

**RIDGE ROAD INTERCHANGE WITH SUNCOAST PARKWAY 1 (Phase II)
SWFWMD/UNITED STATES ARMY CORPS OF ENGINEERS
PERMIT APPLICATION SUBMITTAL**

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SECTION I INTRODUCTION

I-1 Project Description

The Ridge Road Interchange with Suncoast Parkway 1 (Phase II) is associated with Pasco County Development Services (Pasco County) Ridge Road Extension (RRE) project. Pasco County is proposing to extend Ridge Road to the east and the Turnpike Enterprise has agreed to design, permit and construct a full diamond interchange at the confluence of Ridge Road and the existing Suncoast Parkway 1. The proposed Ridge Road Extension crosses the Suncoast Parkway at a point 7.10 miles north of SR 54 and 3.56 miles south of SR 52. The project is located in Sections 25 and 30, Range 17 and 18 east, Township 25 south (see Location Map, Figure I-1; Vicinity map, Figure I-2).

Pasco County included the interchange location, design and wetland impacts in their submittal for permits to the regulatory agencies. Therefore, the interchange and the associated wetland impacts were shown in the United States Army Corps of Engineers (USACE) Public Notice for this project. The Public Notice was dated February 2, 2000. This project is being submitted as a modification to Pasco Counties ERP Permit No. 43018792.004 and as additional information to the USACE permit application to link Phase 1 and 2 of the Ridge Road Extension. This submittal shows the final design of the interchange and its associated surface water management system. The submittal also serves to evaluate and justify the proposed wetland impacts and provide SWFWMD and the USACE with a mitigation plan to offset these impacts.

I-2 Habitat Description

To the east of the Suncoast Parkway 1 the land is in agriculture. The wetland systems in the eastern quadrant of the project area have experienced extensive disturbances related to the agricultural activities, including ditching. The agricultural practices, including livestock grazing, have adversely impacted the upland buffers, ecotones, non-forested wetlands and in some instances, forested wetlands relative to natural conditions.

To the west of the Suncoast Parkway 1 the project area is mostly in areas designated as conservation lands with the exception of a small portion of uplands adjacent to borrow pits. The conservation land is owned by the Southwest Florida Water Management District (SWFWMD) and was given to them as mitigation for the impacts associated with Suncoast Parkway 1. A total of 93.58 acres within and adjacent to the proposed interchange is still owned by the Florida Department of Transportation, Turnpike Enterprise (Turnpike). The remaining Turnpike land not used for the interchange (86.41 acres) will ultimately be transferred to SWFWMD as mitigation for the wetland impacts associated with this project. This acreage will add to SWFWMD's existing conservation property known as Serenova. The wetlands proposed for impacts consist of herbaceous and forested systems as well as a small open water system

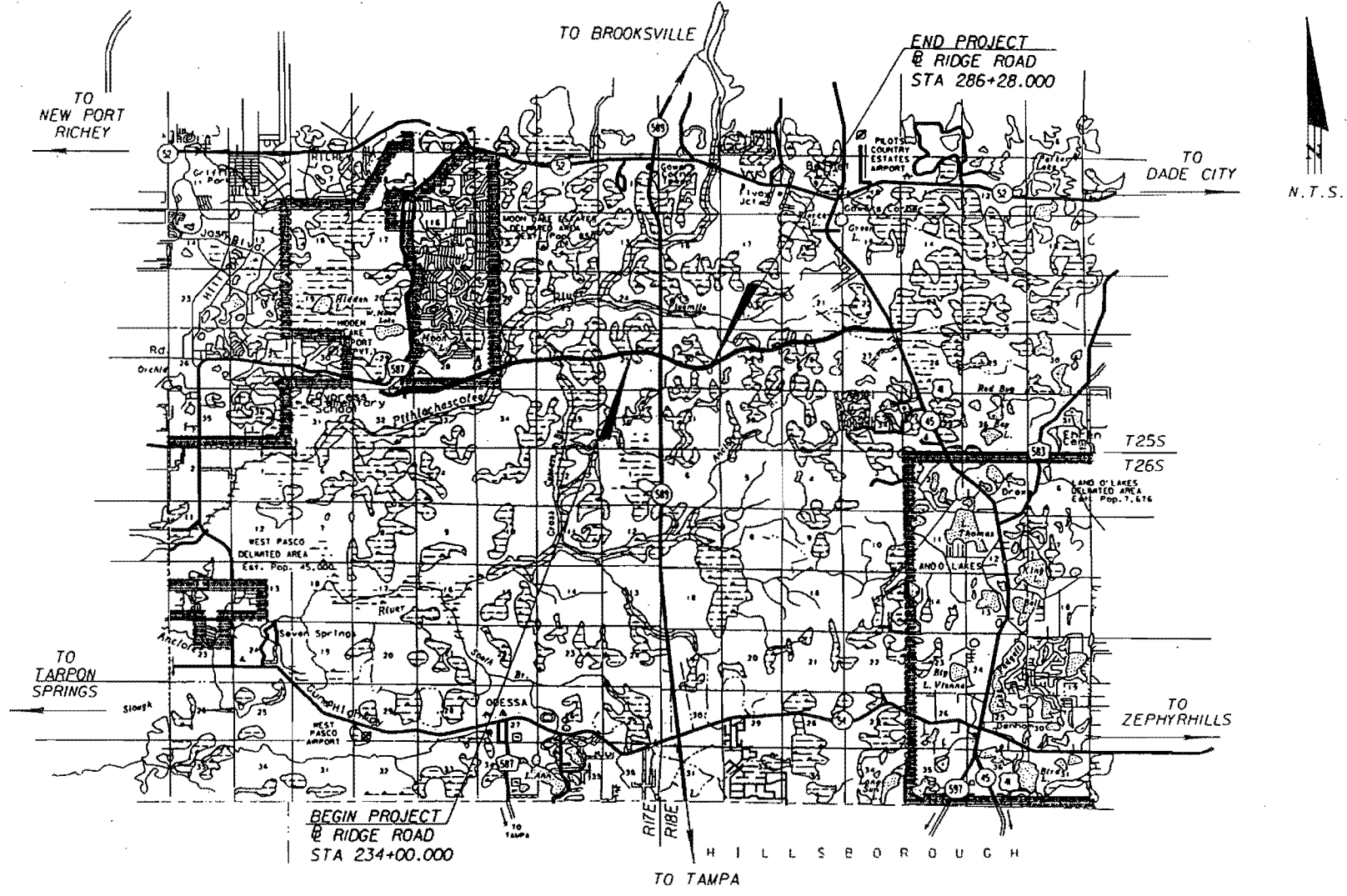


FIGURE I-1

LOCATION MAP

SOURCE: USGS QUADRANGLE MAP



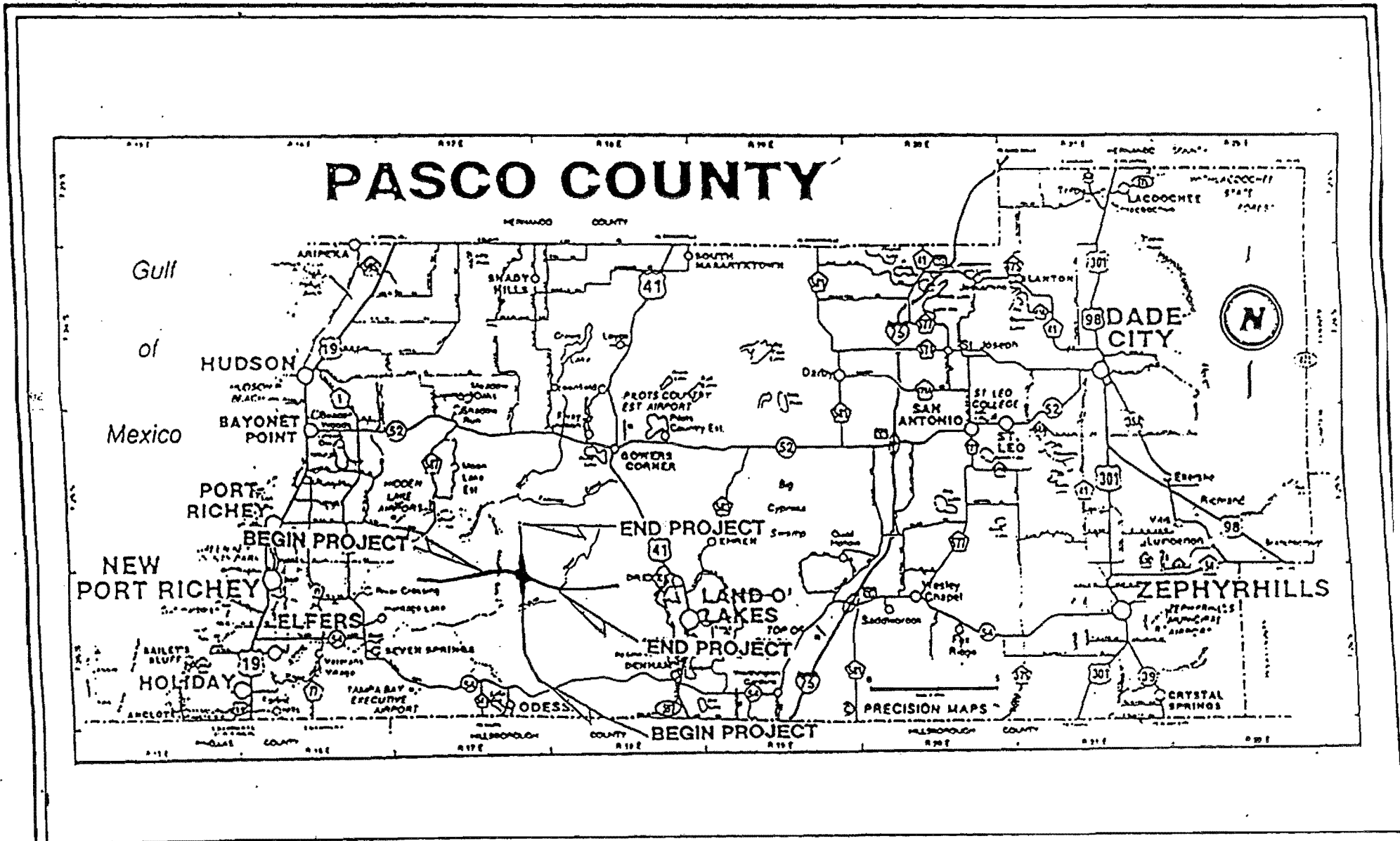


FIGURE I-2

VICINITY MAP

SOURCE: GENERAL HIGHWAY MAP



excavated at the edge of a historic cypress system. Where the area has not been cleared, the upland habitat is generally Pine Flatwoods or Rangeland. Although some of the wetland systems and surrounding ecotones have been altered by human disturbance, the wetlands on the west side are less disturbed than the wetlands in the agricultural areas to the east. The Florida Land Use, Cover and Forms Classification System (FLUCFCS) map for the interchange area is included as Figure I-3. A breakdown of FLUCFCS habitat acreages and percentages is shown in Table I-1.

According to the Soil Conservation Service soil survey of Pasco County, the soils within the project area consist of nearly level fine sands. The seasonal high groundwater table ranges from zero to 3.5 feet below the existing ground in the uplands and up to two feet above the ground in the wetlands. Figure I-4 shows the soil types within the project limits, and Table I-2 indicates the soil types and their properties.

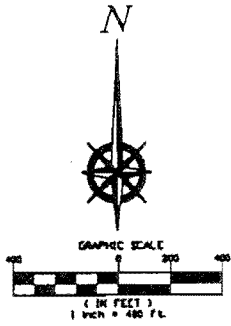
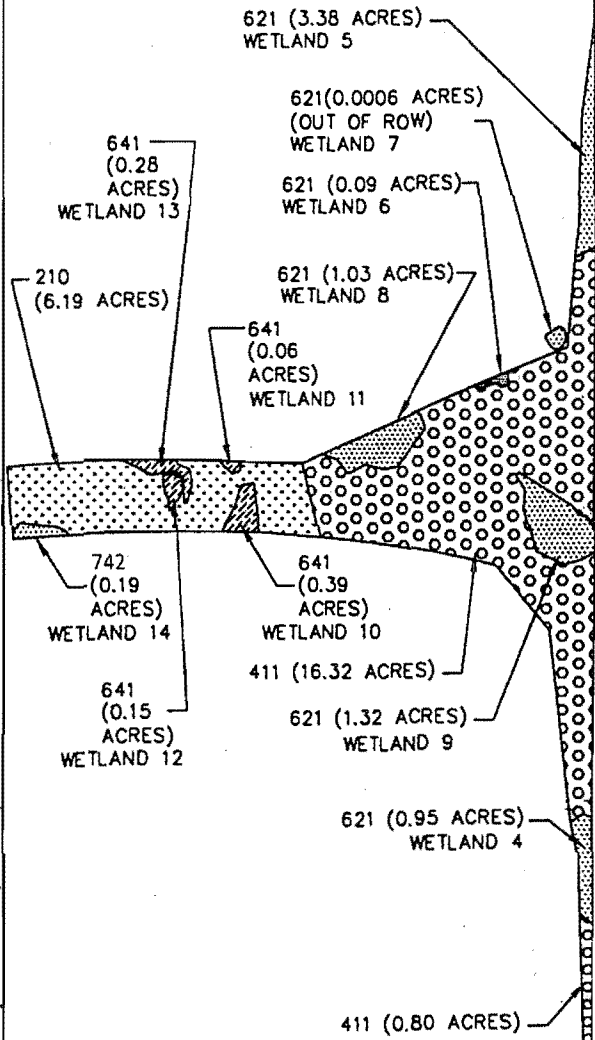
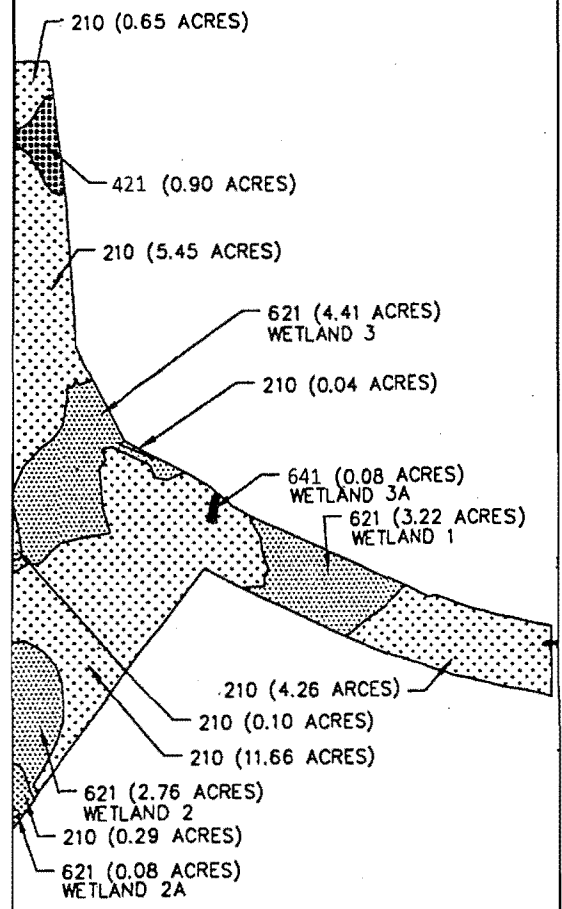


FIGURE I-3
 SUNCOAST PARKWAY & RIDGE
 ROAD INTERSECTION
 SECTION 3
 REVISED FLUCFCS MAPPING
 FOR RIDGE ROAD
 INTERCHANGE



PERMITTED SUNCOAST PARKWAY IMPACTS



**Table I-1
FLUCFCS Acreages and Percentages**

FLUCFCS	DESCRIPTION	TOTAL HABITAT (acres)	TOTAL HABITAT (percentage)
210	Cropland and Pastureland	28.64	44.03
411	Pine Flatwoods	17.12	26.32
421	Xeric Oak	0.90	1.38
621	Cypress	17.24	26.50
641	Freshwater Marsh	0.96	1.48
742	Borrow Areas	0.19	0.29
TOTAL		65.05	100

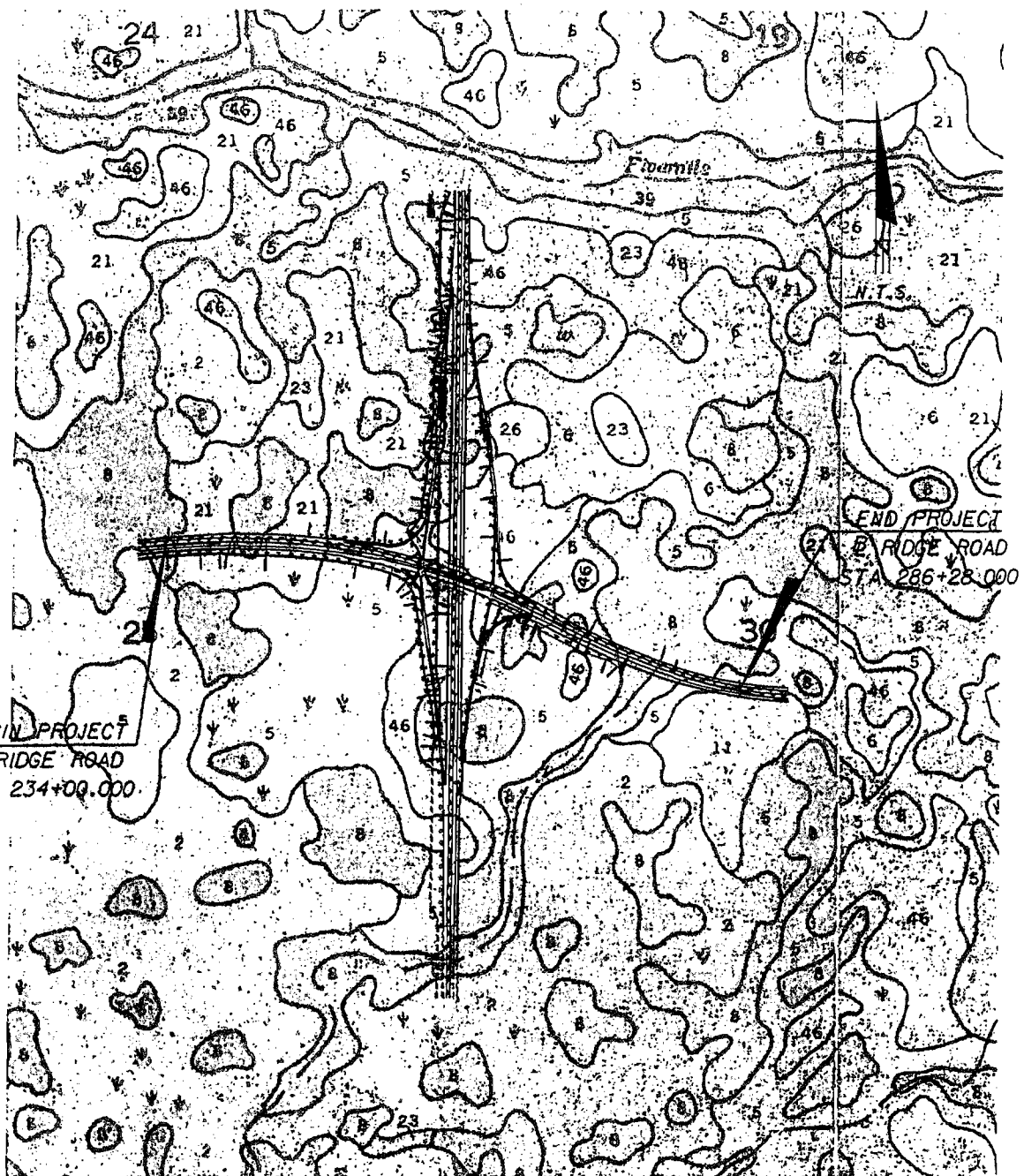


FIGURE I-4

SOILS MAP

SOURCE: SCS SOILS MAP



**Table I-2
Soil Types and Properties**

Map Symbol	Soil Name	Soil Type	Description	Hydrologic Group	Depth to SHW (ft)
5	Myakka	Fine Sand	Nearly level, poorly drained	B/D	0 - 1.0
8	Sellers	Mucky loamy, Fine Sand	Nearly level, very poorly drained	B/D	+2.0
11	Adamsville	Fine Sand	Nearly level, somewhat poorly drained	C	2.0 - 3.5
21	Smyrna	Fine Sand	Nearly level, poorly drained	A/D	0 - 1.0
46	Cassia	Fine Sand	Nearly level to gently sloping, somewhat poorly drained	C	1.5 - 3.5

SECTION II ENVIRONMENTAL IMPACTS

II-1 Wetland Impacts

Proposed wetland impacts from this project total 11.82 acres. As previously discussed the wetland impacts are to mostly disturbed herbaceous, forested and aquatic wetland systems. The project location has already been set due to the limits of the Ridge Road Extension proposed by Pasco County and the location of the existing bridge constructed over the Suncoast Parkway in Phase I of the project. Minimization steps were taken during the design to minimize the footprint of the construction limits of the interchange project. The locations of the wetlands within the project area and the FLUCFCS designation of each wetland and upland area are shown on figure I-3, in the previous section. The wetland impacts proposed for the project along with the Wetland Rapid Assessment Procedure (WRAP) and Uniform Mitigation Assessment Method (UMAM) scores for each wetland are outlined in Table II-1 and Table II-2. In addition, SWFWMD's Table 1 is included in Section E of the ERP application. Dredge and fill sketches are also included in Section C and Section E of the ERP permit application.

Many of the wetland impacts associated with the interchange are small. The impacts to individual wetlands range from less than 0.01 acres to 3.91 acres. As part of the avoidance and minimization process, the conceptual design was thoroughly analyzed and the alignment established to minimize encroachment into these wetlands with consideration given to road safety and design requirements. In most cases, impacts to wetlands occur at the edge of systems, and due to prior agricultural land uses, many of these edges and transition zones have been previously disturbed.

Each wetland proposed for impact was evaluated using WRAP and UMAM in May of 2009. The worksheets showing the results of the WRAP and UMAM evaluations along with pictures of the wetland systems are located in Appendix 1.

There are no cumulative wetland impacts associated with this project as mitigation will take place within the same drainage basin. Secondary impacts associated with this project are negligible. The interchange area is immediately adjacent to the Suncoast Parkway 1 project where secondary impacts to wetlands were calculated and mitigated for within the Serenova and Anclote River Ranch tracts. Pasco County calculated the secondary impacts from Moon Lake Road all the way to U.S. 41 as part of the RRE. Therefore, due to the two roadway corridors already evaluated in this area and the impacted nature of the surrounding land, no secondary impacts are associated with this project.

**Table II-1
Proposed Wetland Impacts and WRAP Scores**

Wetland Number	FLUCFCS	Acreage in Project Limits	Preserved Acreage	Proposed Impact Acreage	WRAP Scores*	Functional Loss**
1	621	3.22	0.16	3.06	0.53	1.62
2	630	2.76	2.07	0.69	0.39	0.27
2a	641	0.08	0.05	0.03	0.23	0.01
3	621	4.41	0.50	3.91	0.38	1.49
3a	641	0.08	0.01	0.07	0.27	0.02
4	630	0.95	0.41	0.54	0.61	0.33
5	630	3.38	2.10	1.28	0.62	0.79
6	641	0.09	0.09	0.00	N/A	N/A
7	621	0.00	0.00	0.00	N/A	N/A
8	641	1.03	1.03	0.00	N/A	N/A
9	621	1.32	0.00	1.32	0.76	1.00
10	641	0.39	0.04	0.35	0.52	0.18
11	641	0.06	0.01	0.05	0.52	0.03
12	641	0.15	0.00	0.15	0.52	0.08
13	641	0.28	0.06	0.22	0.52	0.11
14	742	0.19	0.04	0.15	0.59	0.09
TOTAL		18.39	6.57	11.82		6.02

* WRAP scores based on May 21, 2009 evaluation. WRAP sheets and pictures of wetlands located in Appendix A of this submittal.

** Functional Loss is calculated by multiplying the WRAP score by the Proposed Impact Acreage for each wetland.

**Table II-2 (Revised)
Proposed Wetland Impacts and UMAM Scores**

Wetland Number	FLUCFCS	Acreage in Project Limits	Preserved Acreage	Proposed Impact Acreage	UMAM Scores*	Functional Loss**
1	621	3.22	0.16	3.06	0.57	1.74
2	630	2.76	2.07	0.69	0.47	0.32
2a	641	0.08	0.05	0.03	0.27	0.01
3	621	4.41	0.50	3.91	0.47	1.84
3a	641	0.08	0.01	0.07	0.27	0.02
4	630	0.95	0.41	0.54	0.6	0.32
5	630	3.38	2.10	1.28	0.6	0.77
6	641	0.09	0.09	0.00	N/A	N/A
7	621	0.00	0.00	0.00	N/A	N/A
8	641	1.03	1.03	0.00	N/A	N/A
9	621	1.32	0.00	1.32	0.77	1.02
10	641	0.39	0.04	0.35	0.53	0.19
11	641	0.06	0.01	0.05	0.53	0.03
12	641	0.15	0.00	0.15	0.5	0.08
13	641	0.28	0.06	0.22	0.53	0.12
14	742	0.19	0.04	0.15	0.57	0.09
TOTAL		18.39	6.57	11.82		6.55

* UMAM scores based on May 21, 2009 evaluation. UMAM sheets and pictures of wetlands located in Appendix A of this submittal.

