (Refer to AH I Section 10.2.2.4 and AH II).
 - a. Does the activity include a proposed surface water management system with a control elevation different than the wetland normal pool elevation(s) of existing or proposed created wetlands or other surface waters? **No.**
 - b. If yes to (a), provide documentation (e.g. drawdown assessment or other methods) that shows the proposed surface water management system will not change the hydroperiod of the existing or created wetland or other surface water. **N/A**
4. Public Interest Test. Please describe how the proposed activity will **not be contrary** to the public interest, OR if such an activity significantly degrades or is located within an Outstanding Florida Water (OFW), that the regulated activity will be **clearly in** the public interest (Refer to AH I Section 10.2.3).
 - a. Please describe how the project will be designed to avoid adverse effects to public health, safety, or the welfare or the property of others. **The boardwalk will be designed and constructed to standard structural building codes and standards. These codes and standards are in place to ensure safe public use and universal access. The boardwalks and environmental education center experienced an increase in visitors during COVID pandemic as many looked outdoors for safe ways to recreate while social distancing. It was observed that aggregations of manatees at particular sections of the existing observation deck would result in a corresponding aggregation of people viewing them. This addition of observation deck will reduce the human "crowding" effect as people visit this area.**
 - b. Please describe how the project will be designed to avoid adverse effects to the conservation of fish and wildlife, including endangered or threatened species, or their habitats. **The project is an enhancement to a facility that actively promotes conservation and education regarding manatees.**
 - c. Please describe how the project will be designed to avoid adverse effects to navigation or the flow of water or cause harmful erosion or shoaling. **This is not a navigable waterway and flow will not be affected.**

- d. Please describe how the project will be designed to avoid adverse effects to the fishing or recreational values or marine productivity in the vicinity of the activity. ***This is an enhancement to a recreational area.***
- e. Will the project be of a temporary or permanent nature? ***The project is permanent.***
- f. Please describe how the project will be designed to avoid adverse impacts to significant historical and archaeological resources, under the provisions of section 267.061, F.S. ***The project is not over any historically significant features and occurs over an artificially dredged area.***
- g. Please describe how the project will be designed to avoid adverse effects to the current condition and relative value of functions being performed by areas affected by the proposed regulated activity. ***The project will have minimal effects on current conditions.***

5. Water Quality.

Provide a description of how water quality will be maintained in wetlands and other surface waters that will be preserved or will remain undisturbed, both on and offsite. Please address both short-term (such as during construction) and long-term water quality considerations (*Refer to AH I Section 10.2.4*). ***This project will not have any long-term impact on water quality. During construction the contractor will employ standard BMP protocols including use of turbidity curtains.***

6. Class II Waters; Waters approved for shellfish harvesting (*Refer to AH I Section 10.2.5*).

- a. Will the project occur in Class II that are NOT approved for shellfish harvesting? If yes, please provide a plan or procedure detailing the measures to be taken to meet the requirements of *AH I Section 10.2.5(a)*. **No.**
- b. Is the project located adjacent to or in close proximity to Class II waters? If yes, please provide a plan or procedure detailing the measures to be taken to meet the requirements of *AH I Section 10.2.5(b)*. **No.**
- c. Is the project located in Class II or Class III waters that are classified as “approved”, “restricted”, “conditionally approved”, or “conditionally restricted”? If yes, demonstrate that the project meets the requirements of *AH I Section 10.2.5(c)*. **No.**

7. Vertical seawalls. Are vertical seawalls proposed in an estuary or lagoon as part of the project? If yes, please describe how the project meets the requirements of *AH I Section 10.2.6*. **No.**

8. Secondary Impacts (*AH I Section 10.2.7*).

- a. Will an upland buffer, with a minimum width of 15' and an average width of 25', be provided between the proposed activities and existing wetlands or wetlands to be preserved, enhanced, restored, or created? Provide the location and dimension of all buffers on the plans. **NA.** If not, demonstrate that secondary impacts will not occur or describe how they will be offset.
- b. If listed species are present or may be present, then coordination with wildlife agencies is needed. Have you coordinated with the FFWCC and/or USFWS? If so, please provide correspondence from the wildlife agencies indicating concurrence with the species management plan(s). ***Coordination with wildlife agencies has not occurred.***

