



## **Restoration Plan**

Washington Park Preserve - Phase II

October 31, 2019

Prepared for:

**Manatee County Board of  
Commissioners  
(Parks and Natural Resources)  
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**RESTORATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

October 31, 2018

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## RESTORATION PLAN WASHINGTON PARK PRESERVE - PHASE II

Objectives  
October 31, 2019

### 1.0 OBJECTIVES

The goal of the proposed restoration plan is to enhance 29.65 acres of a historic borrow pit to higher quality wetland habitat under a joint venture with the US Army Corps of Engineers (USACE). Proposed restoration activities will include the filling of 35.41 acres of the borrow pit, removal of nuisance and/or exotic vegetation, enhancement of the biodiversity through supplemental planting of desirable wetland species and the planting and conservation of 8.20 acres of upland buffer along a portion of the wetland mitigation area.

Objectives of the restoration activities are to remove and control reemergence of nuisance exotic vegetation, allow the restoration area to revegetate via natural recruitment and planting of desirable species, increase the wildlife utilization potential of this area, and to provide an overall benefit to Manatee County (County) residents.

### 2.0 SITE SELECTION

The Washington Park Preserve Phase II project is located within Section 12, Township 34 South, Range 17 East in Manatee County Florida (see **Location Map** in **Appendix A**). Selection criteria for potential restoration sites included:

- Located within the same drainage basin.
- Contiguous with existing aquatic resources.
- Provide a benefit to native fish and wildlife species.
- Relatively low risk of failure.

The proposed wetland enhancement activities within the borrow pit meet these criteria as it conveys surface water drainage from upstream developments downstream to Terra Ceia Bay, restoring habitats dominated by native vegetation would be of benefit to wildlife, and restoring the remaining borrow pit that currently exhibits wetland characteristics is a relatively low risk venture.

### 3.0 SITE PROTECTION INSTRUMENT

The restoration area is owned and will be maintained by the County with a Conservation Easement granted to the Southwest Florida Water Management District (SWFWMD).



**RESTORATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Baseline Information  
October 31, 2019

## **4.0 BASELINE INFORMATION**

### **4.1 HISTORICAL CONDITIONS**

Prior to human alterations, the site consisted of a mixture of wetland and upland habitats. The 1940 aerial image below depicts land conversion to a golf course by the Palmetto Golf Corporation. The golf course appears to have preserved the on-site wetlands and developed primarily in the uplands



**1940 AERIAL**



**RESTORATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Baseline Information  
October 31, 2019

In 1965 the site was excavated for fill material needed for US 41 improvements. The pit was excavated approximately 5' to 10' deep until unsuitable material was struck.