** Functional Loss is calculated by multiplying the UMAM score by the Proposed Impact Acreage for each wetland.

A description of all of the wetlands within the Ridge Road Interchange R/W follows:

Wetland 1 (identified in Pasco County's Ridge Road application as W26) - This wetland is a previously logged contiguous cypress system with the transitional marsh edge turned into wet pasture. The FLUCFCS designation for this system is 621. Wetland 1 is a medium quality cypress system surrounded by wet pasture of low quality. The wet pasture characteristically has been utilized for cattle grazing in recent decades. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 3.22 acres and 3.06 acres will be impacted by the project. The roadway alignment unavoidably bisects this wetland. However, avoidance and minimization techniques include utilizing 2:1 side slopes and limited clearing and grubbing to those areas necessary for construction.

Wetland 2 - This wetland is a remnant portion of a wetland previously identified as Wetland 3-1A and the original configuration was bisected by the Suncoast Parkway. Wetland 2 is a previously logged contiguous ditched cypress-hardwood swamp system associated with a small area of wet pasture of low quality and is surrounded by improved pasture and the Suncoast Parkway R/W. The FLUCFCS designation for this system is 621. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 2.76 acres and 0.69 acres will be impacted by the project. The majority of the impacts to this wetland occur within the existing permitted Suncoast Parkway R/W. Avoidance and minimization techniques include shifting the direct impact zone, utilizing 2:1 side slopes, location of water management facilities outside of the wetlands, and limited clearing and grubbing to those areas necessary for construction.

Wetland 2a – This wetland area is a small wet pasture area adjacent to the ditch that connects Wetland 2 to the system to the south. The FLUCFCS designation for this system is 641. This wet pasture was impacted during Phase 1 of the Ridge Road Interchange project to accommodate the partial northbound off-ramp from the Suncoast Parkway. A total of 0.03 acres was impacted by this previous construction but the mitigation is being addressed as part of this Phase 2 project. This was agreed upon during meetings back in 2000 and handled through a Letter Modification for Suncoast Parkway 1, Section 2B. Avoidance and minimization techniques included shifting the direct impact zone, utilizing 2:1 side slopes and limited clearing and grubbing of those areas necessary for construction.

Wetland 3 (identified in Pasco County's Ridge Road application as W24 & W25) – This wetland is a previously logged contiguous ditched cypress system surrounded by a disturbed marsh/wet pasture. The FLUCFCS designation for this system is 621. This system is connected via an

upland-cut ditch to Wetland 1 (W26). A portion of this wetland occurs within the existing permitted Suncoast Parkway project R/W. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 4.41 acres and 3.91 acres will be impacted by the project. Avoidance and minimization techniques used include shifting the direct impact zone, utilizing 2:1 side slopes, location of water management facilities outside of the wetland and limited clearing and grubbing of those areas necessary for construction.

Wetland 3A ((identified in Pasco County's Ridge Road application as W26) – This wetland is described as a contiguous ditched marsh system. The FLUCFCS designation for this system is 641. Wetland 3A is a low quality disturbed marsh surrounding a logged cypress system, and is connected via an upland-cut ditch to Wetland 1 (W26). The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 0.08 acres and 0.07 acres will be impacted by the project. Avoidance and minimization techniques used include shifting the direct impact zone, utilizing 2:1 side slopes and limited clearing and grubbing of those areas necessary for construction.

Wetland 4 - This wetland is a remnant piece of a wetland previously identified in Section 3 of the Suncoast Parkway as Wetland 3-1A, and the original configuration was bisected by the Suncoast Parkway. Wetland 4 is previously logged contiguous, ditched cypress-hardwood system surrounded by pine flatwoods. The FLUCFCS designation for this system is 621. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 0.95 acres and 0.54 acres will be impacted by the project. The majority of this wetland occurs within the existing permitted Suncoast Parkway R/W and construction impacts will occur along the eastern edge of this remnant system. Avoidance and minimization techniques used include shifting the direct impact zone, utilizing 2:1 side slopes and limited clearing and grubbing of those areas necessary for construction.

Wetland 5 – This wetland is a wetland previously identified during the permitting of the Suncoast Parkway as Wetlands 3-2A and 3-2B, and is described as a contiguous cypress-hardwood system. The FLUCFCS designation for this system is 621. Wetland 5 is a medium quality mixed hardwood and cypress system surrounded by a shrub ecotone. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 3.38 acres and 1.28 acres will be impacted by the project. The roadway and bike trail alignment will traverse the eastern portion of the wetland. Avoidance and minimization techniques include shifting the direct impact zone, utilizing 2:1 side slopes, location of water management facilities (Pond 2) outside of sensitive areas, and limited clearing and grubbing of those areas necessary for construction.

Wetland 6 (identified in Pasco County's Ridge Road application as W22) - This wetland is an undisturbed marsh system adjacent to a high quality contiguous cypress system surrounded by pine flatwoods. The FLUCFCS designation for this system is 641. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 0.09 acres and none of it will be impacted by the project.

Wetland 7 (identified in Pasco County's Ridge Road application as W22) – This wetland was flagged by SWFWMD and the USACE as an isolated cypress system less than 0.5 acres in size, surrounded by pine flatwoods. However, this wetland has been determined to be hydrologically connected to Wetland 6 at an elevation below the seasonal high water elevations of the two systems. The FLUCFCS designation for this system is 621. This wetland is located immediately adjacent to the project R/W and no impacts are proposed.

Wetland 8 (identified in Pasco County's Ridge Road application as W22) – This wetland is an undisturbed marsh system adjacent to a high quality contiguous cypress system, surrounded by pine flatwoods. The FLUCFCS designation for this system is 641. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 1.03 acres but none of this wetland will be impacted by the project. Avoidance and minimization techniques include shifting the direct impact zone, utilizing 2:1 side slopes and limited clearing and grubbing of those areas necessary for construction.

Wetland 9 (identified in Pasco County's Ridge Road application as W23) – This wetland is a high quality isolated cypress system, surrounded by pine flatwoods. The FLUCFCS designation for this system is 621. Wetland 9 is 1.32 acres in size and is entirely within the proposed R/W. The entire system will be impacted. Avoidance and Minimization techniques were unsuccessful in avoiding the impacts to this system due to its location within the project site.

Wetland 10 (identified in Pasco County's Ridge Road application as W21) – This wetland is a disturbed isolated marsh system, surrounded by improved pasture. The FLUCFCS designation for this system is 641. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 0.39 acres and 0.35 acres will be impacted by the project. Avoidance and minimization techniques include shifting the direct impact zone, utilizing 2:1 side slopes and limited clearing and grubbing of those areas necessary for construction.

Wetland 11 (identified in Pasco County's Ridge Road application as W21) – This wetland is a highly disturbed isolated marsh system, surrounded by improved pasture. The FLUCFCS

designation for this system is 641. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 0.06 acres and 0.05 acres will be impacted by the project. Avoidance and minimization techniques include shifting the direct impact zone, utilizing 2:1 slide slopes and limited clearing and grubbing of those areas necessary for construction.

Wetland 12 (identified in Pasco County's Ridge Road application as W20) – This wetland is an isolated excavated marsh system, surrounded by improved pasture and an adjacent marsh system. The FLUCFCS designation for this system is 641. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 0.15 acres and the entire system will be impacted by the project. Avoidance and minimization techniques include shifting the direct impact zone, utilizing 2:1 side slopes and limited clearing and grubbing of those areas necessary for construction.

Wetland 13 (identified in Pasco County's Ridge Road application as W19) – This wetland is a disturbed isolated marsh system, surrounded by improved pasture and an adjacent marsh system. The FLUCFCS designation for this system is 641. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 0.28 acres and 0.22 acres will be impacted by the project. Avoidance and minimization techniques include shifting the direct impact zone, utilizing 2:1 side slopes and limited clearing and grubbing of those areas necessary for construction.

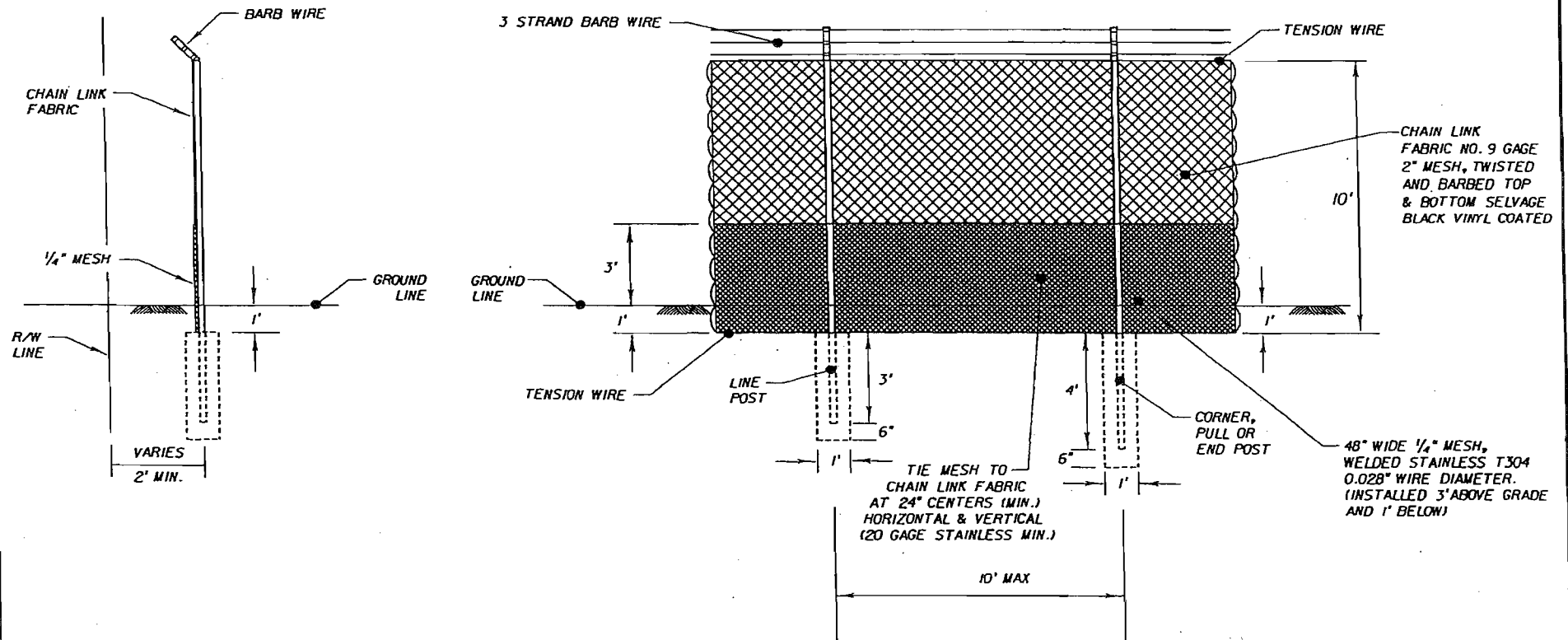
Wetland 14 (identified in Pasco County's Ridge Road application as W17) – This wetland is a contiguous dredged pond system adjacent to a cypress swamp and improved pasture. The FLUCFCS designation for this system is 742. The portion of this wetland within the Suncoast Parkway/Ridge Road Interchange R/W totals 0.19 acres and 0.15 acres will be impacted by the project. Avoidance and minimization techniques include shifting the direct impact zone, utilizing 2:1 side slopes and limited clearing and grubbing of those areas necessary for construction.

II-2 Upland Impacts

As discussed previously, impacts to uplands are limited to mainly agricultural areas east of the Suncoast Parkway 1. This area is presently used for cattle grazing and therefore the uplands have been transformed to pasture land. Upland areas west of the Suncoast Parkway are primarily fallow improved pasture and pine flatwoods. Flora and Fauna studies were undertaken as part of RRE project. It was confirmed with the USFWS (Todd Mecklenborg) and FFWCC (represented by Terry Gilbert) that no further wildlife studies need to be undertaken as

part of this project, other than specific purpose surveys for species such as the gopher tortoise (*Gopherus polyphemus*), gopher frog (*Rana capito*) and burrowing owl (*Athene cunicularia*). The USFWS completed a Biological Opinion on May 22, 1996 that covers the RRE and according to Mr. Mecklenborg this document covers the area of the interchange. In addition to Pasco County's evaluations and the many years worth of wildlife evaluations associated with the Suncoast Parkway 1 and Phase I of the interchange permitting process undertaken between 1994 and 2000, additional evaluations were completed by the Turnpike Enterprise as part of this interchange project (Phase II). An initial evaluation of the wetlands along with opportunistic sightings in the uplands was done on May 21, 2009. Following that sight visit, specific wildlife surveys were undertaken on March 19, 2010 for the gopher tortoise, gopher frog and burrowing owl while noting any other opportunistic sightings of other listed wildlife species. These studies were done according to published methods by the FFWCC and USFWS. The results of the surveys showed that there are no active gopher tortoise burrows within the right of way for the interchange. In addition, no gopher frogs or burrowing owls were found during these studies. These studies will be undertaken again prior to construction to confirm the absence of these and other species in the R/W. Appendix B includes data sheets and notes from the wildlife surveys undertaken.

Special 10-foot Type B Wildlife Fencing (Figure II-1) is proposed along the R/W line of the interchange west of the Suncoast Parkway 1. This fence will be a continuation of the fencing used by Pasco County on the RRE through Serenova and will tie into the 10-foot high wildlife fence utilized on the Suncoast Parkway 1. This special fence is being utilized at the request of the USFWS.



SPECIAL 10' TYPE B FENCE DETAIL
(WILDLIFE BARRIER)

Figure II- 1 Special Fence Detail – Type B Fence Detail @ R/W Line West of Suncoast Parkway 1

SECTION III WETLAND MITIGATION

III-1 Wetland Mitigation Discussion

As discussed in Section 2, the proposed wetland impacts for this project total 11.82 acres. The wetland impacts are to mostly disturbed herbaceous, forested and aquatic wetland systems. The proposed wetland mitigation for this project represents a combination of proposals to offset the impacts. The mitigation plan consists of three concepts that alone or in combination will provide more mitigation than is required when assessed by any of the wetland evaluation methods used. The approach of outlining three concepts was at the direction of SWFWMD.

III-2 Wetland Mitigation Concepts

III-2.1 Cone Borrow Pit Property

It is proposed that 86.41 acres of land presently under the ownership of the Florida Department of Transportation, Turnpike Enterprise will be turned over to SWFWMD. This property consists of approximately 64.61 acres of borrow ponds and 21.80 acres of rangeland adjacent to the borrow areas (Figure III-1). The mitigation areas will be located in two regions; one region south of the proposed interchange and one region north of the proposed interchange. The mitigation areas will add to the existing Serenova conservation area presently owned by SWFWMD.

WRAP and UMAM evaluations of the proposed wetland mitigation areas were completed to show the functional gain associated with the plan. Table III-1 shows the results of the WRAP analysis and Table III-2 shows the results of the UMAM analysis. As can be seen in Table III-1 and III-2, based on the WRAP and UMAM evaluations, the addition of the 86.41 acres to the Serenova Preserve, by itself, compensates for the wetland impacts associated with the project. SWFWMD's Table 3 (Project Off-site Mitigation Summary) is also included in Section E of the ERP application.

III-2.2 Excess Mitigation Credits from Suncoast Parkway Project 1

On November 18, 1997, ERP permit #4315724.00 was issued by the SWFWMD. This permit represented the mitigation plan for the entire 42 miles of the Suncoast Parkway Project 1. The mitigation plan was for the preservation of 10,168.58 acres of land known as the Serenova and Anclote River Ranch tracts. Calculations were done and approved by SWFWMD that showed that there are excess mitigation credits associated with the

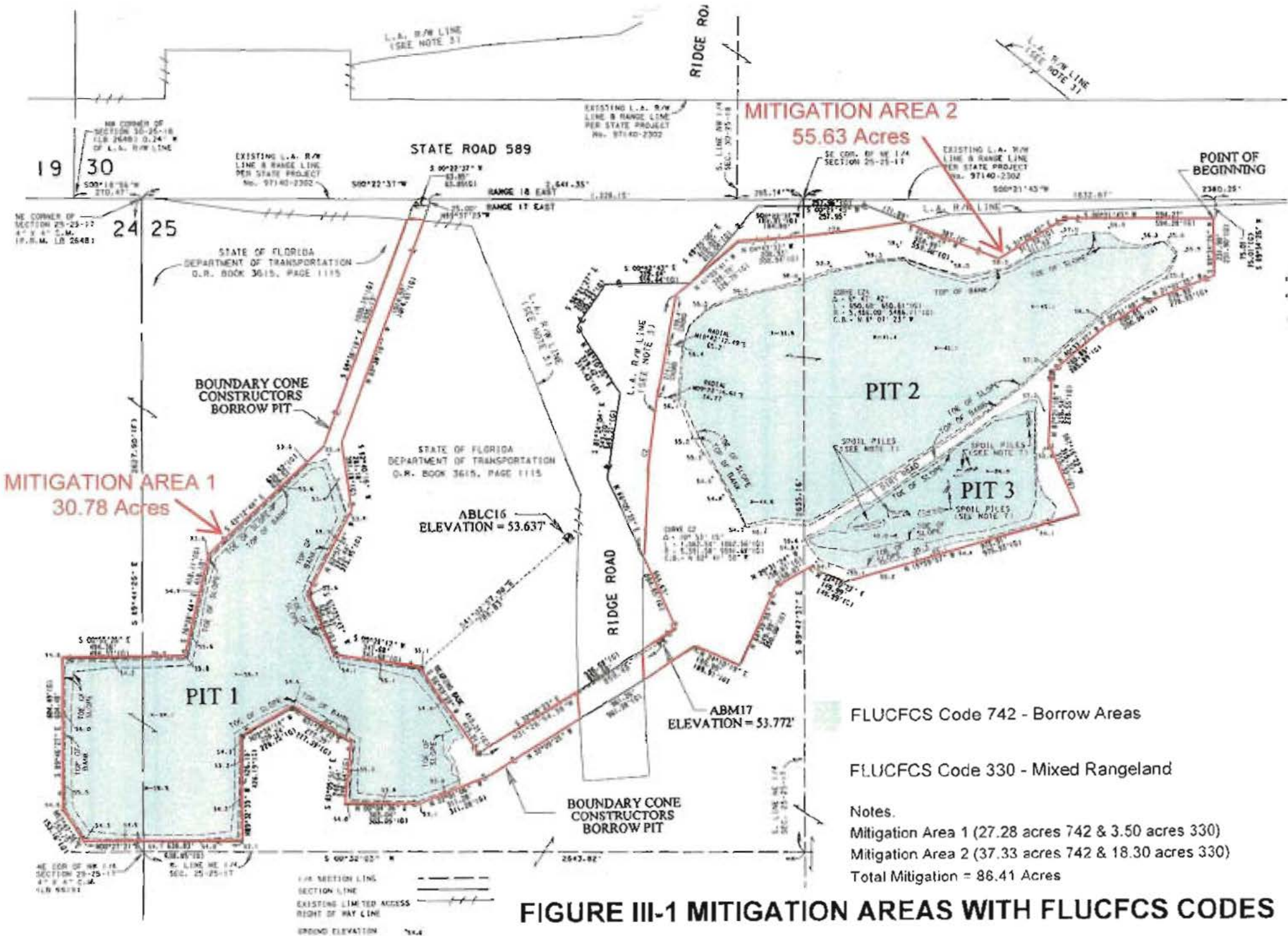


FIGURE III-1 MITIGATION AREAS WITH FLUCFCS CODES

FLUCFCS Code 742 - Borrow Areas

FLUCFCS Code 330 - Mixed Rangeland

- Notes.
- Mitigation Area 1 (27.28 acres 742 & 3.50 acres 330)
 - Mitigation Area 2 (37.33 acres 742 & 18.30 acres 330)
 - Total Mitigation = 86.41 Acres

**Table III-1
Proposed Wetland Mitigation - WRAP Determination of Functional Gain**

Wetland Number	FLUCFCS	Proposed Impact Acreage	WRAP Scores*	Functional Loss Units**	Mitigation Relative Functional Gain (WRAP Score)	Acreage of Mitigation	Functional Gain Units	Variance***
1	621	3.06	0.53	1.62	0.15	64.61	9.69	3.66
2	630	0.69	0.39	0.27				
2a	641	0.03	0.23	0.01				
3	621	3.91	0.38	1.49				
3a	641	0.07	0.27	0.02				
4	630	0.54	0.61	0.33				
5	630	1.28	0.62	0.79				
6	641	0.00	N/A	N/A				
7	621	0.00	N/A	N/A				
8	641	<0.01	0.82	0.01				
9	621	1.32	0.76	1.00				
10	641	0.35	0.52	0.18				
11	641	0.05	0.52	0.03				
12	641	0.15	0.52	0.08				
13	641	0.22	0.52	0.11				
14	742	0.15	0.59	0.09				
TOTAL		11.82		6.03				

* WRAP scores based on May 21, 2009 evaluation. WRAP sheets and pictures of wetlands located in Appendix A of this submittal.

** Functional Loss Units are calculated by multiplying the WRAP score by the Proposed Impact Acreage for each wetland.

*** Functional Gain Units minus Functional Loss Units

**Table III-2
Proposed Wetland Mitigation - UMAM Determination of Functional Gain**

Wetland Number	FLUCFCS	Proposed Impact Acreage	UMAM Scores*	Functional Loss Units**	Mitigation Relative Functional Gain (UMAM Score)***	Acreage of Mitigation	Functional Gain Units	Excess Mitigation Units****
1	621	3.06	0.57	1.74	0.09	86.41	7.78	1.4
2	630	0.69	0.47	0.32				
2a	641	0.03	0.2	0.01				
3	621	3.91	0.43	1.68				
3a	641	0.07	0.2	0.01				
4	630	0.54	0.6	0.32				
5	630	1.28	0.6	0.77				
6	641	0.00	N/A	N/A				
7	621	0.00	N/A	N/A				
8	641	<0.01	0.8	0.01				
9	621	1.32	0.77	1.02				
10	641	0.35	0.5	0.18				
11	641	0.05	0.5	0.03				
12	641	0.15	0.5	0.08				
13	641	0.22	0.53	0.12				
14	742	0.15	0.57	0.09				
TOTAL		11.82		6.38				

* UMAM scores based on May 21, 2009 evaluation. UMAM sheets and pictures of wetlands located in Appendix A of this submittal.

** Functional Loss Units are calculated by multiplying the UMAM score by the Proposed Impact Acreage for each wetland.

*** Adjusted Mitigation Delta from UMAM Quantification Form

**** Functional Gain Units minus Functiona Loss Units

mitigation proposal. The calculations can be found in the Suncoast Parkway Project 1 ERP File of Record as Tables II-2 and II-3 (and worksheet for Table II-3). These calculations showed that there are 9.22 additional credits even though an additional 5% contingency of wetland impacts was added to the wetland impact total in case additional wetlands were impacted during construction of the Suncoast Parkway Project 1. The additional impacts did not occur during construction and therefore the 5% contingency is not applicable to the Suncoast Parkway 1 project. In addition there were 386.7 acres of wetlands that were enhanced within the mitigation area that were not even used in the calculations for mitigation credits.

The basis of this mitigation concept is to recalculate the mitigation credits based on the impacts associated with this interchange project. The calculations were revised adding in the additional impacts associated with the interchange project while removing the 5% contingency added to the impacts prior to the construction of the Suncoast Parkway Project 1. The revised calculations show that there are still 4.82 excess credits within the mitigation area associated with the Suncoast Parkway Project 1. The original tables approved by the mitigation permit as well as the revised sheets (revised acreages are shaded) are included in Appendix C. Therefore, this proposal, by itself, will compensate for the wetland impacts associated with the interchange project, without taking credit for wetland enhancement within the mitigation area, or the Cone borrow pits discussed above.

III-2.3 Chapter 373.4137 Florida Statutes

Since approximately 1998, SWFWMD has had a "Regional Mitigation Plan" ready for the proposed 11.82 acres of wetland impacts associated with this project. The plan is based on the utilization of a parcel of land SWFWMD calls the "Serenova Extension". This is a parcel of land currently owned by the Turnpike adjacent to the northwestern portion of Serenova. The plan has been revised slightly over the years based on utilization of some of the land for storm water treatment and floodplain compensation for SR 52 widening.

The issue with this proposal is that there is approximately 215 acres of land on the parcel and based on SWFWMD's description it is made up of "a variety of high quality native habitats". Therefore, this parcel is too much mitigation for the 11.82 acres of wetland impacts associated with this interchange project. In addition, Turnpike does not want to sell this land at this time.

Turnpike understands that Chapter 373.4137 Florida Statutes sets out the criteria for a "Mitigation Program" on FDOT projects. However, the Turnpike feels that the addition

of the borrow areas to the Serenova Preserve or the excess mitigation credits from Suncoast Parkway 1 more than mitigates for the wetland impacts associated with this interchange project. Therefore, the mitigation plans in Sections III-2.1 and III-2.2 should be acceptable.

If SWFWMD still feels that it is necessary to utilize the "Mitigation Program" for a portion of the impacts from this project, Turnpike is not ready to sell the Serenova Extension property at this time. If it is feasible to revise the plan so that mitigation dollars can go towards the purchase of mitigation credits at the Conner Tract, Turnpike is willing to discuss the number of credits that would still be necessary in combination with the previously described mitigation plan.

III-3 Mitigation History/Summary

As presented above, based on meetings with SWFWMD, there are three alternatives to mitigate for wetland impacts associated with this project. The Turnpike looks at this project as a continuation of the Suncoast Parkway 1 project that was permitted in 1997. At that time a bridge over the Suncoast Parkway 1 was permitted and ramps were built in all four quadrants within the existing R/W but the limits of construction stopped before any wetland impacts took place. The full interchange was not constructed at that time as Pasco County did not have permits and if the RRE project never materialized it was not seen as prudent to complete the interchange. We divided the interchange into two phases. Phase 1 was the construction of the bridge and the partial construction of the ramps to a point that did not impact any wetlands. Phase 2 has been delayed for nearly ten years now since Pasco County has not received all of the necessary permits. Phase 2 of the Ridge Road Interchange with the Suncoast Parkway 1 was always proposed and again is a continuation of the Suncoast Parkway 1 project. The construction of the associated bridge and partial ramps (Phase 1) was accomplished in order to facilitate a smooth process of permitting and building phase 2 of the project.