- c. What measures will be taken to avoid impacts to wetland-dependent wildlife and/or listed species that use uplands for nesting or denning? **NA. This project occurs entirely over open water.**
 - d. Describe whether there are any other relevant activities that are very closely linked and causally related to any proposed dredging or filling in wetlands or other surface waters that have the potential to cause impacts to significant historical and archaeological resources. ***This project occurs over artificially dredged areas.***
 - e. Are there additional future phases or extensions of the proposed activities that are not shown? If yes, please describe. **No.**
9. Cumulative Impacts. Is the proposed mitigation located within the same drainage basin (*Refer to AH I Figures 10.2.8.1 – 10.2.8.5*) as the proposed wetland impacts? **No mitigation is proposed. Impacts are de minimis.** If not, please submit a Cumulative Impact Evaluation in accordance with *AH I Section 10.2.8*.
10. Mitigation Plan (*Refer to AH I Section 10.3*).

Impacts associated with this project consist of the footprint of support piles of the observation pier. These impacts are de minimis and thus no mitigation is being proposed.

- a. If a mitigation bank is proposed to offset wetland/other surface water impacts, provide:
 - i. the name of the bank: **NA.** A letter of reservation from the banker will be required once the application has been evaluated.
 - ii. If the mitigation bank was assessed using UMAM, provide UMAM worksheets for impact area(s). If the bank was assessed using a method other than UMAM, then prepare the impact assessment using the same method.
- b. If mitigation is proposed to offset wetland/other surface water impacts, please provide a mitigation plan that includes, at a minimum, the following:
 - i. ☐ Proposed mitigation narrative:
 - (1) ☐ Describe the current and proposed condition for each type of mitigation component (restoration, enhancement, creation, preservation), including:
 - (a) ☐ Describe current and proposed vegetation
 - (b) ☐ Describe current and proposed hydrologic conditions for the proposed mitigation.
 - (c) ☐ Describe the soil types from NRCS maps and confirm if actual soil conditions appear to match.
 - (2) ☐ Provide details of the proposed construction/mitigation activities including phasing and timing, as appropriate.
 - (3) ☐ Identify measures that will be implemented during and after construction to avoid adverse impacts related to the proposed activities.
 - (4) ☐ A mitigation implementation and monitoring schedule with dates.
 - (5) ☐ Identify the success criteria.
 - (6) ☐ Describe the anticipated site conditions in and around the mitigation area after the mitigation plan is successfully implemented.
 - (7) ☐ Provide a comparison of current fish and wildlife habitat to expected habitat after the mitigation plan is successfully implemented.

- ii. ☐ Provide a Management Plan that includes, as appropriate, aspects of operation and maintenance, including water management practices, vegetation establishment, exotic and nuisance species control, fire management, and control of access.
- iii. ☐ Maps:
 - (1) ☐ Soil map (include soil names/codes, hydrologic soil groups and hydric soil types).
 - (2) ☐ Topographic map of the mitigation area and adjacent contributing and receiving areas.
 - (3) ☐ Hydrologic features map of the mitigation area and adjacent contributing and receiving areas.
 - (4) ☐ Vegetative communities map (using FLUCCS or other appropriate classification system).
 - (5) ☐ For all maps, identify source.
- iv. Provide the necessary supporting information for the application of sections 62-345.400 - .600 (Uniform Mitigation Assessment Method (UMAM)). To meet this requirement, submittal of UMAM worksheets is acceptable for impact and mitigation areas.
- v. If onsite and/or offsite applicant-responsible mitigation is proposed, submit a draft Conservation Easement document or other form of restrictive covenant that provides for protection of the mitigation area in perpetuity. Standard forms, as described in subsection 62-330.301(6), F.A.C., are available from the Agency or on its website.
- vi. If onsite and/or offsite applicant-responsible mitigation is proposed, submit a cost estimate for completing the mitigation, including monitoring and maintenance.
- vii. If onsite and/or offsite applicant-responsible mitigation is proposed and the proposed mitigation exceeds \$25,000, please provide a draft financial assurance document. Standard forms, as described in subsection 62-330.301(5), F.A.C., are available from the agency or on its website.
- viii. Identify the entity responsible for monitoring, maintenance, and long-term stewardship of the mitigation area (i.e. the landowner or homeowner association, not the consultant or contractor that will do the work).