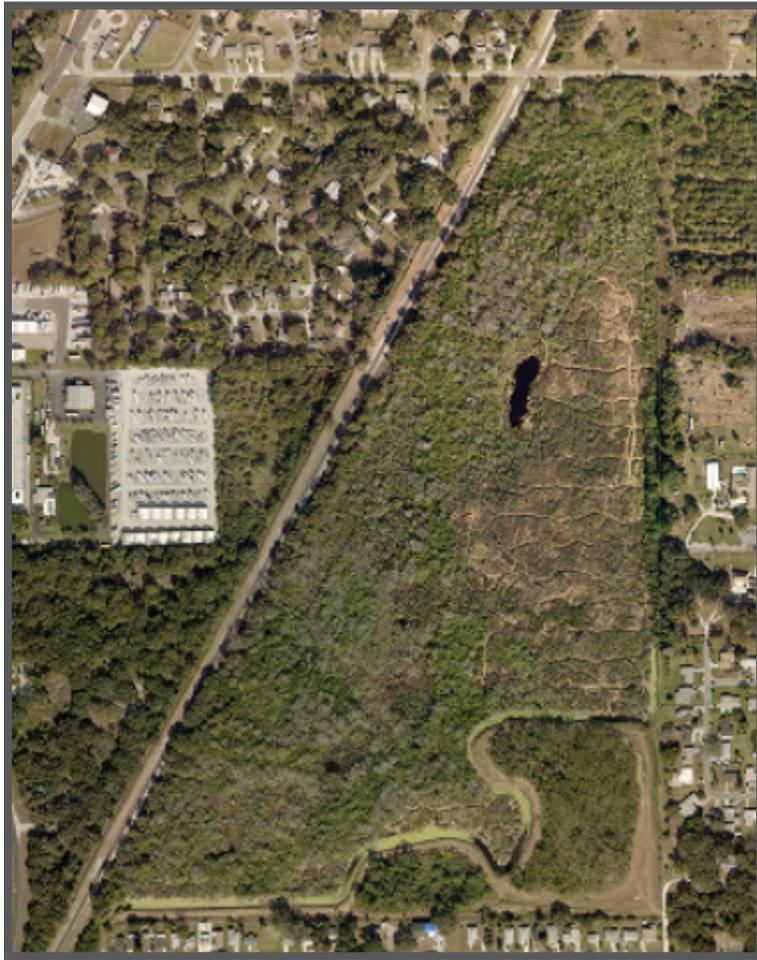
**1965 AERIAL**

The County acquired the site in 1965. Minor land use changes have occurred since that time and the excavation of a pronounced flow way along the southern edge to enhance runoff and drainage from adjacent properties. The site has been used for stockpiling by the County and there is evidence of historical and current illegal dumping activities.



**RESTORATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Baseline Information  
October 31, 2019



**CURRENT AERIAL**

## **4.2 HABITATS**

The restoration area is currently dominated by nuisance/exotic species including Brazilian pepper (*Schinus terebinthifolius*) and cattail (*Typha latifolia*) and have been classified according to the Florida Land Use Cover and Forms Classification System (FLUCCS) as Code 640 – Vegetated Non-Forested Wetlands (see **Pre-Development FLUCCS Map in Appendix A**). Cover by nuisance/exotic species was estimated to be greater than 80 percent across the entire borrow pit.

The jurisdictional wetland boundaries were reviewed and approved in the field by SWFWMD staff on August 17, 2018 and are presented within the Appendices.

Overall, existing habitat currently supports non-threatened and endangered wildlife utilization, but wildlife habitat is relatively low and can be significantly improved by the proposed project.



## RESTORATION PLAN WASHINGTON PARK PRESERVE - PHASE II

Determination of Credits  
October 31, 2019

### 4.3 SOILS

The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) has mapped five soil types within the mitigation area boundary. Please refer to the **NRCS Soils Map** in **Appendix A** for the location of these soil types, mapped as recently as 1983. This map is the most current NRCS soil data from the Web Soil Survey. Below is a description of the soils from the *Manatee County Soil Survey* by the USDA Soil Conservation Service (SCS).

#### 5 – Bradenton Fine Sand, Limestone Substratum

This is a nearly level, poorly drained soil typically found in hammocks. The water table is within 10 inches of ground surface for 2 to 6 months per year and recedes to depths of 40” for the remainder of the year. Native vegetation typically associated with this soil unit includes slash pine, laurel and live oak, cabbage palm, wax myrtle, saw palmetto and vines.

#### 13 – Chobee Loamy Fine Sand

This is a very poorly drained soil found in depressions and drainageways. The water table is at or above ground surface for 6 to 9 months per year and recedes to depths of 30” during the remainder. Typical native vegetation includes red maple, water oak, cabbage palm, ferns, and water tolerant grasses.

#### 14 – Chobee Variant Sandy Clay Loam

This is a nearly level very poorly drained soil found in shallow depressions. The water table is within 10” of ground surface for 6 months and may stay ponded for long periods. Native vegetation includes swamp oak, swamp maple, cypress, grasses, and forbs.

#### 20 – EauGallie Fine Sand

This is a nearly level, poorly drained soil found in flatwoods. The water table is within 10” of ground surface for 2 to 4 months per year and within 40” for the remainder. Natural vegetation includes slash pine, saw palmetto, wax myrtle, gallberry, and many grassy species.

#### 26 – Floridana Fine Sand

This is a nearly level, very poorly drained soil in low flats that have been drained by ditches or channels. The water table is within 10” of ground surface for 6 months of the year. Native vegetation includes cattails, maidencane, and sawgrass.

## 5.0 DETERMINATION OF CREDITS

The functional loss of impacts and functional gain provided by the proposed compensatory mitigation plan has been assessed utilizing the **Uniform Mitigation Assessment Method (UMAM)**. The associated **Worksheets** are provided in **Appendix A**.