The mitigation for the interchange is also a continuation of the Suncoast Parkway 1 project. There are excess mitigation credits that are available based on the permitting of the over 10,000 acres of mitigation property now in SWFWMD ownership. The Turnpike has showed that even with the 11.82 acres of wetland impacts associated with the interchange that the credits within Serenova and Anclote River Ranch properties are still sufficient to offset the impacts. In addition to the excess credits, Turnpike is also giving SWFWMD 86.41 acres of land that is contiguous to the Serenova parcel. This will add to the land already owned and managed by SWFWMD and has value as preservation lands. The calculations of mitigation value, both by WRAP and UMAM, indicate that this proposal offsets the impacts of the project as well. A discussion of Chapter 373.4137 Florida Statutes is included above as another option if deemed

necessary by SWFWMD. The Turnpike Enterprise does not feel any additional mitigation is required over and above the first two options discussed above.

APPENDIX A

WRAP and UMAM Evaluations and Pictures

WETLAND WRAP EVALUATIONS

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Post/Gaines	Wetland Type Wetland #1
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Land Use Improved Pasture	FLUCCS Code 621 Description: Cypress	Wetland Acreage 3.06
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Wildlife Utilization (WU) 1.5	Wetland Canopy (O/S) 1.5	Wetland Ground Cover (GC) 1.5
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Habitat Support / Buffer	Field Hydrology (HYD) 2.0	WQ Input & Treatment (WQ) 1.7
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Buffer Type (Score) X (% of area) = Sub Totals

621	2.0	60%	1.2
211	0.5	40%	0.2
			TOTAL
			1.4

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)	Pretreatment Category (PT)
------------------------	----------------------------

Land use Category	Score X (% of area) = Sub Totals		
Cypress range/log	2.5	60%	1.5
Improved pasture	1.0	40%	0.4
			TOTAL
			1.9

Pretreat. Category	(Score) x (% of area) = Sub Totals		
Cypress range	2.5	60%	1.5
No treatment	0.0	30%	0.0
			TOTAL
			1.5

WRAP Score

0.53

Field Notes: (Pictures 65, 66 and 67)

Wildlife Utilization (WU)	towhee; northern parula warbler, wren; raccoon, bobcat. buffer cleared around entire system
Wetland Canopy (O/S)	<i>Taxodium ascendens; Pinus elliotii; Ilex cassine; Persea palustris</i>
Wetland Ground Cover (GC)	<i>Cladium jamaicense; Woodwardia virginica; Axonopus sp.; Amphicarpum muhlenbergianum; Lyonia lucida; Myrica cerifera; Serenoa repens; Stillingia aquatic; Rubus sp.; Vitus spp.; Salix caroliniana; Sambucus canadensis; Baccharis halmifolia</i>
Habitat Support/Buffer	pasture, cypress
Field Hydrology (HYD)	Reduced hydrology from ditching
WQ Input & Treatment (WQ)	Direct discharge from pasture and surrounding ditched wetlands

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Post/ Gaines	Wetland Type Wetland #2
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Land Use Pasture/Highway	FLUCCS Code 630 Description: Hardwood; Cypress	Wetland Acreage 0.69
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Wildlife Utilization (WU) 1.0	Wetland Canopy (O/S) 1.5	Wetland Ground Cover (GC) 1.5
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Field Hydrology (HYD) 1.5	WQ Input & Treatment (WQ) 1.1
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Buffer Type (Score) X (% of area) = Sub Totals

211	0.5	10%	0.05
814	0	45%	0
630	1	45%	0.45
TOTAL			0.5

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category	Score	(% of area)	= Sub Totals
Improved Pasture	1.0	10%	0.1
H. Volume Hi-way	1.0	45%	0.45
Hardwood range	2.0	45%	0.9
TOTAL			1.45

Pretreatment Category (PT)

Pretreat. Category	(Score)	x (% of area)	= Sub Totals
No treatment	0.0	70%	0.0
Wet det. w/ swales	2.5	30%	0.8
TOTAL			0.8

WRAP Score
0.39

Field Notes:

Wildlife Utilization (WU)	common crow; towhee; cricket frog; red winged blackbird, cleared pasture and roadway
Wetland Canopy (O/S)	<i>Taxodium ascendens</i> ; <i>Gordonia lasianthus</i> ; <i>Pinus elliottii</i> ; <i>Persea borbonia</i> ; <i>Ilex cassine</i> ; <i>Myrica cerifera</i> (very open canopy)
Wetland Ground Cover (GC)	<i>Paederia foetida</i> ; <i>Serenoa repens</i> ; <i>Saururus cernuus</i> ; <i>Vitis</i> spp.
Habitat Support/Buffer	pasture; highway (with fence and firebreak through center of wetland)
Field Hydrology (HYD)	Ditched to adjacent wetlands
WQ Input & Treatment (WQ)	Treatment prior to discharge from Suncoast Parkway; Direct discharge from pasture and range in swamp

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Post/ Gaines	Wetland Type Wetland #2a
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Land Use Pasture/Highway	FLUCCS Code 640 Description: Herbaceous Marsh	Wetland Acreage 0.03
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Wildlife Utilization (WU) 0.5	Wetland Canopy (O/S) NA	Wetland Ground Cover (GC) 0.5
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Field Hydrology (HYD) 1.5

WQ Input & Treatment (WQ) 0.9

Buffer Type (Score) X (% of area) = Sub Totals

814	0	100%	0
TOTAL			0

• The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category	Score	X (% of area)	= Sub Totals
H. Volume Hi-way	1.0	100%	1.0
TOTAL			1.0

Pretreatment Category (PT)

Pretreat. Category	(Score)	x (% of area)	= Sub Totals
No treatment	0.0	70%	0.0
Wet det. w/ swales	2.5	30%	0.8
TOTAL			0.8

WRAP Score
0.23

Field Notes:

Wildlife Utilization (WU)	common crow; towhee; cricket frog; red winged blackbird, cleared pasture and roadway
Wetland Canopy (O/S)	
Wetland Ground Cover (GC)	<i>Paspalum notatum</i> ; <i>Sagittaria graminea</i> ;
Habitat Support/Buffer	pasture; maintained roadside of highway
Field Hydrology (HYD)	Off-site portion ditched to adjacent wetlands
WQ Input & Treatment (WQ)	Treatment prior to discharge from Suncoast Parkway; Direct discharge from pasture and range in swamp

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Post/Gaines	Wetland Type Wetland #3
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Land Use Pasture/Highway	FLUCCS Code 621 Description: Cypress	Wetland Acreage 3.91
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Wildlife Utilization (WU) 1.0	Wetland Canopy (O/S) 1.5	Wetland Ground Cover (GC) 2.0
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Field Hydrology (HYD) 1.0

WQ Input & Treatment (WQ) 0.8

Buffer Type (Score) X (% of area) = Sub Totals

Buffer Type	Score	% of area	Sub Totals
211	0.5	80%	0.4
814	0.5	20%	0.1
TOTAL			0.5

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category Score X (% of area) = Sub Totals

Land use Category	Score	% of area	Sub Totals
Improved Pasture	1.0	80%	0.8
H. Volume Hi-way	1.0	20%	0.2
TOTAL			1.0

Pretreatment Category (PT)

Pretreat. Category (Score) x (% of area) = Sub Totals

Pretreat. Category	Score	% of area	Sub Totals
No treatment	0.0	80%	0.0
Wet det. w/ swales	2.5	20%	0.5
TOTAL			0.5

WRAP Score

0.38

Field Notes:

Wildlife Utilization (WU)	warbler; common crow, logged, surrounded by pasture
Wetland Canopy (O/S)	<i>Taxodium ascendens</i> ; <i>Pinus elliottii</i> ; <i>Ilex cassine</i> ; <i>Myrica cerifera</i> ; (very open canopy) - logged
Wetland Ground Cover (GC)	<i>Sabatia sp.</i> ; <i>Juncus sp.</i> ; <i>Amphicarpum muhlenbergianum</i> ; <i>Paspalum notatum</i> ; <i>Lachnocaulon sp.</i> ; <i>Xyris sp.</i> ; <i>Lyonia lucida</i> ; <i>Baccharis halimifolia</i> ; <i>Stillingia aquatic</i> ; <i>Hypericum fasciculatum</i>
Habitat Support/Buffer	Pasture; highway, fire break
Field Hydrology (HYD)	Ditched to adjacent wetlands; young cypress on edge, lichens to ground, depressed water table.
WQ Input & Treatment (WQ)	Treatment prior to discharge from Suncoast Parkway; Direct discharge from pasture

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Gaines/Post	Wetland Type Wetland 3a
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Land Use Improved Pasture	FLUCCS Code 641 Description: Marsh	Wetland Acreage 0.07
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Wildlife Utilization (WU) 1.0	Wetland Canopy (O/S) N/A	Wetland Ground Cover (GC) 1.0
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Field Hydrology (HYD) 1.0

WQ Input & Treatment (WQ) 0.5

Buffer Type (Score) X (% of area) = Sub Totals

211	0.5	100%	0.5
TOTAL			0.5

• The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category Score X (% of area) = Sub Totals

Improved Pasture	1.0	100%	1.0
TOTAL			1.0

Pretreatment Category (PT)

Pretreat. Category (Score) x (% of area) = Sub Totals

No treatment	0.0	100%	0.0
TOTAL			0.0

WRAP Score 0.27

Field Notes:

Wildlife Utilization (WU)	Common crow
Wetland Canopy (O/S)	N/A
Wetland Ground Cover (GC)	<i>Lachnocaulon sp.</i> ; <i>Pluchea rosea</i> ; <i>Andropogon sp.</i> ; <i>Lachnanthes caroliniana</i> ; <i>Paspalum notatum</i>
Habitat Support/Buffer	pasture
Field Hydrology (HYD)	Reduced hydrology from ditching
WQ Input & Treatment (WQ)	Direct discharge from pasture

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Post/Gaines	Wetland Type Wetland #4
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Land Use Highway/Rangeland	FLUCCS Code 621 Description: Cypress	Wetland Acreage 0.54
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Wildlife Utilization (WU) 1.5	Wetland Canopy (O/S) 2.0	Wetland Ground Cover (GC) 2.0
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Habitat Support/Buffer	Field Hydrology (HYD) 2.0
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Buffer Type (Score) X (% of area) = Sub Totals

Buffer Type	Score	% of area	Sub Totals
814	0	45%	0
411	2.0	10%	0.2
621	2.0	45%	0.9
TOTAL			1.1

WQ Input & Treatment (WQ) 2.3

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category Score X (% of area) = Sub Totals

Land use Category	Score	% of area	Sub Totals
Flatwoods	2.5	10%	0.25
H. Volume Hi-way	1.0	45%	0.45
Cypress	2.5	45%	1.13
TOTAL			1.8

Pretreatment Category (PT)

Pretreat. Category (Score) x (% of area) = Sub Totals

Pretreat. Category	Score	% of area	Sub Totals
Natural area	3	55%	1.65
Wet det. w/ swales	2.5	45%	1.13
TOTAL			2.8

WRAP Score

0.61

Field Notes:

Wildlife Utilization (WU)	northern parula warbler; white-tailed deer; squirrel tree frog
Wetland Canopy (O/S)	<i>Taxodium ascendens; Ilex cassine; Persea palustris; Acer rubrum;</i>
Wetland Ground Cover (GC)	<i>Blechnum serrulatum; Woodwardia virginica; Lyonia lucida; Myrica cerifera; Serenoa repens, Baccharis; Vitus</i>
Habitat Support/Buffer	rangeland (with Firebreak adjacent to wetland); highway; Cypress
Field Hydrology (HYD)	Culvert under Suncoast Parkway to ditched wetland (#2/2A)
WQ Input & Treatment (WQ)	Treatment prior to discharge from Suncoast Parkway; Natural area discharge with maintained firebreak

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Post/Gaines	Wetland Type Wetland #5
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Land Use Flatwoods/Highway	FLUCCS Code 621 Description: Cypress	Wetland Acreage 1.28
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Wildlife Utilization (WU) 1.5	Wetland Canopy (O/S) 2.0	Wetland Ground Cover (GC) 2.0
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Field Hydrology (HYD) 1.5

WQ Input & Treatment (WQ) 2.3

Buffer Type (Score) X (% of area) = Sub Totals

Buffer Type	Score	% of area	Sub Totals
411	3.0	5%	0.15
814	0.5	45%	0.23
621	3.0	50%	1.50
TOTAL			1.9

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category	Score	% of area	Sub Totals
Flatwoods	2.5	5%	0.13
H. Volume Hi-way	1.0	45%	0.45
Cypress	2.5	50%	1.25
TOTAL			1.8

Pretreatment Category (PT)

Pretreat. Category	Score	% of area	Sub Totals
Natural Area	3	55%	1.65
Wet det. w/ swales	2.5	45%	1.13
TOTAL			2.8

WRAP Score
0.62

Field Notes:

Wildlife Utilization (WU)	hog sign near dirt trail, cardinal, adjacent roadway
Wetland Canopy (O/S)	<i>Taxodium ascendens; Gordonia lasianthus; Pinus elliotii; Persea borbonia; Ilex cassine; Acer rubrum; Magnolia virginiana</i> – succession evident from cypress to hardwood – lack of fire?
Wetland Ground Cover (GC)	<i>Andropogon sp.; Axonopus furcatus; Sesbania sp.; Hypericum sp. Eriocaulon sp.; Osmunda cinnamomea; Blechnum serrulatum; Myrica cerifera; Lyonia lucida; Vitus; Sesbania; widespread hog rooting</i>
Habitat Support/Buffer	Pine flatwoods; Highway; firebreak, fenceline
Field Hydrology (HYD)	Exposed roots, depressed water table evident; some tree lean and fall, -adjacent borrow pits; wellfield
WQ Input & Treatment (WQ)	Treatment prior to discharge from Suncoast Parkway; Natural area discharge from flatwoods

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Gaines/Post	Wetland Type Wetland #9
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Land Use Flatwoods/Hwy	FLUCCS Code 621 Description: Cypress	Wetland Acreage 1.32
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Wildlife Utilization (WU) 2.0	Wetland Canopy (O/S) 2.5	Wetland Ground Cover (GC) 2.5
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Field Hydrology (HYD) 2.0	WQ Input & Treatment (WQ) 2.7
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Buffer Type (Score) X (% of area) = Sub Totals

411	2.5	75%	1.88
814	0.5	25%	0.13
TOTAL			2.0

• The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category Score X (% of area) = Sub Totals

Natural	3.0	75%	2.25
H. Volume Hi-way	1.0	25%	0.25
TOTAL			2.5

Pretreatment Category (PT)

Pretreat. Category (Score) x (% of area) = Sub Totals

Natural	3.0	75%	2.25
Wet det. w/ swales	2.5	25%	0.63
TOTAL			2.9

WRAP Score

0.76

Field Notes:

Wildlife Utilization (WU)	northern parula warbler, white-tailed deer; squirrel tree frog; oak toad – adjacent to road
Wetland Canopy (O/S)	<i>Taxodium ascendens; Ilex cassine; Nyssa sylvatica;</i>
Wetland Ground Cover (GC)	<i>Blechnum serrulatum; Andropogon sp.; Woodwardia virginica; Hypericum sp; Eriocaulon sp.; Myrica cerifera; Lyonia lucida</i>
Habitat Support/Buffer	Overgrown pine flatwoods, roadway, firebreak, fenceline
Field Hydrology (HYD)	Generally good; wellfield, moss collar sloughing
WQ Input & Treatment (WQ)	Treatment prior to discharge from Suncoast Parkway; natural area discharge from flatwoods

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Gaines/Post	Wetland Type Wetland #10
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Land Use Rangeland	FLUCCS Code 641 Description: Transitional marshland	Wetland Acreage 0.35
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Wildlife Utilization (WU) 1.5	Wetland Canopy (O/S) N/A	Wetland Ground Cover (GC) 1.5
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Field Hydrology (HYD) 1.5

WQ Input & Treatment (WQ) 2.8

Buffer Type (Score) X (% of area) = Sub Totals

212	2.0	100%	2.0
TOTAL			2.0

• The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category	Score	X (% of area)	= Sub Totals
Rangeland	2.5	100%	2.5
TOTAL			2.5

Pretreatment Category (PT)

Pretreat. Category	(Score)	x (% of area)	= Sub Totals
Natural (cattle removed)	3.0	100%	3.0
TOTAL			3.0

WRAP Score
0.52

Field Notes:

Wildlife Utilization (WU)	oak toad
Wetland Canopy (O/S)	N/A
Wetland Ground Cover (GC)	<i>Amphicarpum muhlenbergianum</i> ; <i>Stillingia aquatica</i> ; <i>Juncus sp.</i> <i>Baccharis angustifolia</i> ; <i>Cladium jamaicense</i> ; <i>Eupatorium sp.</i> ; <i>Pluchea rosea</i> ; <i>Myrica cerifera</i> , <i>Paspalum notatum</i>
Habitat Support/Buffer	Improved pasture, rangeland
Field Hydrology (HYD)	Apparently impacted by adjacent borrow pit
WQ Input & Treatment (WQ)	Jeep trail through middle of wetland; Otherwise natural flow from surrounding rangeland

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Gaines/Post	Wetland Type Wetland #11
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Land Use Rangeland	FLUCCS Code 641 Description: Transitional marsh	Wetland Acreage 0.05
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Wildlife Utilization (WU) 1.5	Wetland Canopy (O/S) N/A	Wetland Ground Cover (GC) 1.5
----------------------------------	-----------------------------	----------------------------------

Field Hydrology (HYD) 1.5	WQ Input & Treatment (WQ) 2.8
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Buffer Type (Score) X (% of area) = Sub Totals

212	2.5	100%	2.0
TOTAL			2.0

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category	Score	X (% of area)	= Sub Totals
Rangeland	2.5	100%	2.5
TOTAL			2.5

Pretreatment Category (PT)

Pretreat. Category	(Score) x (% of area)	= Sub Totals
Natural (cattle removed)	3.0 100%	3.0
TOTAL		3.0

WRAP Score
0.52

Field Notes:

Wildlife Utilization (WU)	white-eyed vireo; oak toad; squirrel tree frog
Wetland Canopy (O/S)	N/A
Wetland Ground Cover (GC)	<i>Pluchea rosea</i> ; <i>Myrica cerifera</i> ; <i>Eriocaulon</i> ; <i>Andropogon</i> ; <i>Hypericum fasciculatum</i> ; <i>Axonopus</i> ; <i>Paspalum notatum</i>
Habitat Support/Buffer	Pasture/Rangeland
Field Hydrology (HYD)	Apparently impacted by adjacent borrow pit
WQ Input & Treatment (WQ)	Natural flow from surrounding rangeland

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Gaines/Post	Wetland Type Wetland #12
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Land Use Rangeland	FLUCCS Code 641 Description: Transitional marsh	Wetland Acreage 0.15
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Wildlife Utilization (WU) 1.5	Wetland Canopy (O/S) N/A	Wetland Ground Cover (GC) 1.5
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Field Hydrology (HYD) 1.5

Buffer Type (Score) X (% of area) = Sub Totals			
212	2.0	100%	2.0
TOTAL			2.0

WQ Input & Treatment (WQ)
2.8

• The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)			
Land use Category Score X (% of area) = Sub Totals			
Rangeland	2.5	100%	2.5
TOTAL			2.5

Pretreatment Category (PT)			
Pretreat. Category (Score) x (% of area) = Sub Totals			
Natural (cattle removed)	3.0	100%	3.0
TOTAL			3.0

WRAP Score
0.52

Field Notes:

Wildlife Utilization (WU)	oak toad; leopard frog; common crow
Wetland Canopy (O/S)	N/A
Wetland Ground Cover (GC)	<i>Pluchea rosea</i> ; <i>Hypericum fasciculatum</i> (mostly dead); <i>Xyris</i> sp.; <i>Juncus</i> sp.; <i>Andropogon glomeratus</i> ; <i>Myriophyllum aquaticum</i> ; <i>Serenoa repens</i> <i>Eupatorium</i> sp.; <i>Paspalum notatum</i>
Habitat Support/Buffer	Pasture/Rangeland
Field Hydrology (HYD)	Apparently impacted by adjacent borrow pit
WQ Input & Treatment (WQ)	Natural flow from surrounding rangeland

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Gaines/Post	Wetland Type Wetland #13
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Land Use Rangeland	FLUCCS Code 641 Description: Transitional marsh	Wetland Acreage 0.22
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Wildlife Utilization (WU) 1.5	Wetland Canopy (O/S) N/A	Wetland Ground Cover (GC) 1.5
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Field Hydrology (HYD) 1.5	
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WQ Input & Treatment (WQ) 2.8

Buffer Type (Score) X (% of area) = Sub Totals

212	2.0	100%	2.0	
				TOTAL
				2.0

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category Score X (% of area) = Sub Totals

Rangeland	2.5	100%	2.5	
				2.5

Pretreatment Category (PT)

Pretreat. Category (Score) x (% of area) = Sub Totals

Natural	3.0	100%	3.0	
(cattle removed)				
				3.0

WRAP Score

0.52

Field Notes:

Wildlife Utilization (WU)
oak toad; unidentified snake; white-eyed vireo

Wetland Canopy (O/S)
N/A

Wetland Ground Cover (GC)
Hypericum fasciculatum ; *Xyris sp.*; *Eriocaulon sp.*; *Lachnanthes caroliniana*; *Amphacarpum muhlenbergianum*, *Paspalum notatum*

Habitat Support/Buffer
Pasture, rangeland; cleared jeep trail through middle of wetland

Field Hydrology (HYD)
Apparently impacted by adjacent borrow pit

WQ Input & Treatment (WQ)
Jeep trails impacting WQ

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Gaines/Post	Wetland Type Wetland #14
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Land Use Rangeland	FLUCCS Code 742 Description: Borrow pond	Wetland Acreage 0.15
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Wildlife Utilization (WU) 2.0	Wetland Canopy (O/S) N/A	Wetland Ground Cover (GC) 1.5
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Field Hydrology (HYD) 1.5	
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Buffer Type	Score	% of area	Sub Totals
212	0.5	50%	0.3
742	2.0	50%	1.0
TOTAL			1.3

WQ Input & Treatment (WQ) 2.6

• The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category	Score	% of area	Sub Totals
Rangeland	2.5	50%	1.25
Borrow pond	2.0	50%	1
TOTAL			2.3

Pretreatment Category (PT)

Pretreat. Category	Score	% of area	Sub Totals
Natural	3.0	50%	1.5
(cattle removed)			
Borrow pond	2.5	50%	1.25
TOTAL			2.8

WRAP Score
0.59

Field Notes:

Wildlife Utilization (WU) Little blue heron; oak toad; wood ducks; white-eyed vireo (in adjacent cypress); peninsula cooter; mosquitofish; killifish
Wetland Canopy (O/S) (Empty)
Wetland Ground Cover (GC) <i>Hypericum fasciculatum</i> ; <i>Xyris sp.</i> ; <i>Osmunda cinnamomea</i> ; <i>Xyris sp.</i> ; <i>Nymphaea odorata</i> ; <i>Panicum repens</i> ; <i>Lyonia lucida</i> ; <i>Myrica cerifera</i> (along banks of borrow pond)
Habitat Support/Buffer Pasture; adjacent cypress system; Pond has steep slopes
Field Hydrology (HYD) Impacted due to excavation of cypress system
WQ Input & Treatment (WQ) Altered by excavation; adjacent rangeland

MITIGATION WRAP EVALUATIONS

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Gaines/Post	Wetland Type 742
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Land Use 742	FLUCCS Code 742 Description: Mitigation #1 North Borrow Pit	Mitigation Acreage 27.28
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Wildlife Utilization (WU) 1.5	Wetland Canopy (O/S) NA	Wetland Ground Cover (GC) 0.5
----------------------------------	----------------------------	----------------------------------

Field Hydrology (HYD) 1.5	WQ Input & Treatment (WQ) 2.9
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Buffer Type (Score) X (% of area) = Sub Totals

411	3.0	90%	2.7
330	1.0	10%	0.1
			TOTAL
			2.8

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)	Pretreatment Category (PT)
------------------------	----------------------------

Land use Category (Score) X (% of area) = Sub Totals

411	3.0	90%	2.7
330	1.0	10%	0.1
			TOTAL
			2.8

Pretreat. Category (Score) x (% of area) = Sub Totals

411	3.0	90%	2.7
330	2.0	10%	0.2
			TOTAL
			2.9

WRAP Score
0.61

Field Notes:

Wildlife Utilization (WU)	Little blue heron; oak toad; wood ducks; white-eyed vireo (in adjacent cypress); peninsula cooter; mosquitofish; killifish; pig frog
Wetland Canopy (O/S)	NA
Wetland Ground Cover (GC)	Volunteer cypress, <i>Panicum hemitomom</i> ; <i>Panicum repens</i> ; <i>Typha</i> spp.; <i>Myrica cerifera</i>
Habitat Support/Buffer	Pine flatwoods and shrub/brushland – steep slopes
Field Hydrology (HYD)	Clear water
WQ Input & Treatment (WQ)	Pine flatwoods and shrub/brushland – steep slopes

Wetland Rapid Assessment Procedure

Existing condition: Proposed Conditions (WRAP)

Application Number	Project Name	Date	Evaluator	Wetland Type
-----	Ridge Road Interchange	5/21/09	Gaines/Post	742

Land Use	FLUCCS Code	Mitigation Acreage
742	742 Description: Mitigation #1 North Borrow Pit	27.28

Wildlife Utilization (WU)	Wetland Canopy (O/S)	Wetland Ground Cover (GC)
2.0	NA	1.5