Note: If your project is in retained waters, it is highly recommended that you coordinate the design of any mitigation plan that also may be required for the Corps permit to meet the requirements of both permits. Pre-application meetings with both the applicable Agency and the Corps can help you to choose a mitigation option that is acceptable to both the applicable Agency and the Corps.

Part 3: Plans

Plans: The information listed in the checklist below represents the typical information required on the submitted project plans. The Plans checklists in each application section are cumulative unless otherwise noted. Separate plans for each application section are not required.

- 1. ☐ Include the following on the construction plans and cross sections:
 - a. ☐ An Existing Conditions sheet showing the entire project and wetland/other surface water boundaries. Include the following: Acreage and type (herbaceous, forested or other surface water) of each wetland/other surface water.

- b. ☐ A Proposed Conditions sheet showing the entire project and wetland/other surface water boundaries with construction plan overlay.
 - c. ☐ A Proposed Wetland Impact sheet that includes the following:
 - i. ☐ Acreage and type (herbaceous, forested, or other surface water) of each wetland/other surface water to be impacted.
 - ii. ☐ Proposed upland buffers with dimensions.
 - iii. ☐ Identify the seasonal high water and wetland normal pool elevations on the plans.
 - d. ☐ Include wetland boundaries on all construction plan sheets.
2. ☐ If onsite and/or offsite applicant-responsible mitigation is proposed, submit mitigation plans and cross sections including, at a minimum:
- a. ☐ existing conditions plan sheet identifying upland and wetland communities and acreage of each, topography, drainage patterns, and location of cross-section detail.
 - b. ☐ proposed conditions plan sheet identifying proposed improvements by type (restoration, enhancement, creation, preservation), acreage of each, topography, drainage patterns, and location of cross-section detail.
 - c. ☐ monitoring plan sheet including proposed improvements, monitoring transects, photo-stations, and mitigation signage (if applicable).
 - d. ☐ cross-section and/or profile detail(s) sheet(s) including representative section of each type of mitigation component. Include existing and proposed conditions and representative elevations.
 - e. ☐ planting schedule, plant species including common and scientific names divided into three sections (canopy, shrub, herbaceous) by mitigation component, quantity, spacing, size, and elevation range.

Table 1 - Project Wetland (WI) And Other Surface Water (SW) And Impact Summary

WL & SW ID	UMAM ASSESSMENT AREA NAME(S)	WL & SW TYPE	WL & SW SIZE (acres)	WL & SW NOT IMPACTED (acres)	TEMPORARY WL & SW IMPACT SIZE (acres)	TEMPORARY WL & SW IMPACT TYPE	PERMANENT WL & SW IMPACT SIZE (acres)	PERMANENT WL & SW IMPACT TYPE	MITIGATION ID
Big Bend Bayou		E1UBLx	0.05	0.00016	N/A	N/A		Pier Pilings	<i>De minimis</i>
PROJECT TOTALS:									

Comments: 7 sq feet of impacts, associated with the pilings

Codes (multiple entries per cell not allowed):

- Wetland & Surface Water ID: Include ID on submitted wetland and surface water impact maps
- Wetland Type: from an established wetland classification system
- Impact Type: D=dredge; F=fill; H=change hydrology; S=shading; C=clearing; O=other