## **RESTORATION PLAN WASHINGTON PARK PRESERVE - PHASE II**

Restoration Work Plan  
October 31, 2019

The project proposes 35.41 acres of fill impacts to the historic borrow pit resulting in a functional loss of 11.69 units. The impact assessment area is bounded by a sewage pump station to the north, agricultural farmland to the northeast, residential developments to the east and south, and an active railway to the west. The surrounding landscapes provide minimal opportunity for potential wildlife utilization. The hydrology of the borrow pit is man made through its historical excavation but appears capable of supporting wetland vegetation. Vegetative species diversity within the borrow pit is low, and the observed cover by nuisance/exotic species was greater than 80 percent.

To offset the functional loss, 29.65 acres of on-site wetlands and 8.20 acres of upland habitats are proposed to be created, restored, and enhanced yielding a functional gain of 12.51. Wetland areas currently dominated by undesirable vegetative species will undergo restoration through vegetative maintenance to reduce the prevalence of nuisance/exotic species and will receive supplemental planting of desirable plants to create a healthier, more natural, and robust ecosystem. A buffer of 65' in width will be provided along the edge of the fill area that will be planted with a variety of native species across all strata. The site will remain under the ownership and management of Manatee County and will be managed as an environmental preserve that will be subjected to more frequent maintenance and upkeep, thus reducing the potential for illegal dumping.

### **6.0 RESTORATION WORK PLAN**

Weather conditions allowing, within 60 days of completion of permitted impact activities, removal of nuisance and/or exotic vegetation from within the Wetland Restoration Areas will begin. Removal may include the use of low impact machinery with mulching heads, hand removal, and/or the use of herbicides. Vegetative biomass may be left in place to degrade naturally to aid in the establishment of an organic layer.

After the initial maintenance event has been completed, the County will assess the remaining areas of native vegetation and the topography of the ground surface in relation to the proposed water level control elevations.

Within 60 days of completion of the initial maintenance event, the County will prepare and submit a planting plan for the denuded areas in both the upland and wetland restoration areas to regulatory staff for review and approval. This plan will be comprised of native plant species, native to the County, with sizes and spacing in accordance with current industry standards.

### **7.0 MAINTENANCE PLAN**

Exotic and nuisance species will be controlled and removed to provide a competitive advantage to desirable native species and foster their establishment. Herbicide applications will be performed under supervision by a contractor licensed by the Florida Department of Agriculture and Consumer Services (FDACS) for the commercial application of pesticides with certification in the categories of Natural Areas Weed Management and/or Aquatic Weed Control. Herbicide applications will be made pursuant to label rates and instructions.



## **RESTORATION PLAN WASHINGTON PARK PRESERVE - PHASE II**

Performance Standards  
October 31, 2019

Following the initial planting event, subsequent maintenance events will occur quarterly for the first year, semiannually for years two and three, and annually thereafter until success criteria are met.

### **8.0 PERFORMANCE STANDARDS**

The performance standards for the restoration plan are as follows:

- Coverage by Category I and II invasive exotic plant species, pursuant to the most current list established by the Florida Exotic Pest Plant Council shall total less than 10 percent.
- 85 percent coverage by appropriate wetland species (i.e. FAC or wetter).
- Restoration will result in soils that are, at a minimum, saturated between 5 and 12.5 percent of the growing season.

The Permittee shall achieve the above performance standards by the end of the 5-year monitoring term. In the event that the above performance standards have not been achieved, the Permittee shall undertake a remediation program to be approved by the interested regulatory agencies.

### **9.0 MONITORING REQUIREMENTS**

A Completion Report will be submitted within 60 days of the plant installation outlining the success of the planting efforts including the number and species of plants installed. Six to ten fixed point photo stations will be established and marked with PVC poles. Photo stations will be positioned within the northern and southern wetland areas in locations that provide an overall visual representation of wetland areas. The locations of these points will be shown on an Aerial Site Plan Map to be submitted with the Completion Report.

### **10.0 LONG-TERM MANAGEMENT PLAN**

The County will be responsible for providing ongoing maintenance of the restoration area as well as protecting the area from disturbance or damage from future development.