Field Hydrology (HYD)	WQ Input & Treatment (WQ)
1.5	2.9

Buffer Type (Score) X (% of area) = Sub Totals

Buffer Type	Score	% of area	Sub Totals
411	3.0	90%	2.7
330	3.0	10%	0.3
TOTAL			3.0

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category Score X (% of area) = Sub Totals

Land use Category	Score	% of area	Sub Totals
411	3.0	90%	2.7
330	3.0	10%	0.3
TOTAL			3.0

Pretreatment Category (PT)

Pretreat. Category (Score) x (% of area) = Sub Totals

Pretreat. Category	Score	% of area	Sub Totals
411	3.0	90%	2.7
330	1.0	10%	0.1
TOTAL			2.8

WRAP Score

0.73

Field Notes:

Wildlife Utilization (WU) Little blue heron; oak toad; wood ducks; white-eyed vireo (in adjacent cypress); peninsula cooter; mosquitofish; killifish; pig frog

Wetland Canopy (O/S)

NA

Wetland Ground Cover (GC)

Volunteer cypress, *Panicum hemitomom*; *Panicum repens*; *Typha* spp.;

Myrica cerifera

Habitat Support/Buffer

Pine flatwoods and shrub/brushland – steep slopes

Field Hydrology (HYD)

Clear water

WQ Input & Treatment (WQ)

Pine flatwoods and shrub/brushland – steep slopes

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Gaines/Post	Wetland Type 742
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Land Use 742	FLUCCS Code 742 Description: Mit Area #2 South Borrow Pits	Wetland Acreage 37.33
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Wildlife Utilization (WU) 1.5	Wetland Canopy (O/S) NA	Wetland Ground Cover (GC) 0.5
----------------------------------	----------------------------	----------------------------------

Field Hydrology (HYD) 1.5	WQ Input & Treatment (WQ) 2.3
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Buffer Type (Score) X (% of area) = Sub Totals

330	1.0	50%	0.5
411	2.5	50%	1.25
TOTAL			1.8

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)

Land use Category (Score) X (% of area) = Sub Totals

330	1.0	50%	0.5
411	3.0	50%	1.5
TOTAL			2.0

Pretreatment Category (PT)

Pretreat. Category (Score) x (% of area) = Sub Totals

330	2.0	50%	1.0
411	3.0	50%	1.5
TOTAL			2.5

WRAP Score
0.51

Field Notes:

Wildlife Utilization (WU)	mosquitofish; killifish; pig frog; pig rooting
Wetland Canopy (O/S)	NA
Wetland Ground Cover (GC)	Heavy <i>Typha</i> ; <i>Myrica cerifera</i>
Habitat Support/Buffer	Area around pond dominated by salt bush and bahia grass, pine flatwoods
Field Hydrology (HYD)	Clear water
WQ Input & Treatment (WQ)	Steep slopes – erosion, pig rooting

Wetland Rapid Assessment Procedure

Existing conditions Proposed Conditions (WRAP)

Application Number -----	Project Name Ridge Road Interchange	Date 5/21/09	Evaluator Gaines/Post	Wetland Type 742
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Land Use 742	FLUCCS Code 742 Description: Mit Area #2 South Borrow Pits	Wetland Acreage 37.33
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Wildlife Utilization (WU) 2.0	Wetland Canopy (O/S) NA	Wetland Ground Cover (GC) 1.0
----------------------------------	----------------------------	----------------------------------

Field Hydrology (HYD) 1.5	WQ Input & Treatment (WQ) 2.8
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Buffer Type (Score) X (% of area) = Sub Totals

330	3.0	50%	1.5
411	3.0	50%	1.5
			TOTAL
			3.0

•The value of WQ is obtained by adding the TOTAL scores of Land use Category and Pretreatment category then dividing by 2

Land use Category (LU)	Pretreatment Category (PT)
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Land use Category (Score) X (% of area) = Sub Totals

330	3.0	50%	1.5
411	3.0	50%	1.5
			TOTAL
			3.0

Pretreat. Category (Score) x (% of area) = Sub Totals

330	2.0	50%	1.0
411	3.0	50%	1.5
			TOTAL
			2.5

WRAP Score
0.69

Field Notes:

Wildlife Utilization (WU)	mosquitofish; killifish; pig frog; pig rooting
Wetland Canopy (O/S)	NA
Wetland Ground Cover (GC)	Heavy <i>Typha</i> ; <i>Myrica cerifera</i>
Habitat Support/Buffer	Area around pond dominated by salt bush and bahia grass, pine flatwoods
Field Hydrology (HYD)	Clear water
WQ Input & Treatment (WQ)	Steep slopes – erosion, pig rooting

WETLAND UMAM EVALUATIONS

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

Site/Project Name Ridge Road Interchange		Application Number		Assessment Area Name or Number Wetland #1	
FLUCCs code 621		Further classification (optional) Cypress		Impact or Mitigation Site? Impact	
Assessment Area Size 3.06					
Basin/Watershed Name/Number Upper Coastal		Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Cypress strand with ditch connections upstream and downstream and historic logging impacts.					
Significant nearby features borrow pond to north and further to west. Surrounded by improved pasture			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat			Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) medium mammals, alligators, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC around edges - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): towhee; northern parula warbler, wren, raccoon, bobcat					
Additional relevant factors:					
Assessment conducted by: Gaines/Post			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 1
Impact or Mitigation Impact	Assessment conducted by: Gaines/Post	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>6 0</p>	<p>Wildlife habitat has been impacted. No buffers and little connectivity. Wetland has been approx. 30% logged with a cleared ecotone. Cypress abuts improved pasture with little to no historical cypress marsh edge complex remaining. Minor forested connection to east with culverted tram. More open canopy resulted in increased vine and mid-story/ground cover pioneer species. Hydrology altered by up/downstream ditches as well as significant borrow ponds in immediate vicinity. Proposed project will provide large culvert for drainage as well as 6' chain link fencing. No obvious signs of wildlife corridor.</p>
<p>.500(6)(b) Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>6 0</p>	<p>System appears to have been impacted hydrologically by up/downstream ditching, culverted tram and adjacent regional borrow pits. Some tree lean and fall, as well as altered moss collars (sloughing or stranded) and mismatched seasonal high water/flood events. Project will include large culvert for maintenance of hydrology, but runoff reporting to system will be altered somewhat.</p>
<p>.500(6)(c) Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>5 0</p>	<p>System's vegetative community currently altered by logging and clearing of ecotone. Light impacts on created edges have transformed expected community structure from canopy dominated by cypress to mixed canopy/mid-story dominated by cypress and hardwoods and pioneer shrubs/vines. Proposed project will create edge effect in new locations. <i>Taxodium ascendens; Pinus elliottii; Ilex cassine; Persea palustris; Cladium jamaicense; Woodwardia virginica; Axonopus sp.; Amphicarpum muhlenbergianum; Lyonia lucida; Myrica cerifera; Serenoa repens; Stillingia aquatic; Rubus sp.; Vitus spp.; Salix caroliniana; Sambucus canadensis; Baccharis halmifolia</i></p>

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.57 0

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

For impact assessment areas
FL = delta x acres = -1.74

Delta = [with-current]
-0.57

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 Ridge Road Interchange		Application Number		Assessment Area Name or Number Wetland #2	
FLUCCs code 630		Further classification (optional) Mixed Hardwood		Impact or Mitigation Site? Impact	
Assessment Area Size 0.69					
Basin/Watershed Name/Number Upper Coastal		Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Mixed hardwood swamp with ditch connections upstream and downstream. System impacted by Suncoast Parkway 1 (secondary impacts mitigated).					
Significant nearby features borrow pond to north and further to west. Surrounded by improved pasture and roadway			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat			Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, alligators, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC around edges - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): common crow; towhee; cricket frog; red winged blackbird					
Additional relevant factors:					
Assessment conducted by: Gaines/Post			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 2
Impact or Mitigation Impact	Assessment conducted by: Gaines/Post	Assessment date: 5/21/2009

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

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	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	Wildlife habitat has been impacted by clearing of native habitat, fire reduction and construction of Suncoast Parkway. No buffers and little connectivity. Wetland has a cleared ecotone. Cypress abuts improved pasture with little to no historical cypress marsh edge complex remaining. Transitional canopy from cypress to hardwood resulting in increased vine and mid-story/ground cover pioneer species. Hydrology altered by historical up/downstream ditches as well as significant borrow ponds in immediate vicinity. Proposed project will impact western edge. No obvious signs of wildlife corridor.	
	w/o pres or current 4	with 0

.500(6)(b) Water Environment (n/a for uplands)	System appears to have been impacted hydrologically by historic up/downstream ditching, culverted tram and adjacent regional borrow pits. Some tree lean and fall, as well as altered moss collars (sloughing or stranded) and mismatched seasonal high water/flood events. Project will cause runoff reporting to system to be altered somewhat.	
	w/o pres or current 5	with 0

.500(6)(c) Community structure 1. Vegetation and/or 2. Benthic Community	System's vegetative community currently altered by clearing of ecotone and lack of fire around edge. Light impacts on created edges have transformed expected community structure from canopy dominated by cypress to mixed canopy/mid-story dominated by cypress and hardwoods and pioneer shrubs/vines. Proposed project will create edge effect in new locations. <i>Taxodium ascendens; Gordonia lasianthus; Pinus elliotii; Persea borbonia; Ilex cassine; Myrica cerifera; Paederia foetida; Serenoa repens; Saururus cernuus; Vitus spp.</i>	
	w/o pres or current 5	with 0

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres 0.47	with 0

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

For impact assessment areas FL = delta x acres = -0.32

Delta = [with-current] -0.47

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

For mitigation assessment areas RFG = delta/(t-factor x risk) =
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**PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)**

Site/Project Name Ridge Road Interchange		Application Number	Assessment Area Name or Number Wetland #2a	
FLUCCs code 640	Further classification (optional) Herbaceous Marsh		Impact or Mitigation Site? Impact	Assessment Area Size 0.03
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico				
Assessment area description herbaceous marsh/wet pasture remnant of historical cypress dome marsh with ditch connections downstream. System impacted by Suncoast Parkway 1 (secondary impacts mitigated).				
Significant nearby features borrow pond to north and further to west. Surrounded by improved pasture and roadway		Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): common crow; towhee; cricket frog; red winged blackbird				
Additional relevant factors:				
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 2a
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>4</td> <td>0</td> </tr> </table>	4	0	<p>Wildlife habitat has been impacted by clearing of native habitat, fire reduction and construction of Suncoast Parkway. No buffers and little connectivity. Wetland has a cleared ecotone and is predominantly comprised of bahia grass. This area appears to have been a historical cypress marsh edge complex. Hydrology altered by historical downstream ditches as well as significant borrow ponds in immediate vicinity. Proposed project will impact western edge. No obvious signs of wildlife corridor.</p>
4	0		
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>2</td> <td>0</td> </tr> </table>	2	0	<p>System appears to have been impacted hydrologically by historic up/downstream ditching, and adjacent regional borrow pits. Bahia grass dominated implies reduced hydroperiod. Remnant wetland area will not be significantly impacted.</p>
2	0		
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>2</td> <td>0</td> </tr> </table>	2	0	<p>System's vegetative community currently altered by clearing of ecotone and lack of fire around edge. Project will minimally impact remainder of system. <i>Paspalum notatum</i>; <i>Sagittaria graminea</i>;</p>
2	0		

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.27 0

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

For impact assessment areas
FL = delta x acres = -0.01

Delta = [with-current]
-0.27

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 Ridge Road Interchange		Application Number	Assessment Area Name or Number Wetland #3
FLUCCs code 621	Further classification (optional) Cypress	Impact or Mitigation Site? Impact	Assessment Area Size 3.91
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico			
Assessment area description Cypress strand with ditch connections upstream and downstream and historic logging impacts.			
Significant nearby features borrow pond to north and further to west. Surrounded by improved pasture		Uniqueness (considering the relative rarity in relation to the regional landscape.) common	
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use NA	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) medium mammals, alligators, snakes, turtles, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC around edges - low use	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): warbler; common crow			
Additional relevant factors:			
Assessment conducted by: Gaines/Post		Assessment date(s): 5/21/2009	

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 3
Impact or Mitigation Impact	Assessment conducted by: Gaines/Post	Assessment date: 5/21/2009

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

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	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	Wildlife habitat has been impacted. No buffers and little connectivity. Wetland has been approx. 30% logged with a cleared ecotone. Cypress abuts improved pasture with little to no historical cypress marsh edge complex remaining. More open canopy resulted in increased vine and mid-story/ground cover pioneer species. Hydrology altered by up/downstream ditches as well as significant borrow ponds in immediate vicinity. No obvious signs of wildlife corridor.
w/o pres or current	with
4	0

.500(6)(b)Water Environment (n/a for uplands)	System appears to have been impacted hydrologically by up/downstream ditching, and adjacent regional borrow pits. Some tree lean and fall, as well as altered moss collars (sloughing or stranded) and mismatched seasonal high water/flood events. Runoff reporting to system will be altered somewhat.
w/o pres or current	with
5	0

.500(6)(c)Community structure	System's vegetative community currently altered by logging and clearing of ecotone. Light impacts on created edges have transformed expected community structure from canopy dominated by cypress to mixed canopy/mid-story dominated by cypress and hardwoods and pioneer shrubs/vines. Proposed project will create edge effect in new locations. <i>Taxodium ascendens; Pinus elliottii; Ilex cassine; Myrica cerifera; Sabatia sp.; Juncus sp.; Amphicarpum muhlenbergianum; Paspalum notatum; Lachnocaulon sp.; Xyris sp.; Lyonia lucida; Baccharis halimifolia; Stillingia aquatic; Hypericum fasciculatum</i>
1. Vegetation and/or 2. Benthic Community	
w/o pres or current	with
5	0

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	with
0.47	0

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

For impact assessment areas
FL = delta x acres = -1.84

Delta = [with-current]
-0.47

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 Ridge Road Interchange		Application Number	Assessment Area Name or Number Wetland #3a	
FLUCCs code 640	Further classification (optional) Herbaceous Marsh		Impact or Mitigation Site? Impact	Assessment Area Size 0.07
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico				
Assessment area description herbaceous marsh/wet pasture remnent of historical cypress dome marsh with ditch connections downstream.				
Significant nearby features borrow pond to north and further to west. Surrounded by improved pasture and cypress dome. Appears to be somewhat ditched.		Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): common crow;				
Additional relevant factors:				
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number ~	Assessment Area Name or Number Wetland 3a
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>4 0</p>	<p>Wildlife habitat has been impacted by clearing of native habitat, fire reduction and ditching. No buffers and little connectivity. Wetland has a cleared ecotone and is predominantly comprised of bahia grass. This area appears to have been a historical cypress marsh edge complex. Hydrology altered by historical up and downstream ditches as well as significant borrow ponds in immediate vicinity. Proposed project will impact southern edge. No obvious signs of wildlife corridor.</p>
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>2 0</p>	<p>System appears to have been impacted hydrologically by historic up/downstream ditching, and adjacent regional borrow pits. Bahia grass dominated implies reduced hydroperiod.</p>
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>2 0</p>	<p>System's vegetative community currently altered by clearing of ecotone and lack of fire around edge. Project will minimally impact remainder of system. <i>Lachnocaulon</i> sp.; <i>Pluchea rosea</i>; <i>Andropogon</i> sp.; <i>Lachnanthes caroliniana</i>; <i>Paspalum notatum</i></p>

Score = sum of above scores/30 (if uplands, divide by 20)

current or w/o pres	with
0.27	0

If preservation as mitigation,

Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas

FL = delta x acres = -0.02

Delta = [with-current]
-0.27

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 Ridge Road Interchange		Application Number		Assessment Area Name or Number Wetland #4	
FLUCCs code 621		Further classification (optional) Cypress		Impact or Mitigation Site? Impact	
				Assessment Area Size 0.54	
Basin/Watershed Name/Number Upper Coastal		Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Cypress dome with ditch connections upstream.					
Significant nearby features Part of Serenova. Borrow pond to north and west. Surrounded by firebreak/pine flatwoods on west and Suncoast Parkway on east.			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat			Mitigation for previous permit/other historic use Yes and included in secondary impacts assessed and mitigated as part Suncoast Parkway.		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) medium mammals, alligators, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC around edges - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): northern parula warbler; white-tailed deer; squirrel tree frog					
Additional relevant factors:					
Assessment conducted by: Post/Gaines			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 4
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>6</td> <td>0</td> </tr> </table>	6	0	<p>Part of Serenova. Wildlife habitat has been impacted on east. No buffers and little connectivity on east. Wetland has cleared ecotone on east. Cypress abuts Suncoast Parkway with little to no historical cypress marsh edge complex remaining on east and firebreak/lack of fire management on west. Hydrology altered by significant borrow ponds in immediate vicinity. No obvious signs of wildlife corridor. 10' wildlife fencing on east as part of Suncoast Parkway.</p>
6	0		
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>6</td> <td>0</td> </tr> </table>	6	0	<p>Part of Serenova. System appears to have been impacted hydrologically by downstream ditching, and adjacent regional borrow pits. Runoff reporting to system is and will be altered somewhat with project.</p>
6	0		
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>6</td> <td>0</td> </tr> </table>	6	0	<p>Part of Serenova. Lack of fire and firebreak edges have transformed expected community structure from canopy dominated by cypress to mixed canopy/mid-story dominated by cypress and hardwoods and thick ecotone. Proposed project will create edge effect in new locations. <i>Taxodium ascendens; Ilex cassine; Persea palustris; Acer rubrum; Blechnum serrulatum; Woodwardia virginica; Lyonia lucida; Myrica cerifera; Serenoa repens, Baccharis; Vitus</i></p>
6	0		

Score = sum of above scores/30 (if uplands, divide by 20)

current or w/o pres	with
0.60	0

If preservation as mitigation,

Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas

FL = delta x acres = -0.32

Delta = [with-current]
-0.60

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 Ridge Road Interchange		Application Number		Assessment Area Name or Number Wetland #5	
FLUCCs code 621		Further classification (optional) Cypress		Impact or Mitigation Site? Impact	
Assessment Area Size 1.28					
Basin/Watershed Name/Number Upper Coastal		Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Cypress strand in pine flatwoods with Sucoast Parkway and ditch connections downstream.					
Significant nearby features Part of Serenova. Borrow pond to east, south and west. Surrounded by firebreak/pine flatwoods on west and Suncoast Parkway on east.			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat			Mitigation for previous permit/other historic use Yes and included in secondary impacts assessed and mitigated as part Suncoast Parkway.		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) medium mammals, alligators, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC around edges - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): hog sign near dirt trail, cardinal					
Additional relevant factors:					
Assessment conducted by: Post/Gaines			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 5
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>6 0</p>	<p>Part of Serenova. Wildlife habitat has been impacted on east. No buffers and little connectivity on east. Wetland has cleared ecotone on east. Cypress abuts Suncoast Parkway with little to no historical cypress marsh edge complex remaining on east and firebreak/lack of fire management on west. Hydrology altered by significant borrow ponds in immediate vicinity. No obvious signs of wildlife corridor. 10' wildlife fencing on east as part of Suncoast Parkway. Water table reduced with extensive hog rooting and erosion. Culverts from east.</p>
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>6 0</p>	<p>Part of Serenova. System appears to have been impacted hydrologically by adjacent regional borrow pits. Tree lean and fall as well as altered SHW and NP indicators from historical elevations. Soil subsidence, erosion and hog rooting- root exposure. Runoff reporting to system is and will be altered somewhat with project.</p>
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>6 0</p>	<p>Part of Serenova. Lack of fire and firebreak edges have transformed expected community structure from canopy dominated by cypress to mixed canopy/mid-story dominated by cypress and hardwoods and thick ecotone. Proposed project will create edge effect in new locations. Fire will further be restricted by project. <i>Taxodium ascendens; Gordonia lasianthus; Pinus elliotii; Persea borbonia; Ilex cassine; Acer rubrum; Magnolia virginiana; Andropogon sp.; Axonopus furcatus; Sesbania sp.; Hypericum sp. Eriocaulon sp.; Osmunda cinnamomea; Blechnum serrulatum; Myrica cerifera; Lyonia lucida; Vitus; Sesbania;</i></p>

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.60 0

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

For impact assessment areas
FL = delta x acres = -0.77

Delta = [with-current]
-0.60

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 Ridge Road Interchange		Application Number	Assessment Area Name or Number Wetland #9	
FLUCCs code 621	Further classification (optional) Cypress		Impact or Mitigation Site? Impact	Assessment Area Size 1.32
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico				
Assessment area description Cypress dome.				
Significant nearby features Part of Serenova. Borrow pond to north, east and west. Surrounded by firebreak/pine flatwoods on west and Suncoast Parkway on east.		Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use Yes and included in secondary impacts assessed and mitigated as part Suncoast Parkway.		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, alligators, snakes, turtles, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC around edges - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): northern parula warbler; white-tailed deer; squirrel tree frog; oak toad				
Additional relevant factors:				
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 9
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>8 0</p>	<p>Part of Serenova. Wildlife habitat has been impacted on east. No buffers and little connectivity on east. Cypress abuts Suncoast Parkway with historical ecotone remaining on east. Firebreak/fenceline on east. Lack of fire management surrounding. Hydrology altered by significant borrow ponds in immediate vicinity. No obvious signs of wildlife corridor. 10' wildlife fencing on east as part of Suncoast Parkway.</p>
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>7 0</p>	<p>Part of Serenova. System appears to have been impacted hydrologically by adjacent regional borrow pits.</p>
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>8 0</p>	<p>Part of Serenova. Lack of fire and firebreak edges have transformed expected community structure from canopy dominated by cypress to mixed canopy/mid-story dominated by cypress and hardwoods and thick ecotone. Fire will further be restricted by project. <i>Taxodium ascendens; Ilex cassine; Nyssa sylvatica; Blechnum serrulatum; Andropogon sp.; Woodwardia virginica; Hypericum sp; Eriocaulon sp.; Myrica cerifera; Lyonia lucida</i></p>

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.77 0

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

For impact assessment areas
FL = delta x acres = -1.02

Delta = [with-current]
-0.77

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 Ridge Road Interchange		Application Number	Assessment Area Name or Number Wetland #10	
FLUCCs code 641	Further classification (optional) Herbaceous Marsh		Impact or Mitigation Site? Impact	Assessment Area Size 0.35
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico				
Assessment area description Herbaceous marsh surrounded by fallow pasture/rangeland.				
Significant nearby features Part of Serenova. Borrow pond to north, south and east. Surrounded by fallow improved pasture/rangeland.		Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use Yes part of mitigation for Suncoast Parkway.		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): oak toad				
Additional relevant factors:				
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 10
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>5 0</p>	<p>Part of Serenova. Surrounded by fallow improved pasture/rangeland and borrow pit. Little habitat connectivity. Proximal to Suncoast Parkway. Hydrology altered by significant borrow ponds in immediate vicinity.</p>
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>5 0</p>	<p>Part of Serenova. System appears to have been impacted hydrologically by adjacent regional borrow pits.</p>
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>6 0</p>	<p>Part of Serenova. Some native wetland species (<i>Amphicarpum muhlenbergianum</i>; <i>Stillingia aquatica</i>; <i>Juncus sp.</i>; <i>Baccharis angustifolia</i>; <i>Cladium jamaicense</i>; <i>Eupatorium sp.</i>; <i>Pluchea rosea</i>; <i>Myrica cerifera</i>), but significant amounts of bahia grass.</p>

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.53 0

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

For impact assessment areas
FL = delta x acres = -0.19

Delta = [with-current]
-0.53

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 Ridge Road Interchange		Application Number	Assessment Area Name or Number Wetland #11	
FLUCCs code 641	Further classification (optional) Herbaceous Marsh		Impact or Mitigation Site? Impact	Assessment Area Size 0.05
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico				
Assessment area description Herbaceous marsh surrounded by fallow pasture/rangeland.				
Significant nearby features Part of Serenova. Borrow pond to north, south and east. Surrounded by fallow improved pasture/rangeland.		Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use Yes part of mitigation for Suncoast Parkway.		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): white-eyed vireo; oak toad; squirrel tree frog				
Additional relevant factors:				
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 11
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current</p> <table border="1"> <tr> <td>5</td> <td>with</td> </tr> <tr> <td></td> <td>0</td> </tr> </table>	5	with		0	<p>Part of Serenova. Surrounded by fallow improved pasture/rangeland and borrow pit. Little habitat connectivity. Proximal to Suncoast Parkway. Hydrology altered by significant borrow ponds in immediate vicinity.</p>
5	with				
	0				
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current</p> <table border="1"> <tr> <td>5</td> <td>with</td> </tr> <tr> <td></td> <td>0</td> </tr> </table>	5	with		0	<p>Part of Serenova. System appears to have been impacted hydrologically by adjacent regional borrow pits.</p>
5	with				
	0				
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current</p> <table border="1"> <tr> <td>6</td> <td>with</td> </tr> <tr> <td></td> <td>0</td> </tr> </table>	6	with		0	<p>Part of Serenova. Some native wetland species (<i>Pluchea rosea</i>; <i>Myrica cerifera</i>; <i>Eriocaulon</i>; <i>Andropogon</i>; <i>Hypericum fasciculatum</i>; <i>Axonopus</i>), but significant amounts of bahia grass.</p>
6	with				
	0				

Score = sum of above scores/30 (if uplands, divide by 20)	
current	with
or w/o pres	
0.53	0