Table 2 - Project On-Site Mitigation Summary

MITIGATION ID	UMAM ASSESSMENT AREA NAME(S)	TARGET TYPE	CREATION AREA (acres)	RESTORATION AREA (acres)	ENHANCEMENT AREA (acres)	WETLANDS PRESERVE AREA (acres)	UPLAND PRESERVE AREA (acres)	OTHER AREA (acres)
PROJECT TOTALS:								

COMMENTS: *De minimis*

Codes (multiple entries per cell not allowed):

- Target Type or Type=target or existing habitat type from an established wetland classification system or land use classification for non-wetland mitigation

Table 3 - Project Off-Site Mitigation Summary

MITIGATION ID	UMAM ASSESSMENT AREA NAME(S)	TARGET TYPE	CREATION AREA (acres)	RESTORATION AREA (acres)	ENHANCEMENT AREA (acres)	WETLANDS PRESERVE AREA (acres)	UPLAND PRESERVE AREA (acres)	OTHER AREA (acres)
PROJECT TOTALS:								

COMMENTS: N/A

Codes (multiple entries per cell not allowed):

- Target Type or Type=target or existing habitat type from an established wetland classification system or land use classification for non-wetland mitigation

Table 4 - Shoreline Stabilization

Stabilization	Linear Ft. New	Linear Ft. Replaced	Linear Ft. Repaired	Linear Ft. Removed	Slope H: V:	Toe Width (Ft.)
Natural Vegetation (living shoreline)					N/A	N/A
Rip Rap + Vegetation						
Rip Rap						
Seawall + Rip Rap						
Vertical Seawall						
Other Shoreline Stabilization Type						

Size of Rip Rap N/A

Type of Rip Rap N/A



Legend

PROJECT LOCATION

NRCS SOILS

24 - KESSON MUCK, FREQUENTLY FLOODED

30 - MYAKKA FINE SAND, FREQUENTLY FLOODED

44 - ST. AUGUSTINE FINE SAND

45 - ST. AUGUSTINE-URBAN LAND COMPLEX

57 - WABASSO FINE SAND, 0 TO 2 PERCENT SLOPES

99 - WATER

All data within this map are supplied as is, without warranty. This product has not been prepared for legal, engineering, or survey purposes. Users of this information should review or consult the primary data sources to ascertain the usability of the information.

Figure 1 - NRCS Soils Map
TECO Manatee Viewing Area Dock Extension
Hillsborough County, Florida

Data Source:
- NRCS
- ESA
Imagery Source:
- ESRI

Coordinate System:
NAD 1983 Florida
State Plane West



Legend
PROJECT LOCATION



All data within this map are supplied as is, without warranty. This product has not been prepared for legal, engineering, or survey purposes. Users of this information should review or consult the primary data sources to ascertain the usability of the information.

Figure 2 - Project Aerial
TECO Manatee Viewing Area Dock Extension
Hillsborough County, Florida

0 100 200 300 Feet

Data Source:
- ESA
Imagery Source:
- ESRI

Coordinate System:
NAD 1983 Florida
State Plane West





Legend

- PROJECT LOCATION
- 2020 SWFWMD LAND USE TYPES
- 4110: PINE FLATWOODS
- 5300: RESERVOIRS

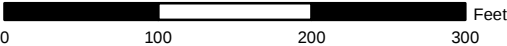
- 5400: BAYS AND ESTUARIES
- 6120: MANGROVE SWAMPS
- 6420: SALTWATER MARSHES
- 8300: UTILITIES



All data within this map are supplied as is, without warranty. This product has not been prepared for legal, engineering, or survey purposes. Users of this information should review or consult the primary data sources to ascertain the usability of the information.

Figure 3 - Land Use

TECO Manatee Viewing Area Dock Extension
Hillsborough County, Florida



Data Source:
- ESA
- SWFWMD
Imagery Source:
- ESRI

Coordinate System:
NAD 1983 Florida
State Plane West