### **11.0 ADAPTIVE MANAGEMENT PLAN**

If for unforeseen causes, the submitted restoration plan fails to achieve its outlined goals, additional maintenance events, supplemental planting, and/or alternative sites will be reviewed and discussed with regulatory agencies to reach an amenable resolution.



**RESTORATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Financial Assurance  
October 31, 2019

## **12.0 FINANCIAL ASSURANCE**

The restoration area is on lands currently owned by the County and the project is a joint venture with the USACE, therefore the costs associated with the establishment and maintenance of the proposed plan are minimal and does not necessitate specific financial assurance. The County will have adequate funding to ensure that the restoration area is established as proposed and maintained long-term.



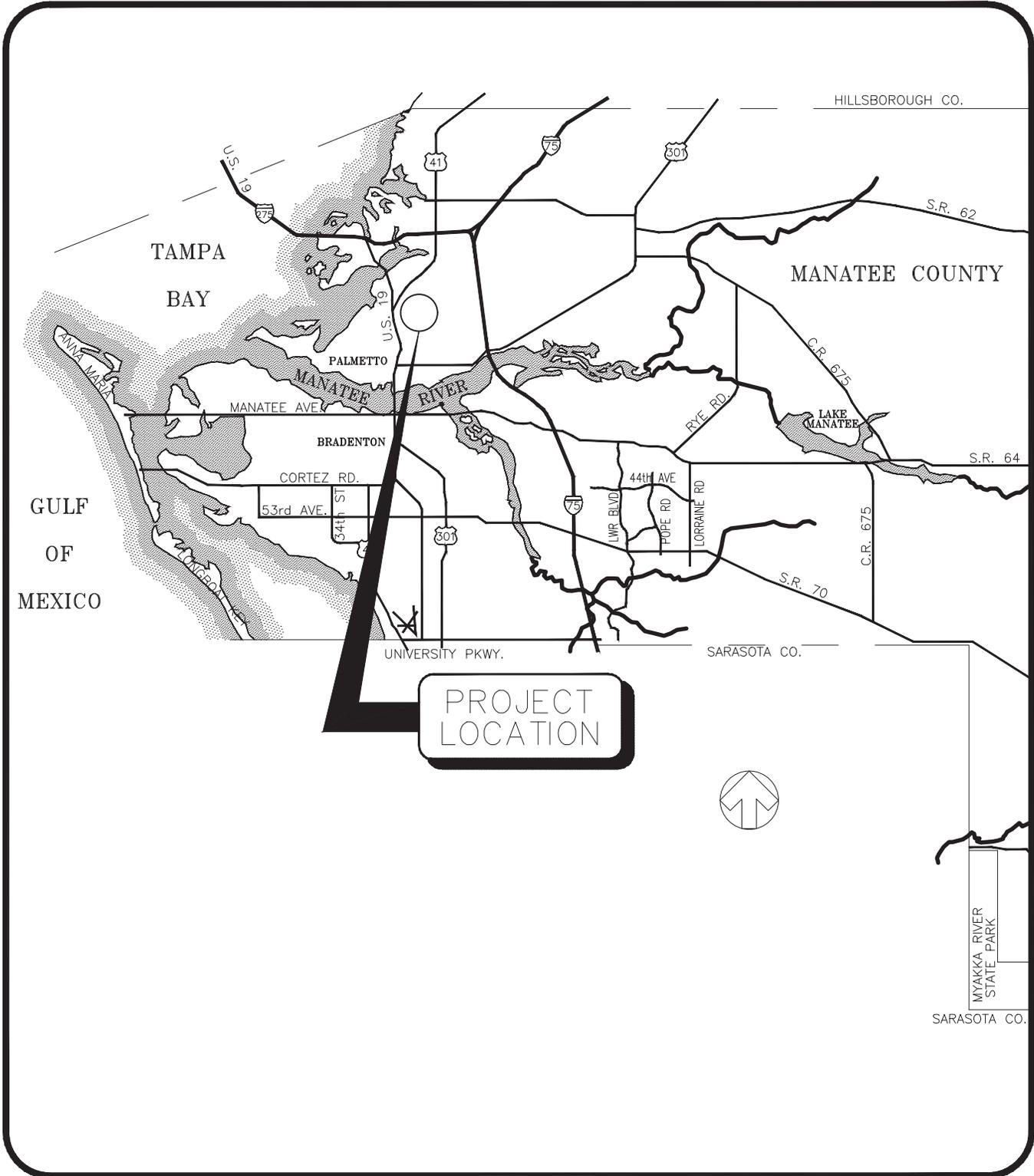
**RESTORATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Appendix A  
October 31, 2019