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

For impact assessment areas
FL = delta x acres = -0.03

Delta = [with-current]
-0.53

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 Ridge Road Interchange		Application Number		Assessment Area Name or Number Wetland #12	
FLUCCs code 641		Further classification (optional) Herbaceous Marsh (excavated?)		Impact or Mitigation Site? Impact	
				Assessment Area Size 0.15	
Basin/Watershed Name/Number Upper Coastal		Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Herbaceous marsh (excavated?) surrounded by fallow pasture/rangeland.					
Significant nearby features Part of Serenova. Borrow pond to north, south and east. Surrounded by fallow improved pasture/rangeland.			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat			Mitigation for previous permit/other historic use Yes part of mitigation for Suncoast Parkway.		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): oak toad; leopard frog; common crow					
Additional relevant factors:					
Assessment conducted by: Post/Gaines			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 12
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>5</td> <td>0</td> </tr> </table>	5	0	<p>Part of Serenova. Surrounded by fallow improved pasture/rangeland and borrow pit. Little habitat connectivity. Proximal to Suncoast Parkway. Hydrology altered by significant borrow ponds in immediate vicinity. System appears to have been scraped to provide road connection across historical marsh.</p>
5	0		
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>5</td> <td>0</td> </tr> </table>	5	0	<p>Part of Serenova. System appears to have been impacted hydrologically by adjacent regional borrow pits. System appears to have been scraped to provide road connection across historical marsh.</p>
5	0		
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>5</td> <td>0</td> </tr> </table>	5	0	<p>Part of Serenova. Some native wetland species (<i>Pluchea rosea</i>; <i>Hypericum fasciculatum</i> (mostly dead) ; <i>Xyris sp.</i>; <i>Juncus sp.</i>; <i>Andropogon glomeratus</i>; <i>Myriophyllum aquaticum</i>; <i>Serenoa repens</i>; <i>Eupatorium sp.</i>; <i>Paspalum notatum</i>), but significant amounts of bahia grass.</p>
5	0		

Score = sum of above scores/30 (if uplands, divide by 20)

current or w/o pres with

0.50	0
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If preservation as mitigation,

Preservation adjustment factor =

Adjusted mitigation delta =

For impact assessment areas

FL = delta x acres = -0.08

Delta = [with-current]

-0.50

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 Ridge Road Interchange		Application Number	Assessment Area Name or Number Wetland #13	
FLUCCs code 641	Further classification (optional) Herbaceous Marsh		Impact or Mitigation Site? Impact	Assessment Area Size 0.22
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico				
Assessment area description Herbaceous marsh surrounded by fallow pasture/rangeland.				
Significant nearby features Part of Serenova. Borrow pond to north, south and east. Surrounded by fallow improved pasture/rangeland.		Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use Yes part of mitigation for Suncoast Parkway.		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC - low use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): oak toad; unidentified snake; white-eyed vireo				
Additional relevant factors:				
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 13
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>5 0</p>	<p>Part of Serenova. Surrounded by fallow improved pasture/rangeland and borrow pit. Little habitat connectivity. Proximal to Suncoast Parkway. Hydrology altered by significant borrow ponds in immediate vicinity. Jeep trail access along southern side.</p>
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>5 0</p>	<p>Part of Serenova. System appears to have been impacted hydrologically by adjacent regional borrow pits. Jeep trail access along southern side.</p>
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>6 0</p>	<p>Part of Serenova. Native wetland species (<i>Hypericum fasciculatum</i> ; <i>Xyris sp.</i>; <i>Eriocaulon sp.</i>; <i>Lachnanthes caroliniana</i>; <i>Amphacarpum muhlenbergianum</i>; <i>Paspalum notatum</i>).</p>

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.53 0

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

For impact assessment areas
FL = delta x acres = -0.12

Delta = [with-current]
-0.53

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 Ridge Road Interchange		Application Number		Assessment Area Name or Number Wetland #14	
FLUCCs code 742		Further classification (optional) Borrow Pond		Impact or Mitigation Site? Impact	
Assessment Area Size 0.15					
Basin/Watershed Name/Number Upper Coastal		Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Borrow pond dug from historical pine flatwoods colonized by water lily and cow lily.					
Significant nearby features Part of Serenova. Borrow pond to north, south and east. Surrounded by fallow improved pasture/rangeland and cypress strand.			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat			Mitigation for previous permit/other historic use Yes part of mitigation for Suncoast Parkway.		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC - med use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Little blue heron; oak toad; wood ducks; white-eyed vireo (in adjacent cypress); peninsula cooter; mosquitofish; killifish					
Additional relevant factors:					
Assessment conducted by: Post/Gaines			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Wetland 14
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>6 0</p>	<p>Part of Serenova. Surrounded by fallow improved pasture/rangeland and cypress. Little habitat connectivity. Proximal to Suncoast Parkway. Hydrology altered by significant borrow ponds in immediate vicinity. Bank erosion under extreme events.</p>
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>5 0</p>	<p>Part of Serenova. System appears to have been impacted hydrologically by adjacent regional borrow pits. Bank erosion under extreme events.</p>
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>6 0</p>	<p>Part of Serenova. Native wetland species (<i>Hypericum fasciculatum</i> ; <i>Xyris sp.</i>; <i>Osmunda cinnamomea</i>; <i>Xyris sp.</i>; <i>Nymphaea odorata</i>; <i>Panicum repens</i>; <i>Lyonia lucida</i>; <i>Myrica cerifera</i> (along banks of borrow pond)).</p>

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	with
0.57	0

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

For impact assessment areas
FL = delta x acres = -0.09

Delta = [with-current]
-0.57

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

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

MITIGATION UMAM EVALUATIONS

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

Site/Project Name Ridge Road Interchange		Application Number		Assessment Area Name or Number Mitigation #1 North Borrow Pit	
FLUCCs code 742		Further classification (optional) Borrow Pond		Impact or Mitigation Site? Mitigation	
Assessment Area Size 27.28					
Basin/Watershed Name/Number Upper Coastal		Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Borrow pond dug from historical pine flatwoods colonized by cypress, maidencane, cattail, wax myrtle, and torpedo grass.					
Significant nearby features Part of Serenova. Borrow pond to south and east. Surrounded by pine flatwoods and cypress strands/domes.			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat			Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC - medium use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Little blue heron; oak toad; wood ducks; white-eyed vireo (in adjacent cypress); peninsula cooter; mosquitofish; killifish; pig frog					
Additional relevant factors:					
Assessment conducted by: Post/Gaines			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Mitigation #1 North Borrow Pond
Impact or Mitigation Wetland Mitigation Area	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current</p> <table border="1"> <tr> <td>6</td> <td>with</td> <td>7</td> </tr> </table>	6	with	7	<p>Surrounded by pine flatwoods and cypress in Serenova. Habitat connectivity. Proximal to Suncoast Parkway. Hydrology altered by significant borrow ponds in immediate vicinity. Bank erosion under extreme events. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
6	with	7		
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current</p> <table border="1"> <tr> <td>6</td> <td>with</td> <td>7</td> </tr> </table>	6	with	7	<p>System appears to have been impacted hydrologically by adjacent regional borrow pits. Bank erosion under extreme events. Clear water little to no floating algae. Volunteer cypress and other wetland plants. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
6	with	7		
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current</p> <table border="1"> <tr> <td>6</td> <td>with</td> <td>7</td> </tr> </table>	6	with	7	<p>Native wetland species (<i>Volunteer cypress, Panicum hemitomon; Panicum repens; Typha spp.; Myrica cerifera (along banks of borrow pond)</i>). Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
6	with	7		

Score = sum of above scores/30 (if uplands, divide by 20)

current	with
0.60	0.70

If preservation as mitigation,

Preservation adjustment factor = 0.9
Adjusted mitigation delta = 0.09

For impact assessment areas

FL = delta x acres =

Delta = [with-current]
0.10

If mitigation

Time lag (t-factor) = 1
Risk factor = 1

For mitigation assessment areas

RFG = delta/(t-factor x risk) x ac= 2.46
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PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Mitigation #1 North Borrow Pond
Impact or Mitigation Upland Mitigation Area	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>6 7</p>	<p>Surrounded by pine flatwoods and cypress in Serenova. Habitat connectivity. Proximal to Suncoast Parkway. Hydrology altered by significant borrow ponds in immediate vicinity. Bank erosion under extreme events. Add to Serenova tract of SWFMWD's Starkey Wilderness Park with long-term maintenance/management.</p>
<p>.500(6)(b) Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>NA NA</p>	<p>S</p>
<p>.500(6)(c) Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>6 7</p>	<p>Native species and mixed rangeland. Add to Serenova tract of SWFMWD's Starkey Wilderness Park with long-term maintenance/management.</p>

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.60 0.70

If preservation as mitigation,
Preservation adjustment factor = 0.9
Adjusted mitigation delta = 0.09

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.10

If mitigation
Time lag (t-factor) = 1
Risk factor = 1

For mitigation assessment areas
RFG = delta/(t-factor x risk) x ac= 0.32

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

Site/Project Name Ridge Road Interchange		Application Number	Assessment Area Name or Number Mitigation #2 South Borrow Pits	
FLUCCs code 742	Further classification (optional) Borrow Pond		Impact or Mitigation Site? Mitigation	Assessment Area Size 37.33
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (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 Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico				
Assessment area description Borrow pond dug from historical pine flatwoods colonized by cattail, and wax myrtle.				
Significant nearby features Part of Serenova. Borrow pond to north and east. Surrounded by fallow improved pasture, pine flatwoods and cypress strands/domes.		Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) EIS - T low to medium use/potential, wading birds - E/T/SSC - medium use		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): mosquitofish; killifish; pig frog; pig rooting				
Additional relevant factors:				
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Mitigation #2 South Borrow Ponds
Impact or Mitigation Impact	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>5</td> <td>6</td> </tr> </table>	5	6	<p>Surrounded by pine flatwoods, fallow improved pasture and cypress in Serenova. Habitat connectivity. Proximal to Suncoast Parkway. Hydrology altered by significant borrow ponds in immediate vicinity. Bank erosion under extreme events. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
5	6		
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>4</td> <td>5</td> </tr> </table>	4	5	<p>System appears to have been impacted hydrologically by adjacent regional borrow pits. Bank erosion under extreme events. Floating algae. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
4	5		
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>4</td> <td>5</td> </tr> </table>	4	5	<p>Pioneer/nuisance wetland species (<i>heavy Typha spp.</i>; <i>Myrica cerifera</i> (<i>along banks of borrow pond</i>)). Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
4	5		

Score = sum of above scores/30 (if uplands, divide by 20)

current or w/o pres	with
0.43	0.53

If preservation as mitigation,

Preservation adjustment factor = 0.9
Adjusted mitigation delta = 0.09

For impact assessment areas

FL = delta x acres =

Delta = [with-current]
0.10

If mitigation

Time lag (t-factor) = 1
Risk factor = 1

For mitigation assessment areas

RFG = delta/(t-factor x risk) x ac= 3.36
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PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Mitigation #2 South Borrow Pond
Impact or Mitigation Upland Mitigation Area	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>4</td> <td>5</td> </tr> </table>	4	5	<p>Surrounded by pine flatwoods and cypress in Serenova. Habitat connectivity. Proximal to Suncoast Parkway. Hydrology altered by significant borrow ponds in immediate vicinity. Bank erosion under extreme events. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
4	5		
<p>.500(6)(b) Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>NA</td> <td>NA</td> </tr> </table>	NA	NA	<p>System appears to have been impacted hydrologically by adjacent regional borrow pits. Bank erosion under extreme events. Clear water little to no floating algae. Volunteer cypress and other wetland plants. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
NA	NA		
<p>.500(6)(c) Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <table border="1"> <tr> <td>2</td> <td>3</td> </tr> </table>	2	3	<p>Pioneer species (salt bush and bahia grass with some native species colonization). Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
2	3		

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.30 0.40

If preservation as mitigation,
Preservation adjustment factor = 0.9
Adjusted mitigation delta = 0.09

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.10

If mitigation
Time lag (t-factor) = 1
Risk factor = 1

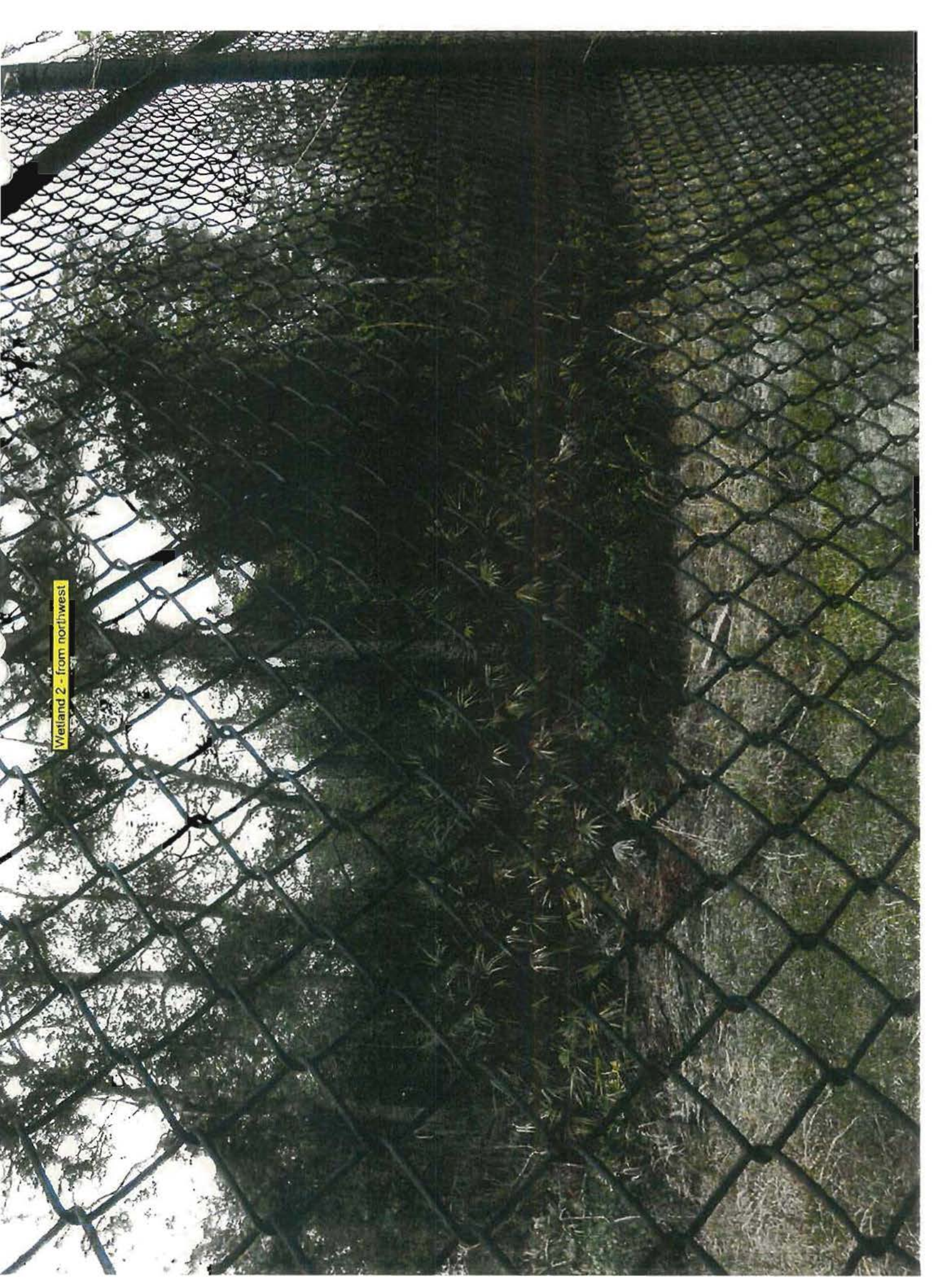
For mitigation assessment areas
RFG = delta/(t-factor x risk) x ac= 1.65

WETLAND PICTURES

Wetland 1 - from west.