## **Appendix A**

### **A.1 LOCATION MAP**





LOCATION MAP

**COMPENSATORY MITIGATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Appendix A  
October 3, 2018

**A.2 PRE-DEVELOPMENT FLUCCS MAP**





**COMPENSATORY MITIGATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Appendix A  
October 3, 2018

**A.3 POST-DEVELOPMENT FLUCCS MAP**



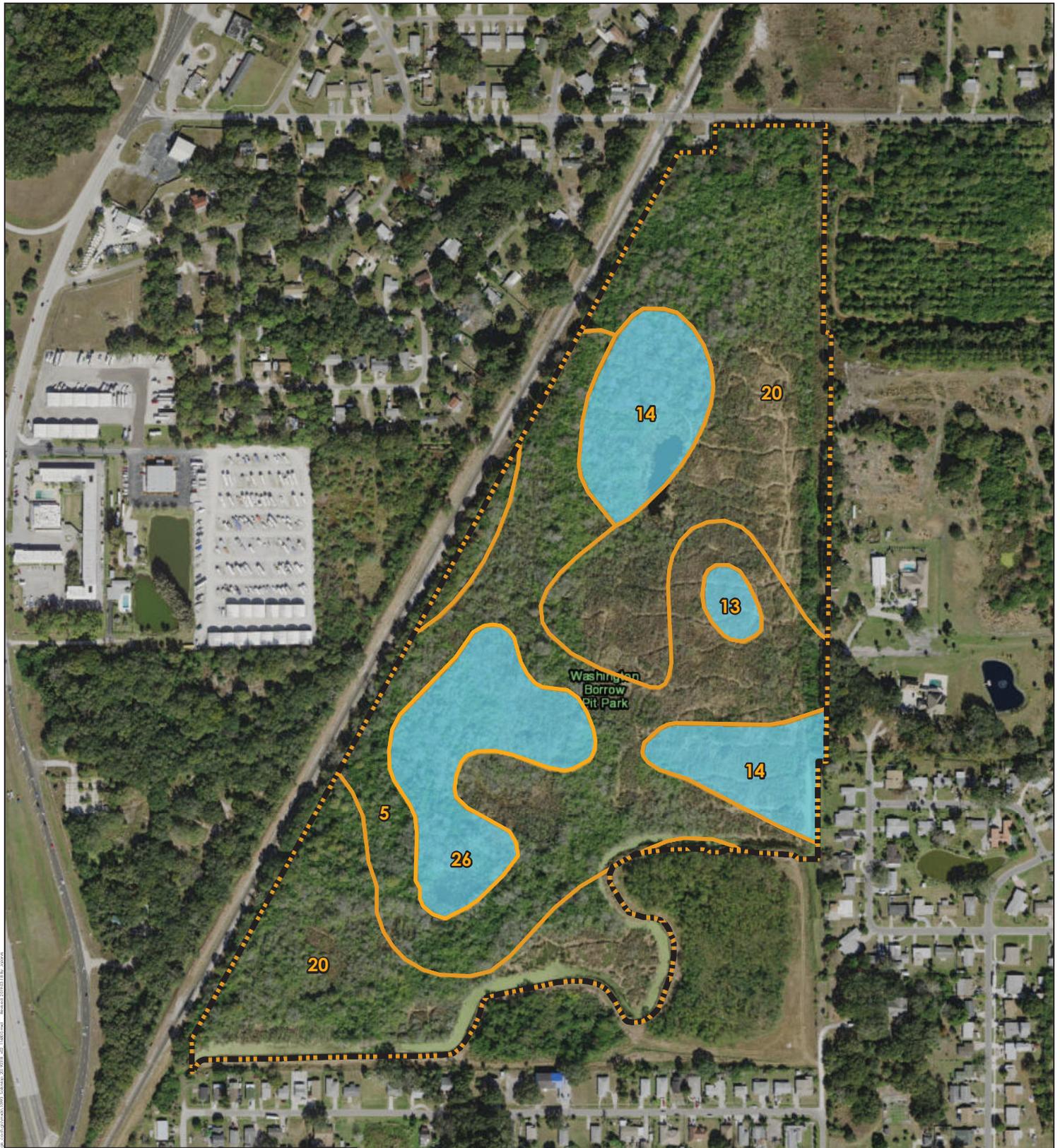


**COMPENSATORY MITIGATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Appendix A  
October 3, 2018

**A.4 NRCS SOILS MAP**





**LEGEND**

-  Project Boundary | ±68.7 ac
-  Non Hydric Soil | ± 54.19 ac
-  Hydric Soil | ± 14.49 ac

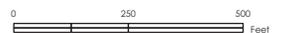
Symbol	Soil Description	Hydric	Acres
5	BRADENTON FINE SAND, LIMESTONE SUBSTRATUM		22.35 ac
13	CHOBEE LOAMY FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	YES	0.72 ac
14	CHOBEE VARIANT SANDY CLAY LOAM	YES	7.44 ac
20	EAU GALLIE FINE SAND, 0 TO 2 PERCENT SLOPES		31.84 ac
26	FLORIDANA-IMMOKALEE-OKEELANTA ASSOCIATION	YES	6.33 ac
<b>Total</b>			<b>68.67 ac</b>

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

- Notes:**
1. Coordinate System: NAD 1983 StatePlane Florida West FIPS 0902 Feet
  2. Source data: NCS
  3. Imagery: ESRI World Basemap

**Washington Park Preserve Ph. II**  
Soils Map  
March 2019

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Prepared by: J.L. 03/18/19  
Independent Review by: L.E. 03/18/19



**COMPENSATORY MITIGATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Appendix A  
October 3, 2018

**A.5 WETLAND IMPACT MAP**





**COMPENSATORY MITIGATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Appendix A  
October 3, 2018

**A.6 WETLAND MITIGATION MAP**





**COMPENSATORY MITIGATION PLAN  
WASHINGTON PARK PRESERVE - PHASE II**

Appendix A  
October 3, 2018

**A.7 UMAM IMPACT AND MITIGATION FORMS**



**PART I – Qualitative Description  
(See Section 62-345.400, F.A.C.)**

Site/Project Name Washington Park		Application Number		Assessment Area Name or Number Wetland 1	
FLUCCs code 640		Further classification (optional)		Impact or Mitigation Site? Impact	