Wetland 2 - from northwest



Wetland 2 - from southwest



Wetland 2A - from west



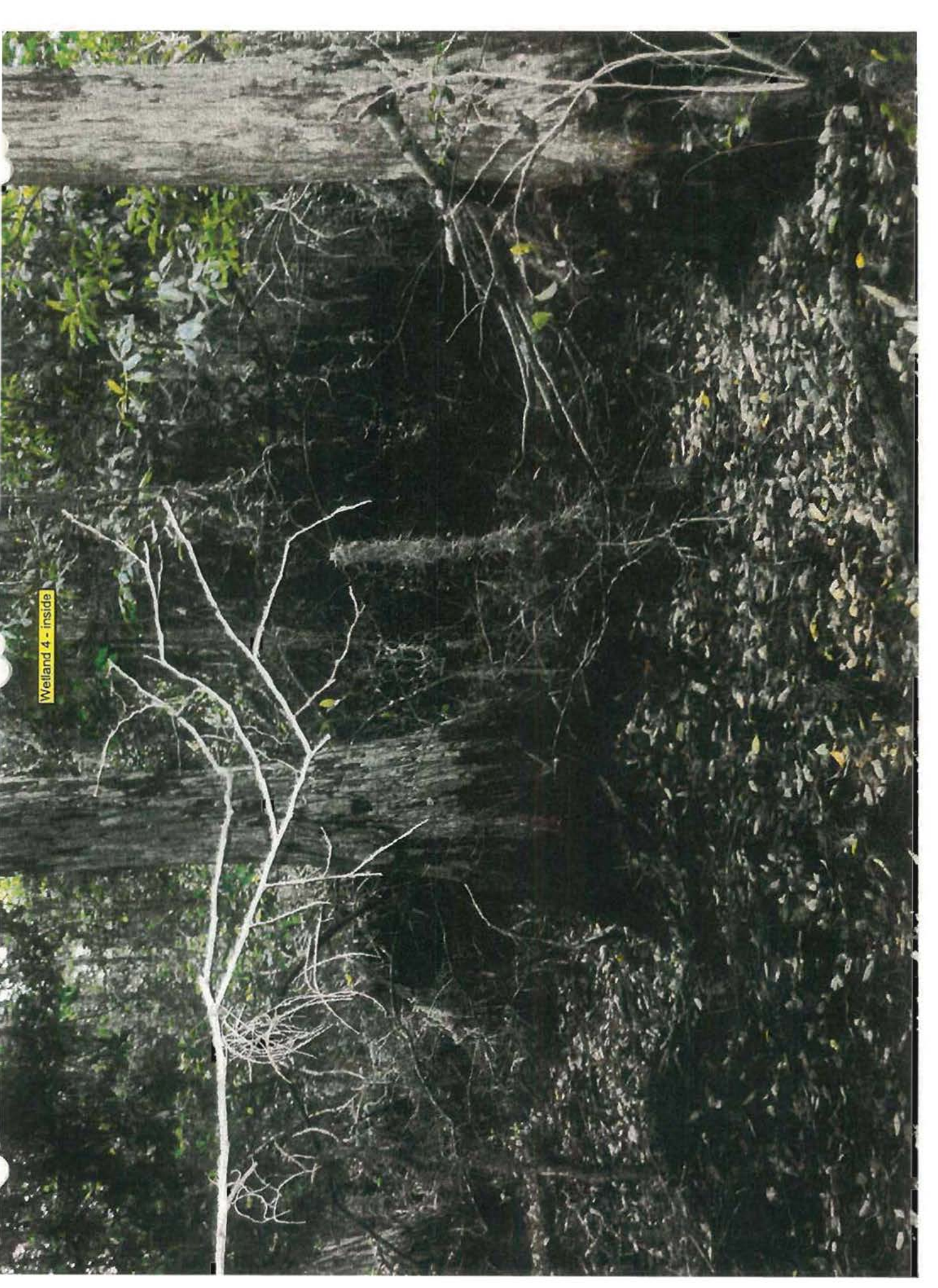
Wetland 3 - from west



Welland 4 - from north



Wetland 4 - inside



Wetland 5 - from south



Wetland 5 - Inside



Wetland 6 - from south



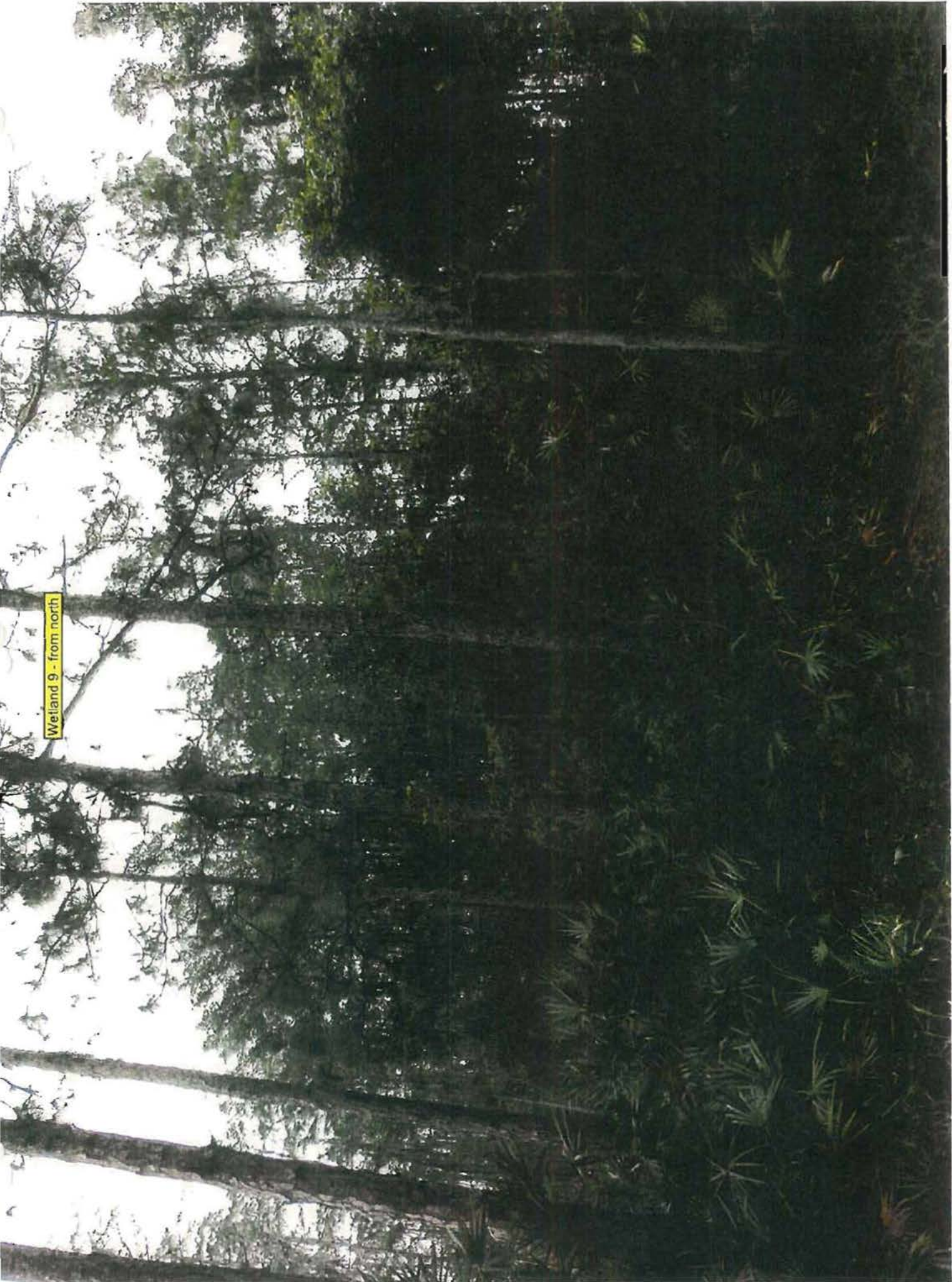


Wetland 7 - from south

Wetland 8 - from south



Wetland 9 - from north



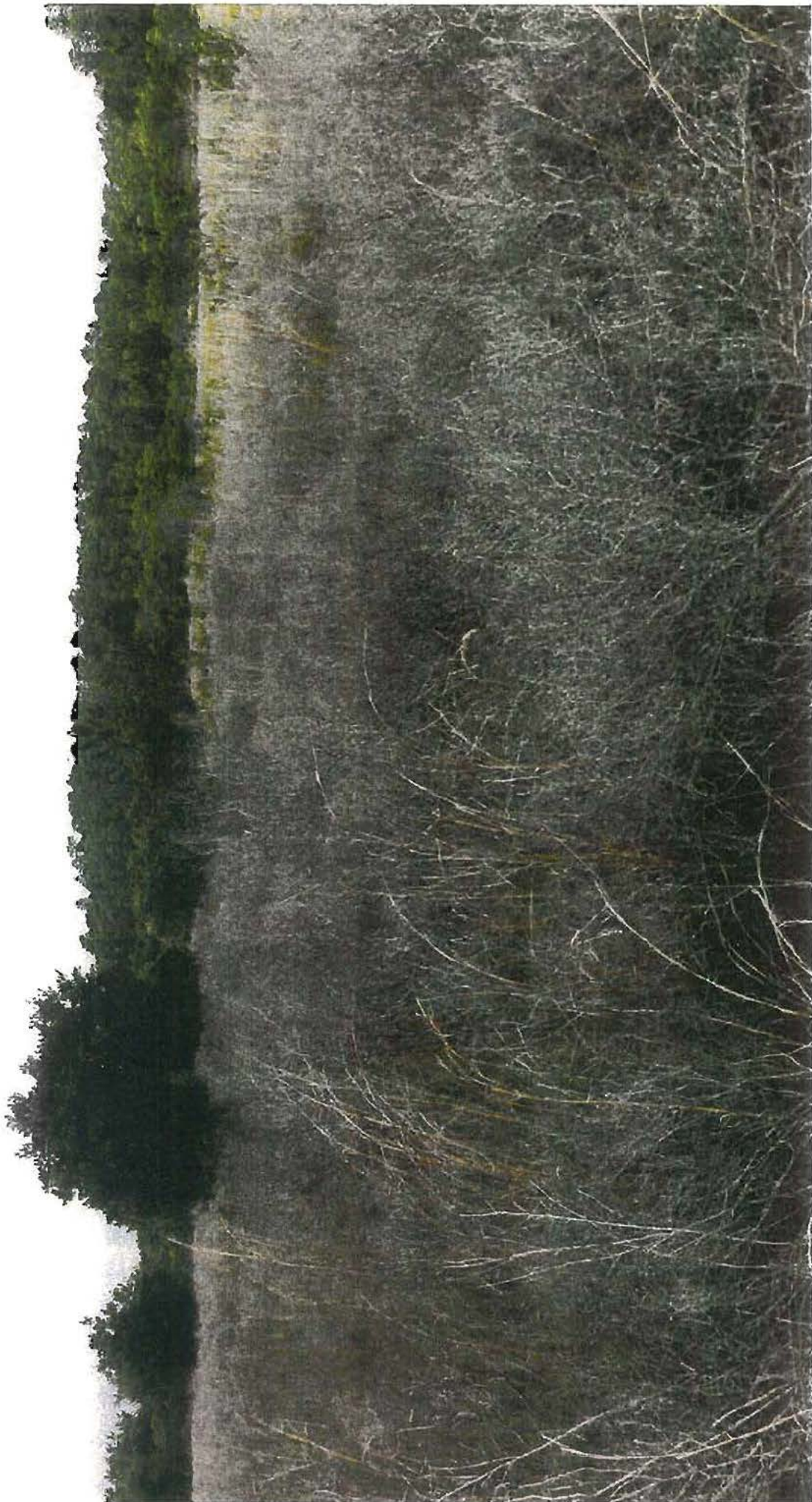
Wetland 10 - from west



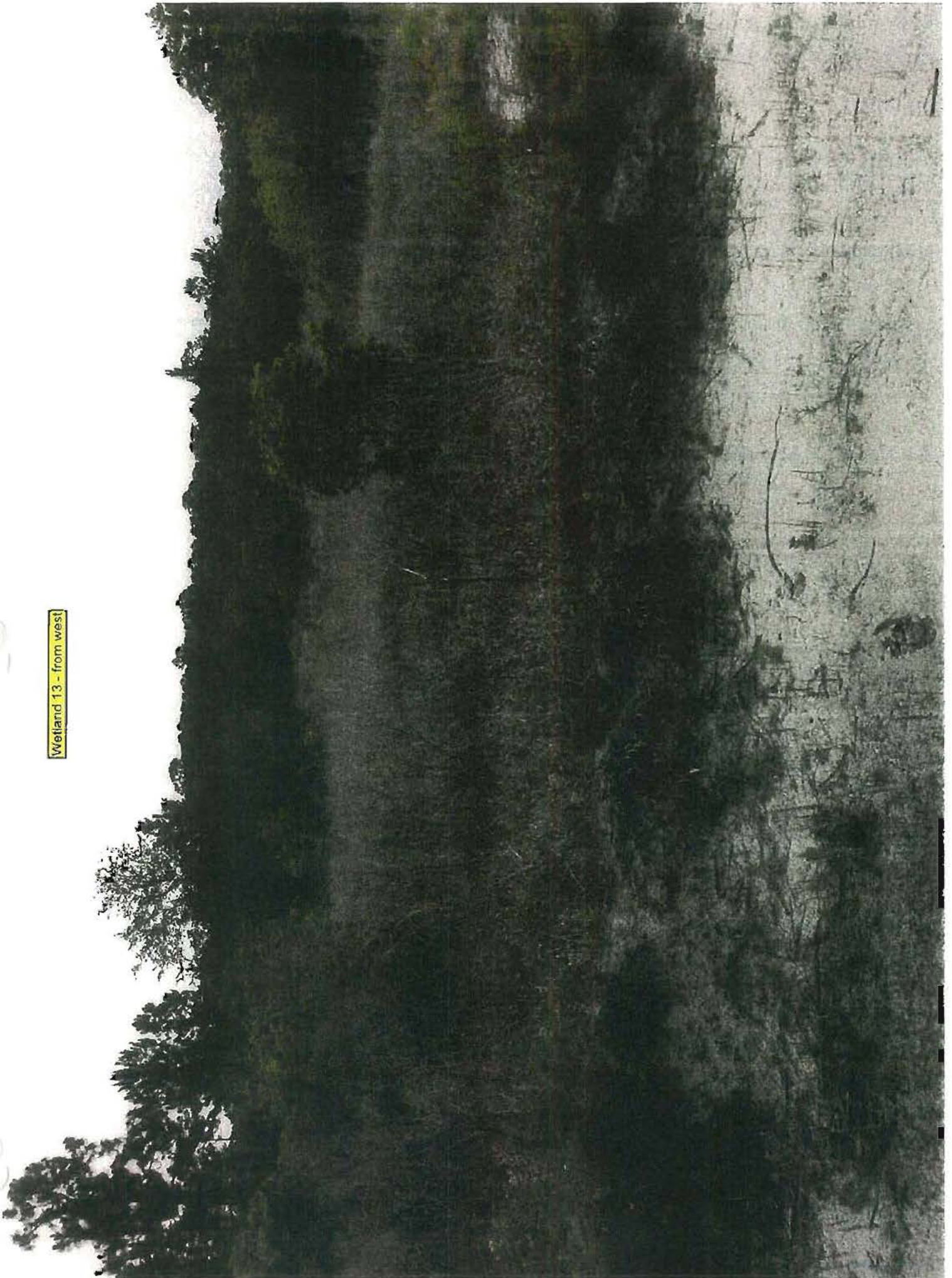
Wetland 11 - from south



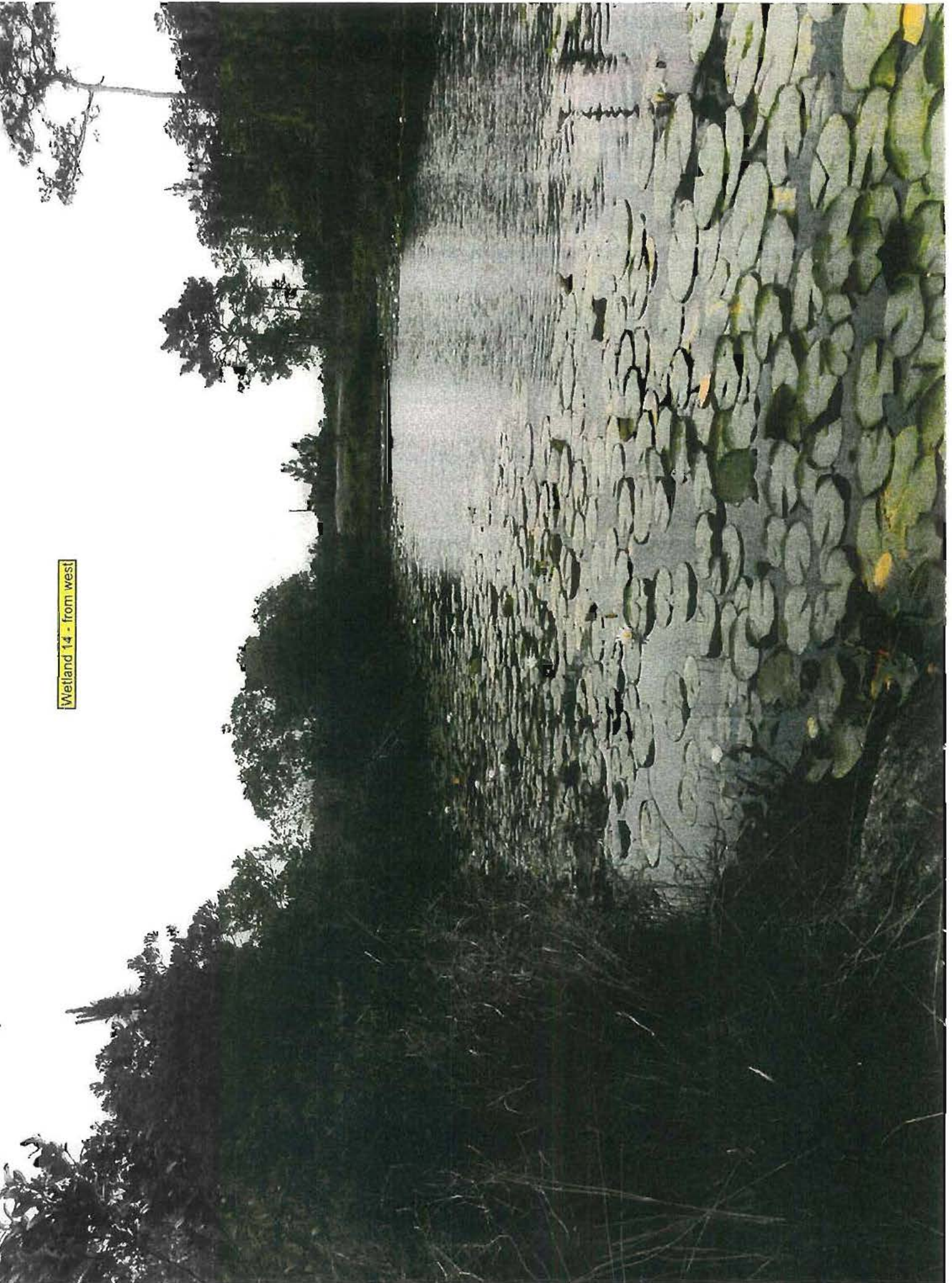
Wetland 12 - from north



Wetland 13 - from west

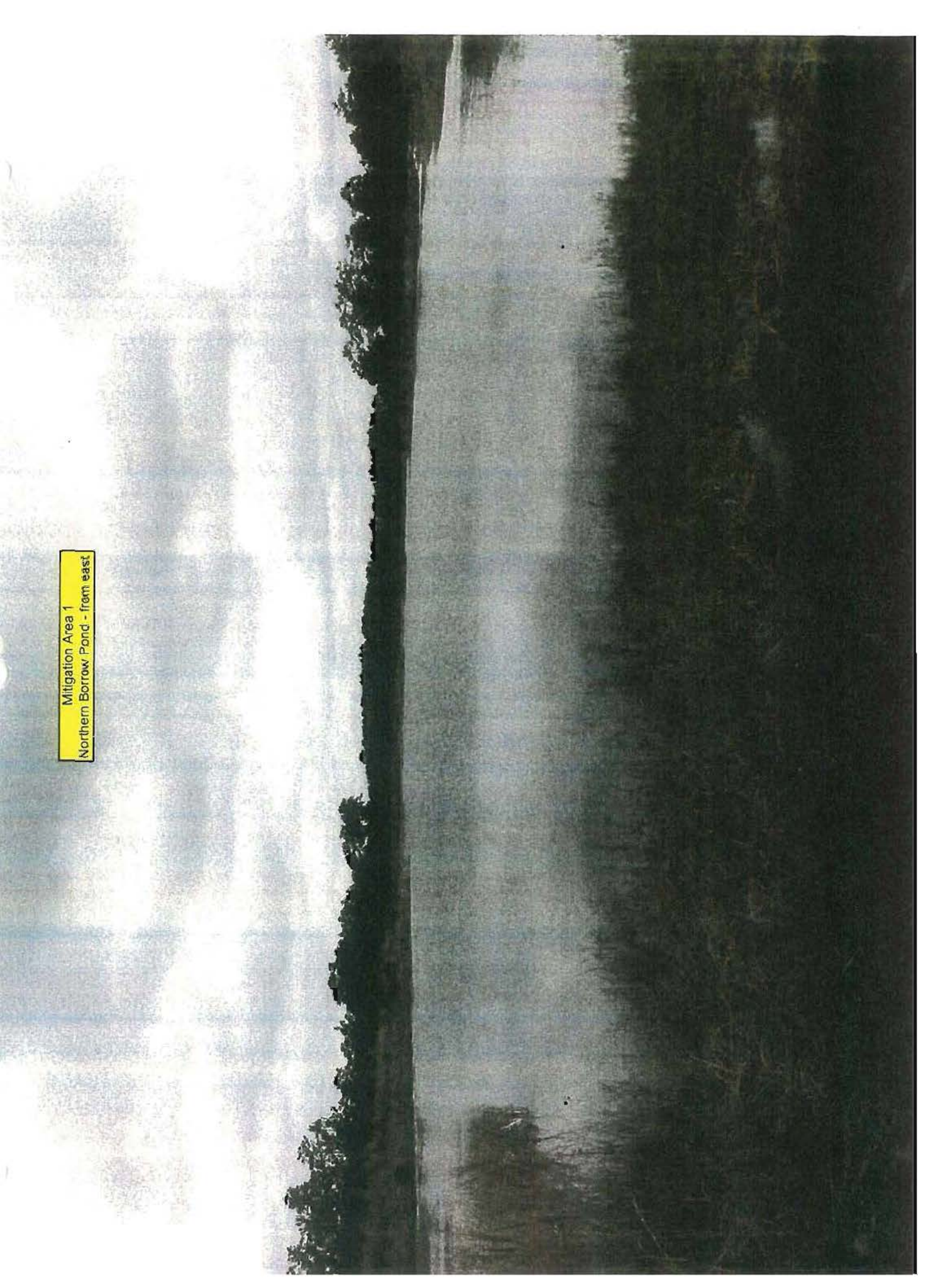


Wetland 14 - from west



MITIGATION AREA 1
PICTURES

Mitigation Area 1
Northern Borrow Pond - from east



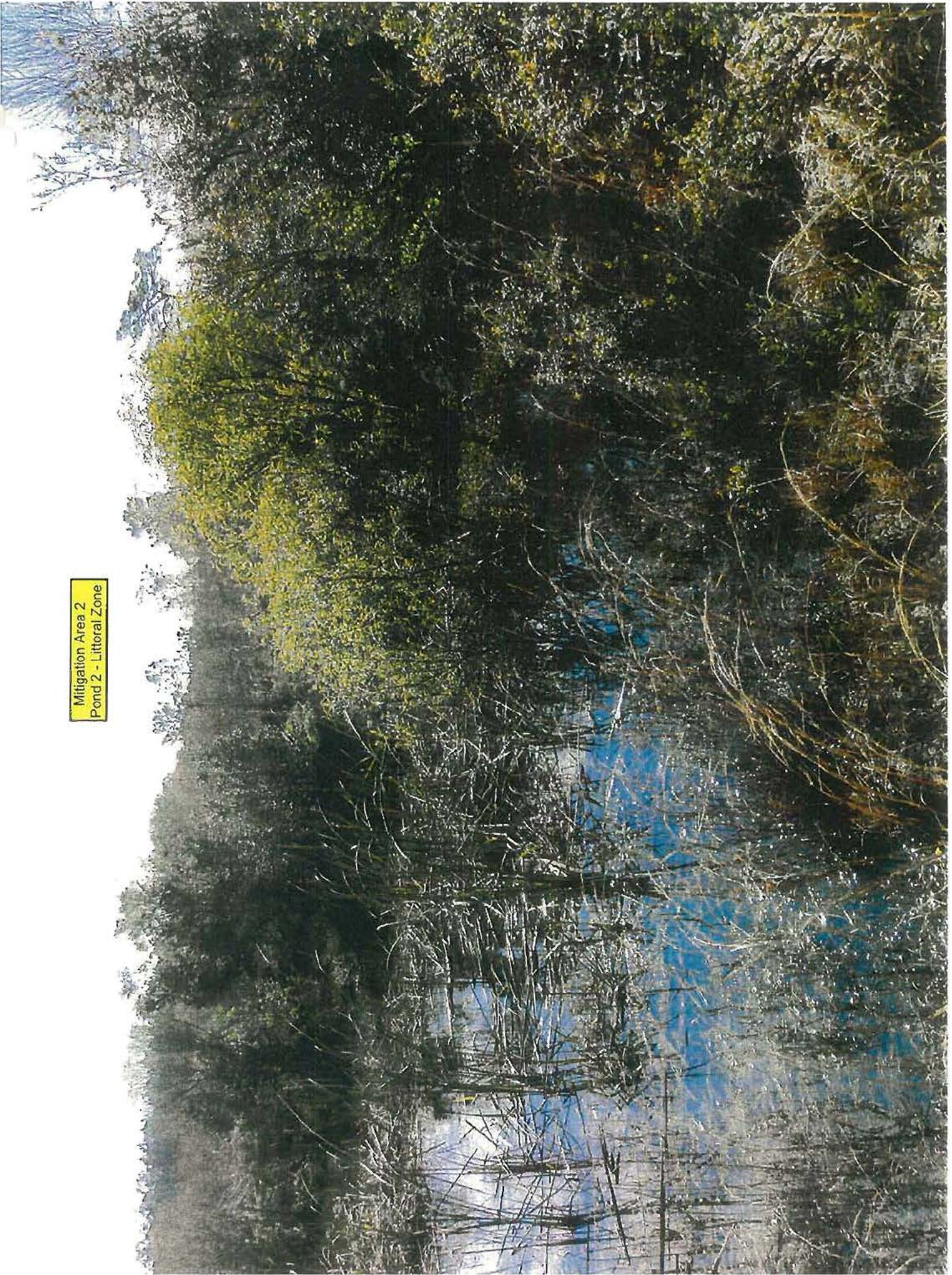
MITIGATION AREA 2

PICTURES

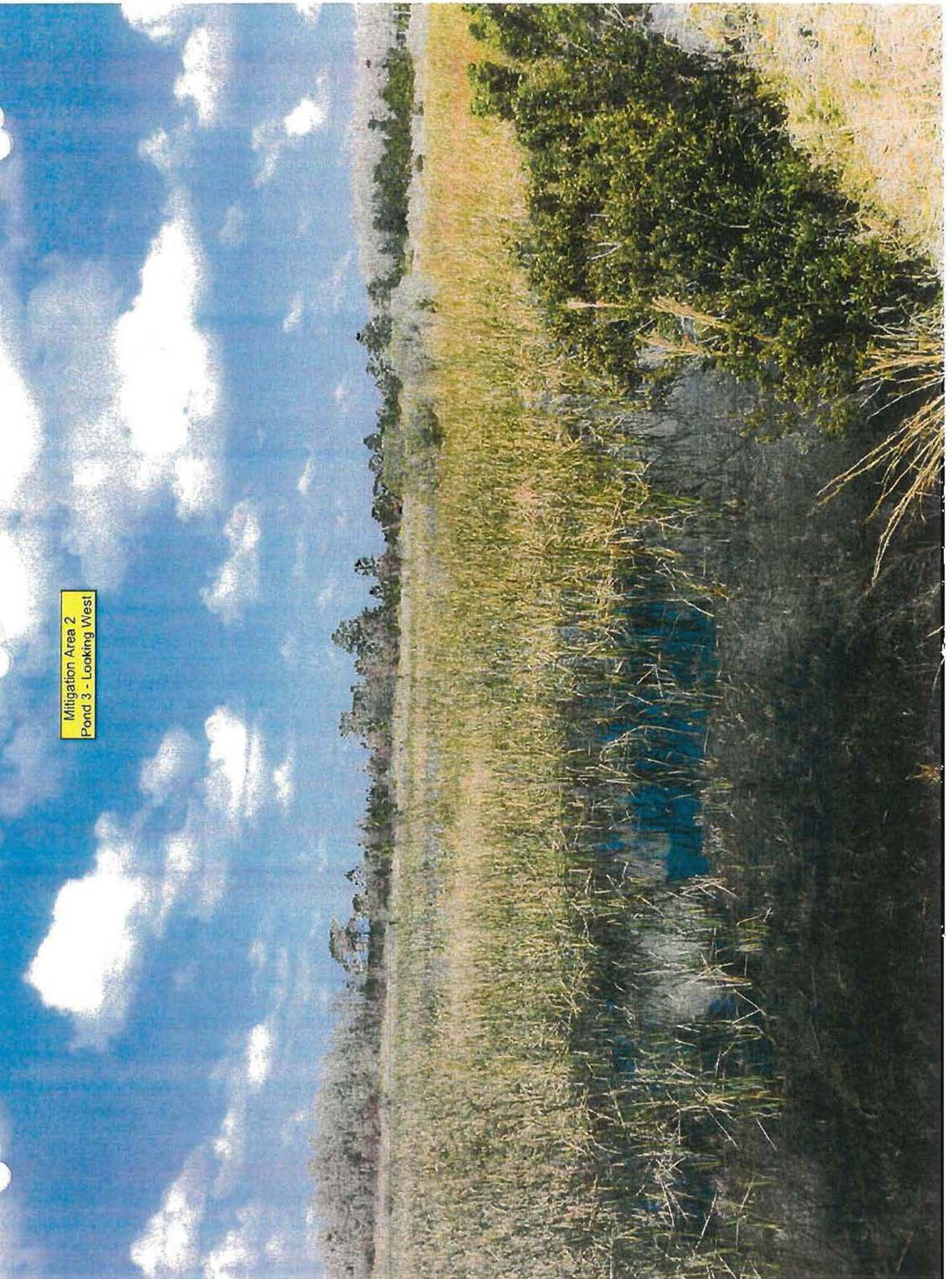
Mitigation Area 2
Pond 2 -From East



Mitigation Area 2
Pond 2 - Littoral Zone

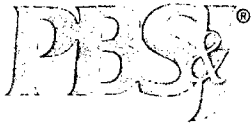


Mitigation Area 2
Pond 3 - Looking West



APPENDIX B

Wildlife Survey Notes



An employee-owned company

General Consultant
Florida's Turnpike Enterprise
Florida Department of Transportation



MEMORANDUM

DATE: May 22, 2009

TO: File

FROM: Fred Gaines *FG*

SUBJECT: FPID 258958-1 Suncoast Parkway – Ridge Road Interchange
Field Review Memo
Pasco County, Florida

On May 21, 2009 Turnpike biologists (John Post, PWS and Fred Gaines, PWS) conducted wetland assessment and opportunistic wildlife species surveys within the proposed right of way of the proposed Suncoast Parkway - Ridge Road Interchange in Pasco County. Access to the proposed interchange right of way was limited on the east outside of the Suncoast Parkway right of way on the Bexley Property as access permission was not obtained after repeated calls to the Bexley contact. Nevertheless pedestrian surveys were conducted on the eastern fence-line of the Suncoast Parkway. The relative open improved pasture land-use on the Bexley property and results of prior surveys conducted in this location during the Suncoast Parkway design/construction allowed for a high confidence determination that no wetland fatal flaws exist in the Bexley portion of the interchange.

The following is a list of all wildlife species observed during the field review.

SCIENTIFIC NAME	COMMON NAME
<i>Alligator mississippiensis</i>	American alligator
<i>Thryothorus ludovicianus</i>	carolina wren
<i>Ardea herodias</i>	great blue heron
<i>Parula americana</i>	northern parula
<i>Cardinalis cardinalis</i>	northern cardinal
<i>Corvus brachyrhynchos</i>	American crow
<i>Odocoileus virginianus</i>	white-tailed deer
<i>Pipilo erythrophthalmus</i>	rufus-sided towhee
<i>Egretta caerulea</i>	little blue heron
<i>Egretta thula</i>	snowy egret
<i>Rana sphenoccephala</i>	leopard frog
<i>Aix sponsa</i>	wood duck
<i>Hyla cinerea</i>	green tree frog
<i>Acris gryllus dorsalis</i>	Florida cricket frog
<i>Vireo griseus</i>	white-eyed vireo
<i>Hyla squirella</i>	squirrel tree frog
<i>Agelaius phoeniceus</i>	red-winged blackbird
<i>Rana grylio</i>	pig frog
<i>Bufo quercicus</i>	oak toad

<i>Sus scrofa</i>	pig
<i>Heterandria Formosa</i>	least killifish
<i>Gambusia holbrooki</i>	mosquitofish
--	unidentified snake
--	unidentified turtle
<i>Sylvilagus floridanus</i>	eastern cottontail
<i>Dendroica spp.</i>	warbler



An employee-owned company

MEMORANDUM

DATE: April 6, 2010
TO: File
FROM: Fred Gaines *FG*
SUBJECT: FPID 258958-1 Suncoast Parkway – Ridge Road Interchange
 Field Review Memo, Pasco County, Florida

On March 19, 2010 Turnpike biologists (John Post, PWS and Fred Gaines, PWS) conducted specific and opportunistic listed wildlife species surveys within the proposed right of way of the proposed Suncoast Parkway - Ridge Road Interchange in Pasco County. The surveys followed the Florida Fish and Wildlife Conservation Commission (FFWCC) and U.S. Fish and Wildlife Service (USFWS) accepted techniques. The surveys consisted of meandering pedestrian surveys through the various habitats encountered within the project area. Detailed descriptions of the project's existing land use are located in the project file and has not been included in this memo. Based on discussions with the FFWCC and USFWS, previous listed species surveys conducted by Pasco County's Ridge Road project are sufficient except for gopher tortoise (*Gopherus polyphemus*), Florida burrowing owl (*Athene cunicularia floridana*) and the gopher frog (*Rana capito*).

The following listed species are expected to occur within Pasco County.

SCIENTIFIC NAME	COMMON NAME	State	Federal	Observed
<i>Drymarchon corais couperi</i>	eastern indigo snake	T	T	no
<i>Pituophus melanoleucus mugitus</i>	Florida pine snake	SSC	--	no
<i>Stilosoma extenuatum</i>	short-tailed snake	SSC	--	no
<i>Alligator mississippiensis</i>	American alligator	SSC	--	yes
<i>Gopherus polyphemus</i>	gopher tortoise	T	--	no
<i>Rana capito</i>	gopher frog	SSC	--	no
<i>Egretta thula</i>	snowy egret	SSC	--	yes
<i>Egretta caerulea</i>	little blue heron	SSC	--	no
<i>Egretta tricolor</i>	tricolored heron	SSC	--	no
<i>Eudocimus albus</i>	white ibis	SSC	--	no
<i>Ajaia ajaja</i>	roseate spoonbill	SSC	--	no
<i>Mycteria americana</i>	wood stork	E	E	no
<i>Haliaeetus leucocephalus</i>	bald eagle	*	*	no
<i>Falco sparverius paulus</i>	Southeastern American kestrel	SSC	--	**
<i>Aramus guarauna</i>	limpkin	SSC	--	no
<i>Grus canadensis pratensis</i>	Florida sand hill crane	T	--	no
<i>Athene cunicularia floridana</i>	Florida burrowing owl	SSC	--	no
<i>Picoides borealis</i>	red-cockaded woodpecker	SSC	E	no
<i>Aphelocoma coerulescens</i>	Florida scrub-jay	T	T	no
<i>Sciurus niger</i>	Sherman's fox squirrel	SSC	--	no
<i>Podomys floridana</i>	Florida mouse	SSC	--	no
<i>Ursus americanus floridanus</i>	Florida black bear	T	--	no

*The bald eagle has been delisted by the USFWS and FFWCC. It is regulated under state/federal laws.

**Migratory sub-species individuals may have been present at the time of survey.

Access to the proposed interchange right of way was limited on the east outside of the Suncoast Parkway right of way on the Bexley Property as access permission was not obtained after repeated calls to the Bexley contact. Nevertheless pedestrian surveys were conducted on the eastern fence-line of the Suncoast Parkway. The relative open improved pasture land-use on the Bexley property and results of prior surveys conducted in this location during the Suncoast Parkway design/construction allowed for a high confidence determination that no listed species fatal flaws exist in the Bexley portion of the interchange.

Approximately 89% (42 acres) of the west side of the interchange (Suncoast Parkway and Serenova – total of 47 acres) and approximately 10% (3 acres) of the east side (Bexley – total of 34 acres) was surveyed for listed species. The Suncoast Parkway and Serenova sections were covered by 27,880 linear feet of 60 foot wide and 4,920 linear feet of 30 foot wide meandering transects. The Bexley section was covered by 4,920 linear feet of 30 foot wide linear transect.

The following is a list of all wildlife species observed during the surveys.

SCIENTIFIC NAME	COMMON NAME
<i>Alligator mississippiensis</i>	American alligator
<i>Thryothorus ludovicianus</i>	carolina wren
<i>Dumetella carolinensis</i>	gray catbird
<i>Parula americana</i>	northern parula
<i>Meleagris gallopavo</i>	wild turkey
<i>Procyon lotor</i>	raccoon
<i>Odocoileus virginianus</i>	white-tailed deer
<i>Pipilo erythrophthalmus</i>	rufus-sided towhee
<i>Buteo lineatus</i>	red-shouldered hawk
<i>Egretta thula</i>	snowy egret
<i>Rana sphenoccephala</i>	leopard frog
<i>Porphyryla martinica</i>	purple gallinule
<i>Felis rufus</i>	bobcat
<i>Acris gryllus dorsalis</i>	Florida cricket frog
<i>Vireo griseus</i>	white-eyed vireo
<i>Ardea alba</i>	great egret
<i>Agelaius phoeniceus</i>	red-winged blackbird
<i>Hirundo rustica</i>	barn swallow
<i>Progne subis</i>	purple martin
<i>Sus scrofa</i>	pig
<i>Heterandria Formosa</i>	least killifish
<i>Gambusia holbrooki</i>	mosquitofish
<i>Mimus polyglottos</i>	northern mockingbird
<i>Anhinga anhinga</i>	anhinga
<i>Columbina passerina</i>	common ground-dove
<i>Dendroica spp.</i>	warbler

The American alligator (*Alligator mississippiensis* – scat and approx. 6 hatchlings in wetland 14 and one adult in a Suncoast Parkway stormwater management facility) and the snowy egret (*Egretta thula* – one individual flyover) were the only listed species observed in the project vicinity. Several kestrels (*Falco sparverius*) were observed on the fence line and several snags are present within the project, but no kestrels were observed with the snags. Since the survey was conducted during March outside of the breeding season (April – September) and when the migratory sub-species is present, it cannot be confirmed that this project has involvement with the listed southeastern American kestrel. Prior to construction, Turnpike will conduct a breeding season survey to determine presence/absence. Several abandoned gopher tortoise burrows were observed along the fence line between Bexley and the Suncoast Parkway. No active or inactive gopher tortoise burrows were observed. Due to the highly mobile nature of this species, a complete project gopher tortoise survey will be conducted prior to construction commencement.

Currently no listed species takes are anticipated by the project due to the medium to low quality habitat present within the project. Turnpike's proposed mitigation plan (Cone Borrow Pit donation, left over credits from Suncoast Parkway or Senate Bill 1986 – Connerton) are sufficient to offset direct, secondary and cumulative impacts to listed species. Once the Bexley property is acquired a more detailed listed species survey will be conducted. If any listed species are encountered, Turnpike will coordinate with the FFWCC and USFWS as required.

APPENDIX C

Wetland Mitigation Excess Credits
(Suncoast Parkway 1 File of Record)

TABLE II-3
SUNCOAST PARKWAY PROJECT I
WETLAND IMPACTS, MITIGATION RATIOS AND REQUIRED MITIGATION CREDITS

Quality	Wetland Type	Status	Design Section					Total	Mitigation Ratio*	Required Mitigation Credits
			1A/1B/2A	2B	3	4	6			
Low	Palustrine Forested	Disturbed		0.13				0.13	x 1	0.13
Low	Palustrine Emergent Marsh	Disturbed	16.54	45.79	1.34	0.03		63.7	16.54 x 0.5 40.0 x 0.6 7.16 x 0.8	8.27 24.00 5.73
Low	Palustrine Scrub/shrub	Disturbed	9.64	2.01	1.49	0.05		13.19	x 1	13.19
Low	Palustrine Open Water	Disturbed	3.43					3.43	x 1	3.43
Low Total			29.61	47.93	2.83	0.08	0	80.45	varies	54.75
Medium	Palustrine Forested	Undisturbed	13.15	24.81	12.48	0.16		50.60	x 2	101.20
Medium	Palustrine Emergent Marsh	Disturbed				0.03	0.33	0.36	x 1.2	0.43
Medium	Palustrine Emergent Marsh	Undisturbed		0.53	6.23	0.94		7.7	x 1.5	11.55
Medium	Palustrine Scrub/shrub	Undisturbed	1.26		4.38	0.83		6.47	x 1.7	11.00
Medium	Palustrine Aquatic Bed	Undisturbed			0.11	1.65		1.76	x 1.2	2.11
Medium Total			14.41	25.34	23.2	3.61	0.33	66.89	varies	126.29
High	Palustrine Forested	Undisturbed	3.39	23.98	16.66			44.03	x 2.5	110.08
High	Palustrine Emergent Marsh	Undisturbed			7.64	0.07		7.71	x 1.5	11.57
High	Palustrine Scrub/shrub	Undisturbed			6.48	0.01		6.49	x 2	12.98
High	Palustrine Aquatic Bed	Disturbed			3.32			3.32	x 1.5	4.98
High Total			3.39	23.98	34.1	0.08	0	61.55	varies	139.61
Grand Total			47.41	97.25	60.13	3.77	0.33	208.89	varies	320.65
									5% Contingency (10.44 x 1.5)	15.66
									Grand Total	336.31

* Mitigation ratios based on September 20, 1994 meeting with SWFWMD and subsequent conversations/meetings with SWFWMD and USACOE (see calculation and justification summary following this table).

Section II- Mitigation Plan

SUNCOAST PARKWAY PROJECT 1

(Worksheet for Table II-3)

Summary of
Calculations and Justifications for
Mitigation Credits

May 15, 1996

WPI No. 7150055
SPN 97869-1393

On September 20, 1994 a meeting was held with SWFWMD to discuss mitigation. Ratios were agreed to at that time ranging from 0.5:1 to 2.5:1. These ratios were used below as relative values for impacted wetlands to determine credits needed for mitigation. The following summarizes these calculations:

- 208.89 acres of wetland impact + 5% contingency = 219.33 acres
- The 219.33 acres were divided into value categories and weighted as follows:
 $(16.54 \text{ acres} \times .5) + (40.00 \text{ acres} \times .6) + (7.16 \text{ acres} \times .8) +$
 $(16.62 \text{ acres} \times 1) + (2.12 \text{ acres} \times 1.2) + (29.17 \text{ acres} \times 1.5) +$
 $(6.47 \text{ acres} \times 1.7) + (57.00 \text{ acres} \times 2) + (44.03 \text{ acres} \times 2.5) =$

Weighted credits needed for direct impacts	<u>336.31</u>
--	---------------
- Secondary impacts to 633.14 acres mitigated at a 0.1:1 ratio

Total secondary and cumulative impacts credits needed	<u>63.31</u>
Total wetland mitigation credits needed	<u>399.62</u>
- Per SWFWMD calculations, the Anclote River Ranch acquisition will account for 159.16 credits 159.16
- The Serenova Tract acquisition will account for 249.68 credits 249.68

Total wetland mitigation credits provided	<u>408.84 (+9.22)</u>
---	-----------------------

TABLE II-2
SUNCOAST PARKWAY PROJECT 1
PROPOSED MITIGATION CREDITS

Mitigation Site	Habitat Type	Acres	Mitigation Ratio	Wetland Mitigation Credits
Anclote River Ranch	Upland	2,570	20:1	128.5
	Wetland	679.3	60:1	11.32
	Disturbed marsh enhancement area and associated forested wetlands	386.7	20:1	19.34
	Total Credit			159.16
Serenova	Upland	4,224.04	20:1	211.20
	Wetland	2,308.54	60:1	38.48
	Total Credit			249.68
Total Mitigation Credits for Both Sites				408.84
Required Mitigation Credits				399.62**

* Mitigation ratios based on ERP rule and discussions with SWFWMD and USACOE.
 ** This total includes mitigation for secondary and cumulative impacts, which based on preliminary calculations and discussions with SWFWMD constitutes an additional 63.31 credits (see Page II-15).

WETLAND IMPACTS, MITIGATION RATIOS AND REQUIRED MITIGATION CREDITS

for additional information
associated with Ridge Rd.
(shaded #'s revised)

Quality	Wetland Type	Status	Design Section					Total	Mitigation Ratio *	Required Mitigation Credits
			1A/1B/2A	2B	3	4	6			
Low	Palustrine Forested	Disturbed		0.13	0.08			0.21	x 1	0.21
								18.78 x 0.5		9.39
Low	Palustrine Emergent Marsh	Disturbed	16.54	43.81	4.06	0.03		66.44	40.50 x 0.6	24.30
								7.16 x 0.8		5.73
Low	Palustrine Scrub/shrub	Disturbed	9.64	2.01	2.03	0.05		13.73	x 1	13.73
Low	Palustrine Open Water	Disturbed	3.43					3.43	x 1	3.43
Low	Palustrine Aquatic Bed				0.15			0.15	x 0.5	0.08
		Low Total	29.61	47.95	6.32	0.08	0	83.96	varies	56.87
Medium	Palustrine Forested	Undisturbed	13.15	24.81	14.81	0.16		52.93	x 2	105.86
Medium	Palustrine Forested	Disturbed			1.27			1.27	x 1.5	1.91
Medium	Palustrine Emergent Marsh	Disturbed				0.03	0.33	0.36	x 1.2	0.43
Medium	Palustrine Emergent Marsh	Undisturbed		0.53	6.97	0.94		8.44	x 1.5	12.66
Medium	Palustrine Scrub/shrub	Undisturbed	1.26		4.38	0.83		6.47	x 1.7	11.00
Medium	Palustrine Aquatic Bed	Undisturbed			0.11	1.65		1.76	x 1.2	2.11
		Medium Total	14.41	25.34	27.54	3.61	0.33	71.23	varies	133.97
High	Palustrine Forested	Undisturbed	3.39	23.98	20.77			48.14	x 2.5	120.35
High	Palustrine Emergent Marsh	Undisturbed			7.64	0.07		7.71	x 1.5	11.57
High	Palustrine Scrub/shrub	Undisturbed			6.48	0.01		6.49	x 2	12.98
High	Palustrine Aquatic Bed	Disturbed			3.32			3.32	x 1.5	4.98
		High Total	3.39	23.98	38.21	0.08	0	65.66	varies	149.88
		Grand Total	47.41	97.27	72.07	3.77	0.33	220.85	varies	340.72
								Grand Total		340.72

* Mitigation ratios based on September 20, 1994 meeting with SWFWMD and subsequent conversations/meetings with SWFWMD and USACOE (see calculation and justification summary following this table).

SUNCOAST PARKWAY PROJECT I

(Worksheet for Table II-3)

Summary of
Calculations and Justifications for
Mitigation Credits

May 15, 1996

WPI No. 7150055
SPN 97869-1393

On September 20, 1994 a meeting was held with SWFWMD to discuss mitigation. Ratios were agreed to at that time ranging from 0.5:1 to 2.5:1. These ratios were used below as relative values for impacted wetlands to determine credits needed for mitigation. The following summarizes these calculations:

- Wetland impact acres = 220.82 acres
- The 220.82 acres were divided into value categories and weighted as follows:
(18.93 acres x .5) + (40.50 acres x .6) + (7.16 acres x .8) +
(17.37 acres x 1) + (2.12 acres x 1.2) + (20.74 acres x 1.5) +
(6.47 acres x 1.7) + (59.00 acres x 2) + (48.14 acres x 2.5) =

Weighted credits needed for direct impacts 340.71

- Secondary impacts to 633.14 acres mitigated at a 0.1:1 ratio

Total secondary and cumulative impacts credits needed 63.31

Total wetland mitigation credits needed 404.02

- Per SWFWMD calculations, the Anclote River Ranch acquisition will account for 159.16 credits 159.16
- The Serenova Tract acquisition will account for 249.68 credits 249.68

Total wetland mitigation credits provided 408.84 (+ 4.82)

TABLE II-2
SUNCOAST PARKWAY PROJECT 1
PROPOSED MITIGATION CREDITS

Mitigation Site	Habitat Type	Acres	Mitigation Ratio *	Wetland Mitigation Credits
Anclote River Ranch	Upland	2,570	20:1	128.5
	Wetland	679.3	60:1	11.32
	Disturbed marsh Enhancement area and associated Forested wetlands	386.7	20:1	19.34
	Total Credit			159.16
Serenova	Upland	4,224.04	20:1	211.20
	Wetland	2,308.54	60:1	38.48
	Total Credit			249.68
Total Mitigation Credits for Both Sites				408.84
Required Mitigation Credits				404.02 **

* Mitigation ratios based on ERP rule and discussions with SWFWMD and USACOE.

** This total includes mitigation for secondary and cumulative impacts, which based on preliminary calculations and discussions with SWFWMD constitutes an additional 63.31 credits (see page II-15).

Section II - Mitigation Plan

SECTION VIA

SUPPLEMENTAL INFORMATION SUBMITTED TO SWFWMD TO FINALIZE MITIGATION PLAN

This section of the USACE application submittal includes mitigation information submitted to SWFWMD as part of their Request for Additional Information on May 14, 2010. The information is a refinement to the mitigation plan outlined in Section VI which designates three (3) options for mitigation. The information submitted in this section is the option chosen by SWFWMD. They have not yet issued the permit for this project since it is a joint application with Pasco County's RRE project, but do not have any additional comments or questions on the interchange portion of this project (see email correspondence at the end of this section).

It is critical to note that the USACE (Mike Nowicki) has been in favor of accepting the mitigation plan outlined in Section III-2.1 (Cone Borrow Pit Property) outlined in on page 18 of the previous Section 6. A meeting and several phone conversations were held with Mike and he indicated the concept of turning over the Cone Borrow Pit Property to SWFWMD would be sufficient mitigation for the 11.82 acres of wetland impact associated with this project (based on WRAP evaluations). The evaluation of the Cone Borrow Pit Property is discussed in the previous section and the data supporting this mitigation option are shown in Figure III-1, Table III-1 (WRAP summary) and in Appendix A in Section VI under "Wetland WRAP Evaluations" and "Mitigation WRAP Evaluations". As can be seen from the WRAP scores the functional loss units total 6.03 while the functional gain units for the preservation of the Cone Borrow Pit Property total 9.69. Therefore, the functional gain of the additional wetland areas put into conservation will exceed the functional loss by 3.66 units. Mike Nowicki never completely reviewed the mitigation values submitted as part of the ERP Joint Application in April of 2010 but as discussed above did agree with the concept. It is not the intent of this section to indicate the USACE has a preference or has accepted a mitigation option. However, with the combination of mitigation options available for the interchange it is likely that the USACE can accept the Cone Borrow Pit Property or a combination of the proposals offered. There is a conversation record and an email from Mr. Nowicki at the end of this section indicating his position on this project, specifically mitigation.

**Supplemental Responses to Questions 5b, 5c and 7 of
SWFWMD's May 14, 2010 RAI**

5. Excess Mitigation Credits from Suncoast Parkway

- b. As indicated by District staff, including Len Bartos' April 7, 2009 email to John Post, the District has reviewed the Suncoast Parkway Files of Record several times and although mention was made of possible excess mitigation credit and a 5% contingency, in the final outcome, the District did not credit the Suncoast Parkway Mitigation permit with such. Additionally, the full amount of credit provided was viewed as providing adequate primary and secondary wetland impact mitigation and this fact was used in explaining in public forums why the District had reasonable assurance that habitat functions would be replaced. However, the District invites the Applicant to review the File of Record and provide additional information in support of the opinion that excess mitigation credit is available.

There are 241.20 acres within the Serenova tract that were not used as mitigation for the Suncoast Parkway Project 1 and are available as mitigation for this interchange project. This area is shown on the attached Figures 1, 2 and 3. The UMAM calculations indicate that this portion of the Serenova tract mitigates for 9.49 acres of the wetland impacts associated with this project. This leaves 2.33 acres of wetland impacts that will be mitigated by utilizing Chapter 373.4137 F. S. Please see the enclosed text, tables and UMAM sheets (Enclosure 1) for a breakdown of the complete mitigation plan for the Suncoast Parkway/Ridge Road Interchange project.

Chapter 373.4137 Florida Statutes

- c. In the District's opinion this wetland mitigation option is the most viable. This project is included in the District's 2010 FDOT Mitigation Plan and mitigation has already been assigned. It would appear that this is the most viable option of the three proposed. If this mitigation option is not viable, provide an explanation and provide alternative mitigation. Reference Subsections 40D-4.101(l) (c) and (e), F.A.C., and Section 3.3, B.O.R

Through coordination with Mark Brown, the assigned mitigation is being revised to include credits from the Connerton Preserve. The Turnpike agrees that this option is viable and will be used to offset the 2.33 acres of remaining wetland impacts that were not mitigated for within Serenova. A total of \$239,894.50 will be paid to SWFWMD after issuance of the ERP permit to fulfill the requirements of Chapter 373.4137 F.S. See the attached text as well as Table III-2 (Revised) provided in Enclosure 1.

7. Please explain the relative timing between the various mitigation proposals for the entire project and all of the wetland impacts. This should include the temporary impacts. Reference Rules 40D-4101(l) (c) and (e), F.A.C. and Subsection 3.3.3, B.O.R.

SWFWMD already owns the portion of the Serenova tract that will be used for the majority of the mitigation for this interchange project. The Turnpike will be utilizing Chapter 373.4137 F.S. to offset those wetland impacts not offset by the 241.20 acres within the Serenova property. The process associated with Chapter 373.4137 F.S. will take place before construction. The Turnpike is not proposing any temporary wetland impacts.

ENCLOSURE 1

SWFWMD RAI #1 RESPONSE FDOT FLORIDA'S TURNPIKE ENTERPRISE RIDGE ROAD INTERCHANGE WITH SUNCOAST PARKWAY 1 (Phase II)

WETLAND MITIGATION (Revised based on SWFWMD RAI Question 5)

The Turnpike Enterprises original mitigation plan for the Ridge Road Interchange with Suncoast Parkway 1 (Phase II) was divided into three potential concepts. These options were:

1. **Cone Borrow Pit Property** – It has been agreed that this option is not viable and has been dropped from consideration.
2. **Excess Mitigation Credits from Suncoast Parkway Project 1** – This option is viable and the proposal is outlined below.
3. **Chapter 373.4137 Florida Statutes** – Mitigation Option #2 does not provide enough mitigation to offset all of the wetland impacts of this interchange project. Therefore, the wetland impacts that are not mitigated for by Option #2 will be offset by utilizing Chapter 373.4137 F.S. A discussion of this option is also presented below.

Wetland Mitigation Proposal

Option 2 - Excess Mitigation Credits from Suncoast Parkway Project 1

On November 18, 1997, ERP permit #4315724.00 was issued by SWFWMD. This permit represented the mitigation plan for the entire 42 miles of the Suncoast Parkway Project 1. The mitigation plan specified the preservation of 10,168 acres of land known as the Serenova and Anclote River Ranch tracts. A total of 9,926.80 acres of this land were utilized to mitigate for the 206.84 acres of wetland impacts associated with the Suncoast Parkway Project 1. The remaining 241.20 acres of the property, represented by three tracts of land located within Serenova, were considered excess mitigation land and are available to be used as mitigation for other projects within the drainage basin. Table 1 shows the acreage of each of the habitats found on the 241.2 acre Serenova mitigation site based on the Florida Land Use Cover and Forms Classification System (FLUCFCS).

TABLE 1
Acreage within Serenova to be used as Mitigation for the
Suncoast Parkway/Ridge Road Interchange

FLUCFCS CODE	Description	Acreage
210	Cropland and Pastureland	6.15
320	Shrub and Brushland (Rangeland)	48.70
411	Pine Flatwoods	94.25
434	Upland Hardwood Forest	6.42
615	Wetland Hardwood Forest	0.44
621	Cypress	75.76
630	Wetland Forested Mixed	2.17
641	Herbaceous Marsh	7.31
TOTAL		241.2

The locations of the sites are shown on Figures 1 and 2 as Areas A, B and C. The areas are further portrayed on Figure 3 by superimposing the location of the sites on a Southwest Florida Water Management District 2008 FLUCFCS map. Level III data are utilized on this map and the acreages shown in Table 1 are calculated from this 2008 FLUCFCS map. SWFWMD's Project Off-site Mitigation Summary table (Table Three) is also included as part of this submittal.

The State of Florida Uniform Mitigation Assessment Method (UMAM) was utilized to determine the Functional Gain units associated with the 241.2 acre Serenova mitigation site. Table 2 provides a summary of the UMAM evaluation by FLUCFCS code. The 241.2 acres have a Relative Functional Gain of approximately 0.02 units and an overall Functional Gain of 5.48 units.