Assessment Area Size 35.41					
Basin/Watershed Name/Number Manatee River		Affected Waterbody (Class) Class III		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) NA	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands No hydrologic connection to upstream wetlands, jurisdictional other surface water conveys water from eastern residential development. No direct connection with native upland habitats.					
Assessment area description Historical borrow pit excavated primarily in uplands prior to 1965. Currently dominated by nuisance/exotic species including cattail and Brazilian pepper, and Carolina willow					
Significant nearby features Active railway along western boundary, close proximity to US 41			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not Unique		
Functions Minimal water quality treatment and minimal wildlife habitat			Mitigation for previous permit/other historic use No		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found ) Wading birds and small mammals			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Limited foraging by wood storks		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Moorhen, little blue heron, great blue heron, great egret, red-shouldered hawk, northern cardinal, whistling ducks					
Additional relevant factors: The site was historically excavated to provide fill material for US 41. In recent decades the pit has filled in extensively with nuisance/exotic species and has been used as a dump site for a wide variety of trash, some of which is large. Sheens were observed on open water, indicating possible pollution from trash dumping					
Assessment conducted by: E. Eardley and J. Brunty revisions made by SWFWMD staff T. Dailey				Assessment date(s): Aug-18	

**PART II – Quantification of Assessment Area (impact or mitigation)**  
**(See Sections 62-345.500 and .600, F.A.C.)**

Site/Project Name Washington Park	Application Number	Assessment Area Name or Number Wetland 1
Impact or Mitigation Impact	Assessment conducted by: E. Eardley and J. Brunty <b>revisions made by SWFWMD staff T. Dailey</b>	Assessment date: Aug-18

<b>Scoring Guidance</b>
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

<b>Optimal (10)</b>	<b>Moderate(7)</b>	<b>Minimal (4)</b>	<b>Not Present (0)</b>
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	Pump station to the north, agricultural farm to the northeast, residential development to the east and south, active railway to the west. No direct connection to native upland habitats. No hydrologic connection to additional wetland systems.
w/o pres or current	with
3	0
.500(6)(b)Water Environment (n/a for uplands)	Hydrology appears appropriate for supporting wetland dependent vegetation. Water quality appears significantly degraded; evidence of extensive trash dumping and an oily sheen on the water surface that may be pollution from dumped trash.
w/o pres or current	with
3	0
.500(6)(c)Community structure	Entire system dominated by nuisance/exotic vegetation including cattail ( <i>Typha latifolia</i> ) and Brazilian pepper ( <i>Schinus terebinthifolius</i> ), and Carolina willow ( <i>Salix caroliniana</i> ).
1. Vegetation and/or 2. Benthic Community	
w/o pres or current	with
3	0

Score = sum of above scores/30 (if uplands, divide by 20)
current
or w/o pres
with
0.30
0

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = 10.62

Delta = [with-current]
0.30

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

**PART I – Qualitative Description  
(See Section 62-345.400, F.A.C.)**

Site/Project Name Washington Park		Application Number		Assessment Area Name or Number Upland Mitigation Area	
FLUCCs code 420		Further classification (optional)		Impact or Mitigation Site? Mitigation	
Assessment Area Size 8.20					
Basin/Watershed Name/Number Manatee River		Affected Waterbody (Class) NA		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) NA	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands The proposed mitigation area will be connected to adjacent wetland habitat that will be planted with desirable native vegetation and maintained and preserved by Manatee County government.					
Assessment area description Historical borrow pit excavated primarily in uplands prior to 1965. Currently dominated by nuisance/exotic species including cattail and Brazilian pepper, and Carolina willow. This area will be filled and planted with desirable upland species across all three vegetative strata.					
Significant nearby features Active railway along western boundary			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not Unique		
Functions Wildlife habitat, passive recreation area in a planned park with biking and wildlife viewing			Mitigation for previous permit/other historic use No		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found ) Small mammals and reptiles			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) None expected		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): NA					
Additional relevant factors: Upland area will be created by filling the existing pit with dredge material from Port Manatee					
Assessment conducted by: E. Eardley and J. Brunty revisions made by SWFWMD staff T. Dailey)				Assessment date(s): Aug-18	

**PART II – Quantification of Assessment Area (impact or mitigation)**  
**(See Sections 62-345.500 and .600, F.A.C.)**

Site/Project Name Washington Park	Application Number	Assessment Area Name or Number Upland Mitigation Area
Impact or Mitigation Mitigation	Assessment conducted by: E. Eardley and J. Brunty <b>revisions made by SWFWMD staff T. Dailey</b>	Assessment date: Aug-18

<b>Scoring Guidance</b>
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

<b>Optimal (10)</b>	<b>Moderate(7)</b>	<b>Minimal (4)</b>	<b>Not Present (0)</b>
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	<p><b>Current</b> - Sewage pump station to the north, abandoned grove to the northeast, residential development to the east and south, active railway to the west. No direct connection to native wetland or upland habitats.</p> <p><b>With</b> - Nuisance/exotic vegetation will be maintained within the adjacent wetland and planted with desirable native species. Both the wetland and upland areas will be a Manatee County preserve.</p>			
<table border="1"> <tr> <td>w/o pres or current</td> <td>with</td> </tr> <tr> <td align="center">3</td> <td align="center">7</td> </tr> </table>		w/o pres or current	with	3
w/o pres or current	with			
3	7			

.500(6)(b)Water Environment (n/a for uplands)	NA - Upland				
<table border="1"> <tr> <td>w/o pres or current</td> <td>with</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	w/o pres or current	with			
w/o pres or current	with				

.500(6)(c)Community structure	<p><b>Current</b> - Without planting, the converted areas would be manicured grassy areas with no established tree or shrub strata.</p> <p><b>With</b> - The Upland Mitigation Area will be planted with native, desirable, species across all strata. Nuisance/exotic vegetation will be maintained at levels of less than 10%.</p>			
<p>1. Vegetation and/or</p> <p>2. Benthic Community</p> <table border="1"> <tr> <td>w/o pres or current</td> <td>with</td> </tr> <tr> <td align="center">3</td> <td align="center">8</td> </tr> </table>		w/o pres or current	with	3
w/o pres or current	with			
3	8			

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	with
0.30	0.75

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.45

If mitigation
Time lag (t-factor) = 1.07
Risk factor = 1.00

For mitigation assessment areas
RFG = delta/(t-factor x risk) = 0.42 x 8.20 = 3.448

**PART I – Qualitative Description  
(See Section 62-345.400, F.A.C.)**

Site/Project Name Washington Park		Application Number		Assessment Area Name or Number Wetland Mitigation Area	
FLUCCs code 640		Further classification (optional)		Impact or Mitigation Site? Mitigation	
Assessment Area Size 29.65					
Basin/Watershed Name/Number Manatee River		Affected Waterbody (Class) Class III		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) NA	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands The proposed mitigation area will be connected to adjacent upland habitat that will be planted with desirable native vegetation and maintained and preserved by Manatee County government.					
Assessment area description Historical borrow pit excavated primarily in uplands prior to 1965. Currently dominated by nuisance/exotic species including cattail Brazilian pepper, and Carolina willow. This area will be subjected to nuisance/exotic vegetation removal and maintenance and replanted with desirable wetland species.					
Significant nearby features Active railway along western boundary			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not Unique		
Functions Water quality treatment and wildlife habitat			Mitigation for previous permit/other historic use No		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found ) Wading birds and small mammals			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Limited foraging by wood storks		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): NA					
Additional relevant factors:					
Assessment conducted by: E. Eardley and J. Brunty revisions made by SWFWMD staff T. Dailey)				Assessment date(s): Aug-18	

**PART II – Quantification of Assessment Area (impact or mitigation)**  
**(See Sections 62-345.500 and .600, F.A.C.)**

Site/Project Name Washington Park	Application Number	Assessment Area Name or Number Wetland Mitigation Area
Impact or Mitigation Mitigation	Assessment conducted by: E. Eardley and J. Brunty <b>revisions made by SWFWMD staff T. Dailey)</b>	Assessment date: Aug-18

<b>Scoring Guidance</b>
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed

<b>Optimal (10)</b>	<b>Moderate(7)</b>	<b>Minimal (4)</b>	<b>Not Present (0)</b>
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	<b>Current</b> - Sewage pump station to the north, abandoned grove to the northeast, residential development to the east and south, active railway to the west. No direct connection to native upland habitats.	
	<b>With</b> - Adjacent uplands will be planted with desirable native species and dedicated as a Manatee County preserve.	
w/o pres or current	with	
3	7	

.500(6)(b)Water Environment (n/a for uplands)	<b>Current</b> - Hydrology appears appropriate for supporting wetland dependent vegetation. Water quality appears significantly degraded; evidence of oil sheen and dumping.	
	<b>With</b> - Water quality will be improved through removal of debris and contamination sources. Manatee County staff will conduct regular clean ups of the wetland system and adjacent uplands contained within the preserve.	
w/o pres or current	with	
3	8	

.500(6)(c)Community structure	<b>Current</b> - Entire system dominated by nuisance/exotic vegetation including cattail ( <i>Typha latifolia</i> ), Brazilian pepper ( <i>Schinus terebinthifolius</i> ), and Carolina willow ( <i>Salix caroliniana</i> ).	
	<b>With</b> - Nuisance/exotic vegetation will be removed and maintained at levels of less than 10% across the entire system. Supplemental planting of desirable wetland species will occur.	
1. Vegetation and/or 2. Benthic Community		
w/o pres or current	with	
3	8	

Score = sum of above scores/30 (if uplands, divide by 20)	
current	with
or w/o pres	
0.30	0.77

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.47

If mitigation
Time lag (t-factor) = 1.92
Risk factor = 1.00

For mitigation assessment areas
RFG = delta/(t-factor x risk) = 0.2447 x 29.65 = 7.258