TABLE 2
UMAM Evaluation Summary of Serenova Mitigation Site

FLUCFCS CODE	Description	Acreage	Relative Functional Gain	Overall Functional Gain
210	Cropland and Pastureland	6.15	0.000	0.00
320	Shrub and Brushland (Rangeland)	48.70	0.000	0.00
411	Pine Flatwoods	94.25	0.035	3.31
434	Upland Hardwood Forest	6.42	0.026	0.16
615	Wetland Hardwood Forest	0.44	0.023	0.01
621	Cypress	75.76	0.023	1.77
630	Wetland Forested Mixed	2.17	0.023	0.05
641	Herbaceous Marsh	7.31	0.023	0.17
TOTAL		241.2	0.020	5.48

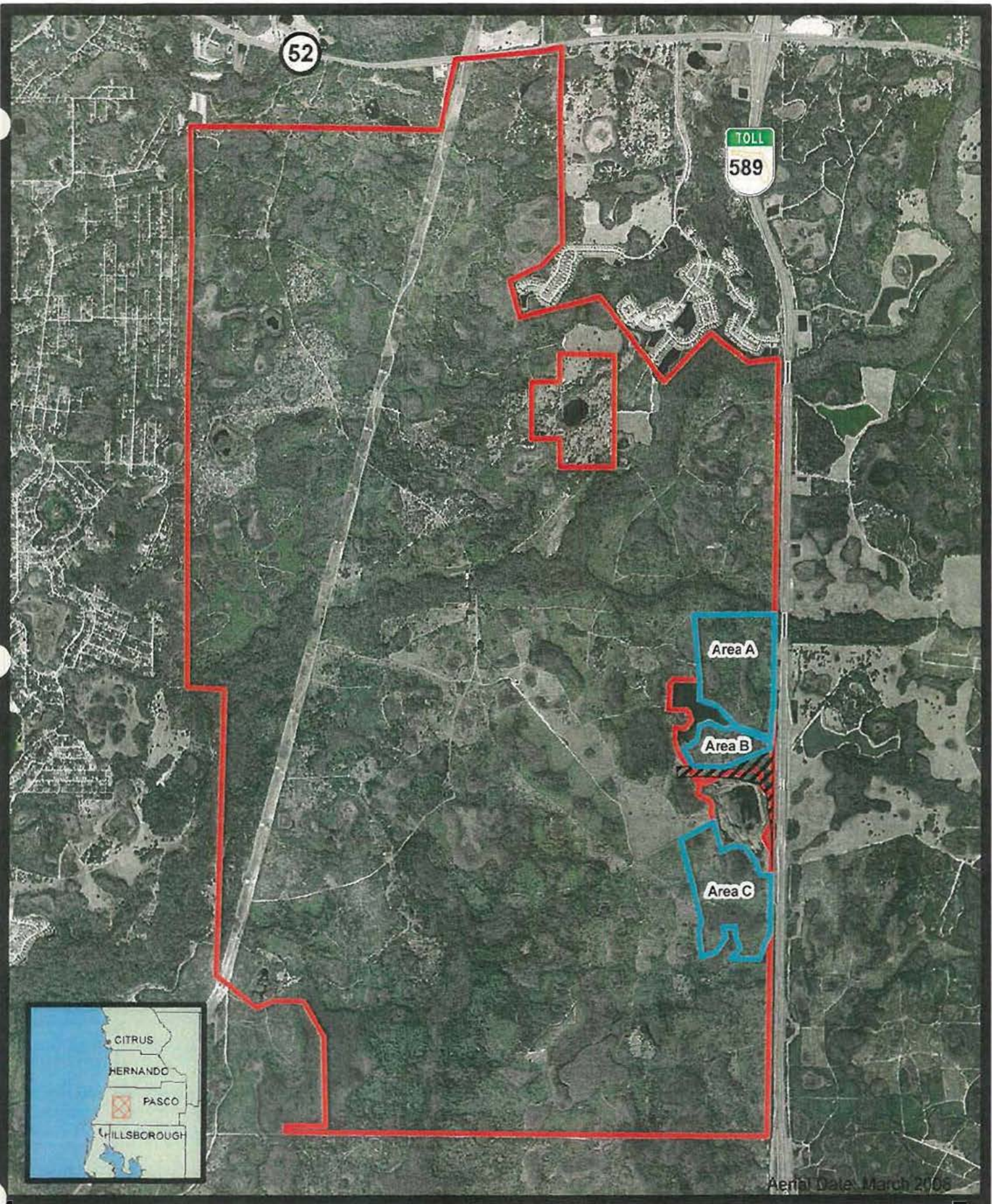


Figure 1.
Serenova Parcel

 Future Ridge Road Interchange
  Serenova Parcel
  Excess Mitigation Areas

0 0.3 0.6 1.2
 Miles



Source: SWFWMD, Florida's Turnpike Enterprise

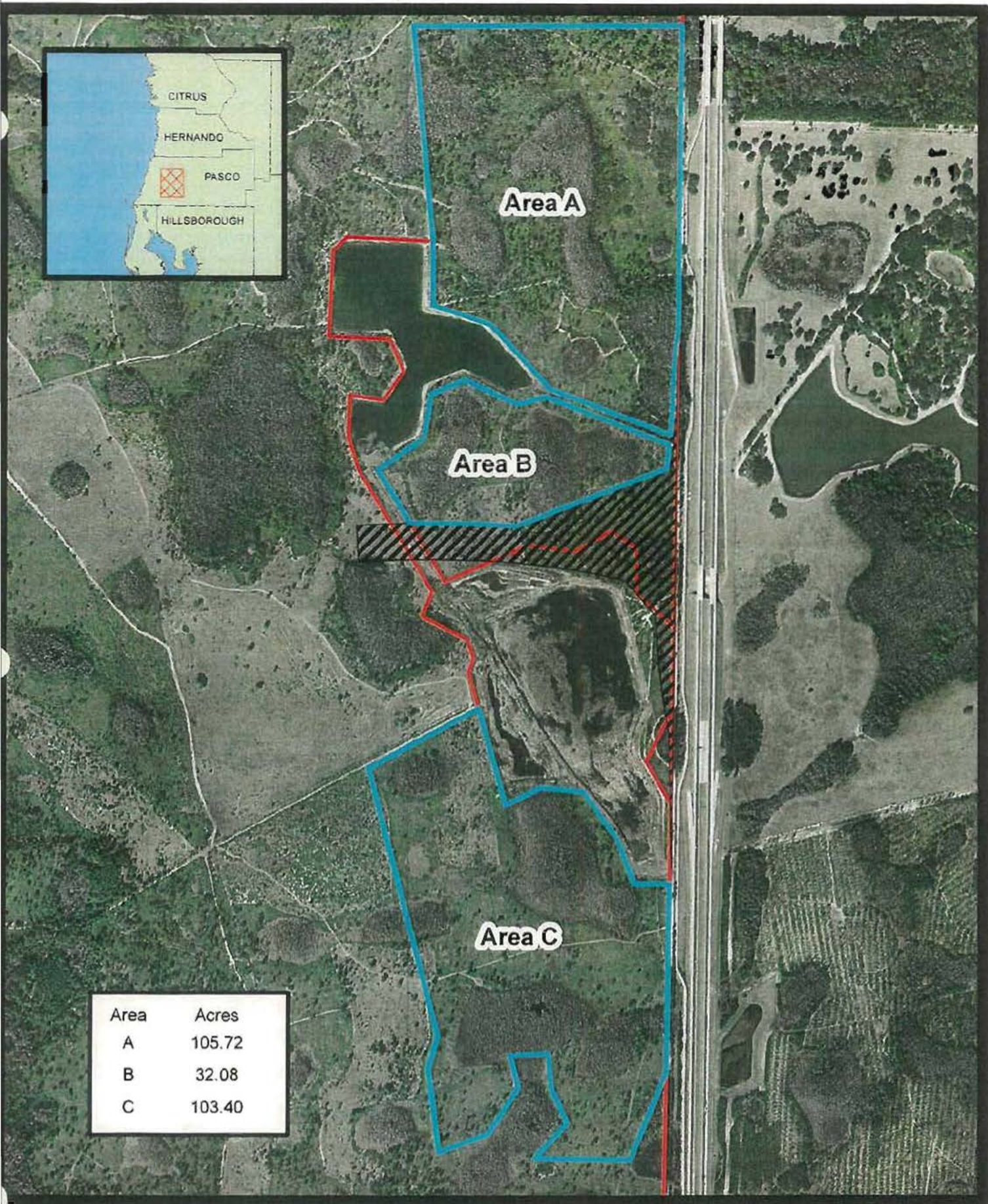


Figure 2.

Suncoast Parkway I Excess Mitigation Areas

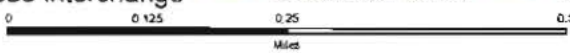
- Future Ridge Road Interchange
- Serenova Parcel
- Excess Mitigation Areas

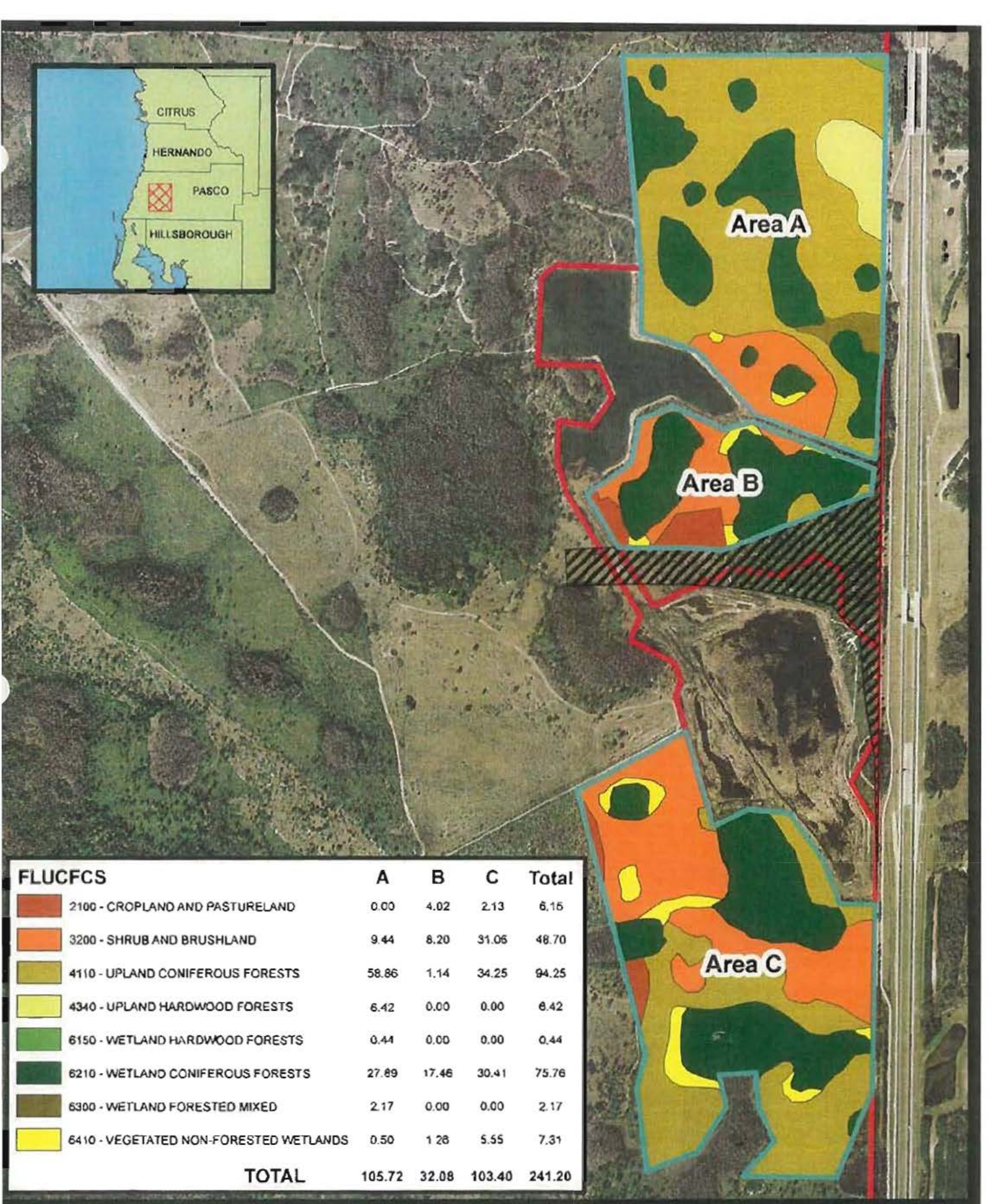


Area	Acres
A	105.72
B	32.08
C	103.40



Source: SWFWMD, Florida's Turnpike Enterprise





FLUCFCS	A	B	C	Total
2100 - CROPLAND AND PASTURELAND	0.00	4.02	2.13	6.16
3200 - SHRUB AND BRUSHLAND	9.44	8.20	31.06	48.70
4110 - UPLAND CONIFEROUS FORESTS	58.86	1.14	34.25	94.25
4340 - UPLAND HARDWOOD FORESTS	6.42	0.00	0.00	6.42
6150 - WETLAND HARDWOOD FORESTS	0.44	0.00	0.00	0.44
6210 - WETLAND CONIFEROUS FORESTS	27.89	17.46	30.41	75.76
6300 - WETLAND FORESTED MIXED	2.17	0.00	0.00	2.17
6410 - VEGETATED NON-FORESTED WETLANDS	0.50	1.28	5.55	7.31
TOTAL	105.72	32.08	103.40	241.20

Figure 3.
Suncoast Parkway I Excess Mitigation Areas

 Future Ridge Road Interchange
  Serenova Parcel
  Excess Mitigation Areas



Source: SWFWMD, Florida's Turnpike Enterprise

TABLE THREE: Ridge Road Interchange

PROJECT OFF-SITE MITIGATION SUMMARY

MITIGATION AREA ID	CREATION		RESTORATION		ENHANCEMENT		WETLAND PRESERVE		UPLAND PRESERVE		OTHER	
	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TYPE	AREA	TYPE	AREA	TARGET TYPE
A, B, C							0.44	6150				
A, B, C							75.76	6210				
A, B, C							2.17	6300				
A, B, C							7.31	6410				
A, B, C									6.15	2100		
A, B, C									48.70	3200		
A, B, C									94.25	4110		
A, B, C									6.42	4340		
PROJECT TOTALS	0		0		0		85.68		155.52		0	

COMMENTS: Tracts A, B and C are individual tracts that compose the 241.2 acre Serenova Mitigation Site.

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

NOTE: Multiple entries per cell not allowed

Table 3 provides the specific scoring by indicator, condition (with project and current condition) and the difference between the conditions (mitigation delta) for each land use. The table includes the preservation adjustment factor which results in an adjusted mitigation delta. Time lag and risk factors, if applicable, are documented in the table resulting in the final Functional Gain of mitigation associated with each land use and for the overall acreage. In general, Turnpike approached the determination of mitigation functional units very conservatively. SWFWMD has developed a long-term management plan for the Serenova parcel, which is the basis for the “with preservation” increased value of some habitat types. For the most part, Turnpike did not assign a benefit to the preservation of the available acreage on Serenova for the Location and Landscape Support or Water Environment categories, although significant benefits to these categories occurred when Turnpike purchased the parcel and removed the cattle operation and approved Development of Regional Impact in the late 1990s. Benefits, if appropriate, were limited to the Community Structure based on the long-term preservation and management of the parcel by SWFWMD. The completed UMAM evaluation forms for the 241.2 acre Serenova Mitigation site are attached at the end of this document as Appendix A. The following is a summary of the Serenova UMAM process and results.

Cropland and Pastureland (FLUCFCS 210) and Shrub and Brushland (FLUCFCS 320) typically have non-native vegetative components associated with these land uses. Both have a bahia grass (*Paspalum notatum*) component as they have been improved for cattle grazing. While these land uses will benefit from the long-term maintenance and preservation of the overall Serenova parcel by SWFWMD, no Relative Functional Gain was assigned for their preservation. Turnpike took this conservative approach to eliminate potential restoration success issues.

Pine Flatwoods (FLUCFCS 411) are typically comprised of native vegetative communities in suitable densities of individual canopy, mid-story and ground-cover species. The Pine Flatwoods communities within the 241.2 acre Serenova mitigation site are in relatively good ecological health with appropriate vegetative species composition. The Serenova Pine Flatwoods can benefit from a regular long-term cycle of prescribed burns to reestablish more natural densities of specific vegetative species. Therefore, the with preservation condition resulted in a minor increased score (+1 out of 20) over the current condition with a preservation adjustment factor of 0.8, as 0.1 point was deducted due to specific management requirements (prescribed burns or mechanical management) and 0.1 point was deducted since the habitat is not regionally scarce. Realizing that the prescribed burn management plan is being implemented by SWFWMD, and that repeated burn cycles are the key to restoration, a time-lag factor of 5 years (1.14) was applied. No risk factor was assigned as the site has a conservation easement and management plan associated with it. The 94.25 acres of Pine Flatwoods within the Serenova mitigation site have a Relative Functional Gain of 0.035 “with preservation” resulting in an overall Functional Gain of 3.31 units.

Upland Hardwood Forests (FLUCFCS 434) are typically forests comprised of native vegetative communities. The Upland Hardwood Forest communities within the 241.2 acre Serenova mitigation site are in relatively good ecological health, however, reduction in fire frequency has resulted in changes to the micro-climate, shifting the historical xeric oak community to a successional community comprised of overgrown scrub oaks (such as sand live oak – *Quercus geminata*) and dense saw palmetto (*Serenoa repens*). The Serenova Upland Hardwood Forest communities can benefit from a regular long-term cycle of prescribed burns to reestablish more natural densities of specific vegetative species. Therefore, the with preservation condition resulted in a minor increased score (+1 out of 20) over the current condition with a preservation

**Table 3
Serenova Mitigation Site (241.2 Acres) - UMAM Scores**

FLUCFCS	Acreage	Current or W/O Preservation				With Preservation				Delta	Pres. Adj.	Adj. Mit. Delta	Time Lag	Risk Factor	RFG	Functional Gain of Mitigation
		Location	Water	Com.	Score	Location	Water	Com.	Score							
210	6.15	4	NA	4	0.400	4	NA	4	0.400	0.000	0.7	0.000	1.25	1.25	0.000	0.00
320	48.70	5	NA	6	0.550	5	NA	6	0.550	0.000	0.8	0.000	1.25	1.25	0.000	0.00
411	94.25	7	NA	6	0.650	7	NA	7	0.700	0.050	0.8	0.040	1.14	1	0.035	3.31
434	6.42	7	NA	6	0.650	7	NA	7	0.700	0.050	0.8	0.040	1.25	1.25	0.026	0.16
615	0.44	8	8	7	0.767	8	8	8	0.800	0.033	0.8	0.027	1.14	1	0.023	0.01
621	75.76	8	8	7	0.767	8	8	8	0.800	0.033	0.8	0.027	1.14	1	0.023	1.77
630	2.17	8	8	7	0.767	8	8	8	0.800	0.033	0.8	0.027	1.14	1	0.023	0.05
641	7.31	8	8	7	0.767	8	8	8	0.800	0.033	0.8	0.027	1.14	1	0.023	0.17
	241.2															5.48

Note: No value was determined for preserving Cropland and Pastureland (FLUCFCS 210) and Shrub and Brushland (FLUCFCS 320). No value was determined for location and landscape support or water environment in any habitat type. Community structure increased with preservation due to the management plan associated with the property.

adjustment factor of 0.8, as 0.1 point was deducted due to specific management requirements (prescribed burns or mechanical management) and 0.1 point was deducted since the habitat is not regionally scarce. Realizing that the prescribed burn management plan is being implemented by SWFWMD, and that repeated burn cycles are the key to restoration, a time-lag factor of 10 years (1.25) was applied. A risk factor of 1.25 was assigned as the site has a vulnerability of continuing on a successional trend towards a mesic hammock. There is no requirement for SWFWMD to manage or restore this land use in a particular fashion, so Turnpike applied this conservative risk factor. The 6.42 acres of Upland Hardwood Forests within the Serenova mitigation site have a Relative Functional Gain of 0.026 "with preservation" resulting in an overall Functional Gain of 0.16 units.

Wetland Hardwood Forests (FLUCFCS 615) are typically mixed assemblages of native wetland forested species. The Wetland Hardwood Forest community (red maple – *Acer rubrum*, laurel oak – *Quercus laurifolia*, water oak – *Quercus nigra*) within the 241.2 acre Serenova mitigation site is associated with the Five-Mile Creek floodplain. The Serenova Wetland Hardwood Forest can benefit from a regular long-term cycle of management to maintain the natural vegetative communities. Therefore, the with preservation condition resulted in a minor increased score (+1 out of 30) over the current condition with a preservation adjustment factor of 0.8, as 0.1 point was deducted due to specific management requirements (prescribed burns or mechanical management) and 0.1 point was deducted since the habitat is not regionally scarce. Realizing that the prescribed burn management plan is being implemented by SWFWMD, and that repeated burn cycles are the key to restoration of the ecotone, a time-lag factor of 5 years (1.14) was applied. No risk factor was assigned as the site has a conservation easement and management plan associated with it. The 0.44 acre of Wetland Hardwood Forest within the Serenova mitigation site has a Relative Functional Gain of 0.023 "with preservation" resulting in an overall Functional Gain of 0.01 units.

Cypress (FLUCFCS 621) systems are typically dominated by *Taxodium* species in either strand swamps or domes. The Cypress systems within the 241.2 acre Serenova mitigation site can benefit from a regular long-term cycle of management to maintain the natural vegetative communities. Therefore, the with preservation condition resulted in a minor increased score (+1 out of 30) over the current condition with a preservation adjustment factor of 0.8, as 0.1 point was deducted due to specific management requirements (prescribed burns or mechanical management) and 0.1 point was deducted since the habitat is not regionally scarce. Realizing that the prescribed burn management plan is being implemented by SWFWMD, and that repeated burn cycles are the key to restoration of the ecotone, a time-lag factor for 5 years (1.14) was applied. No risk factor was assigned as the site has a conservation easement and management plan associated with it. The 75.76 acres of Cypress systems within the Serenova mitigation site have a Relative Functional Gain of 0.023 "with preservation" resulting in an overall Functional Gain of 1.77 units.

Wetland Forested Mixed (FLUCFCS 630) communities are typically mixed assemblages comprised of native species such as bald cypress (*Taxodium distichum*), red maple, water oak, laurel oak, and swamp bay (*Persea palustris*). The wetland forested mixed communities within the 241.2 acre Serenova mitigation site can benefit from a regular long-term cycle of management to maintain the natural vegetative communities. Therefore, the with preservation condition resulted in a minor increased score (+1 out of 30) over the current condition with a preservation adjustment factor of 0.8, as 0.1 point was deducted due to specific management requirements (prescribed burns or mechanical management) and 0.1 point was deducted since

the habitat is not regionally scarce. Realizing that the prescribed burn management plan is being implemented by SWFWMD, and that repeated burn cycles are the key to restoration of the ecotone, a time-lag factor for 5 years (1.14) was applied. No risk factor was assigned as the site has a conservation easement and management plan associated with it. The 2.17 acres of Wetland Forested Mixed systems within the Serenova mitigation site have a Relative Functional Gain of 0.023 “with preservation” resulting in an overall Functional Gain of 0.05 units.

Herbaceous Marsh (FLUCFCS 641) communities are typically mixed assemblages comprised of native species such as duck potato (*Sagittaria lancifolia*), pickerelweed (*Pontedaria cordata*) and maidencane (*Panicum hemitomon*). The Herbaceous Marsh communities within the 241.2 acre Serenova mitigation site can benefit from a regular long-term cycle of management to maintain the natural vegetative communities. Therefore, the with preservation condition resulted in a minor increased score (+1 out of 30) over the current condition with a preservation adjustment factor of 0.8, as 0.1 point was deducted due to specific management requirements (prescribed burns or mechanical management) and 0.1 point was deducted since the habitat is not regionally scarce. Realizing that the prescribed burn management plan is being implemented by SWFWMD, and that repeated burn cycles are the key to restoration of the ecotone, a time-lag factor of 5 years (1.14) was applied. No risk factor was assigned as the site has a conservation easement and management plan associated with it. The 7.31 acres of Herbaceous Marsh systems within the Serenova mitigation site have a Relative Functional Gain of 0.023 “with preservation” resulting in an overall Functional Gain of 0.17 units.

Based on the descriptions and UMAM evaluations discussed above, preservation of the habitat within the 241.2 acre Serenova mitigation site provides 5.48 units of Functional Gain. The 5.48 units provide partial mitigation for the 6.55 units of Functional Loss associated with 11.82 acres of wetland impacts. Table III-2 (Revised) outlines the allocation of the 5.48 units of Functional Gain towards offsetting the Functional Loss of wetlands and acreages of the wetland impacts. As the table shows, 5.47 Functional Loss units are mitigated for by the 241.2 acre Serenova mitigation site; which is 0.01 units less than the 5.48 Functional Gain units. The 5.47 units mitigated for, represent 9.49 acres of wetland impacts. Based on the calculations, that leaves 1.08 Functional Loss units that still require mitigation. The 1.08 Functional Loss units correlate to 2.33 acres of wetland impacts that have not been mitigated for by the preservation of the 241.2 acre Serenova mitigation site. Therefore, the preservation site does not, by itself, completely offset the 11.82 acres of wetland impacts associated with this project.

Option 3 - Chapter 373.4137 Florida Statutes

The remaining 1.08 Functional Loss units will be mitigated under the Chapter 373.4137 Florida Statutes program. The 1.08 Functional Loss units equate to 2.33 acres of wetland impacts as depicted in Table III-2 (Revised). The Fiscal Year 2010/2011 cost per acre of wetland impact is \$102,959, which results in Turnpike contributing \$239,894.50 to SWFWMD under the Chapter 373.4137 Florida Statutes program.

Summary

The 11.82 acres of wetland impacts are offset by a combination of land preservation and payment of \$239, 894.50 to SWFWMD under Chapter 373.4137 Florida Statutes. The

Table III-2 (Revised)
Wetland Impacts/Proposed Wetland Mitigation - UMAM Determination of Functional Gain

Wetland Impacts (Functional Loss)					241.2 Acre Serenova Mitigation Area				Chapter 373.4137 Mitigation (Functional Gain)	
					Functional Gain Determinations		Wetland Impacts Off- set by Mitigation Site			
Wetland Number	FLUCFCS	Proposed Impact Acreage	UMAM Scores*	Functional Loss Units**	Functional Gain Units***	Functional Units still Needed	Wetland Acreage Mitigated	Functional Units Mitigated	Wetland Impact Acreages Off-set by Mitigation****	Wetland Impact Functional Units off- set by Mitigation
1	621	3.06	0.57	1.74	5.48	1.07	3.06	1.74		
2	630	0.69	0.47	0.32			0.09	0.04	0.60	0.28
2a	641	0.03	0.27	0.01			0.00	0.00	0.03	0.01
3	621	3.91	0.47	1.84			2.28	1.07	1.63	0.77
3a	641	0.07	0.27	0.02			0.00	0.00	0.07	0.02
4	630	0.54	0.60	0.32			0.54	0.32		
5	630	1.28	0.60	0.77			1.28	0.77		
6	641	0.00	N/A	N/A			0.00	N/A		
7	621	0.00	N/A	N/A			0.00	N/A		
8	641	0.00	N/A	N/A			0.00	N/A		
9	621	1.32	0.77	1.02			1.32	1.02		
10	641	0.35	0.53	0.19			0.35	0.19		
11	641	0.05	0.53	0.03			0.05	0.03		
12	641	0.15	0.50	0.08			0.15	0.08		
13	641	0.22	0.53	0.12			0.22	0.12		
14	742	0.15	0.57	0.09	0.15	0.09				
TOTAL		11.82		6.55			9.49	5.47	2.33	1.08

* UMAM scores based on May 21, 2009 field evaluation.

**Functional Loss Units are calculated by multiplying the UMAM score by the Proposed Impact Acreage for each wetland.

*** See UMAM Mitigation sheets and Table III-3 for habitat values. Average UMAM Score or RFG equals 0.02 (i.e. 5.47 units ÷ 241.2 acres = 0.02)

**** Based on 2.33 acres of wetland impacts that are not mitigated for; \$239,894.50 is needed under Chapter 373.4137 F. S. mitigation

Turnpike was very conservative in the determination of UMAM values for the preservation property. Additional value or lift was not assigned to the Location and Landscape Support as well as the Water Environment categories when comparing "current" to "with preservation" conditions. Value or lift was only assigned to the Community Structure category for FLUCFCS codes 411, 434, 615, 621, 630 and 641 due to the Conservation Easement and SWFWMD's management plan for the Serenova property. The Turnpike feels that the conservative approach outlined in this submittal adequately mitigates for the Ridge Road Interchange with Suncoast Parkway (Phase II) proposed wetland impacts.

Appendix A

UMAM Sheets for 241.2 Acre Serenova Mitigation Site

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

Site/Project Name Ridge Road Interchange		Application Number		Assessment Area Name or Number Serenova Mitigation	
FLUCCs code 210		Further classification (optional) Cropland and Pastureland		Impact or Mitigation Site? Mitigation	Assessment Area Size 6.15
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (Class) III		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) USFWS - Aquatic Resource of National Importance		
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Improved pature area cleared from historical pine flatwoods. Planted with bahia grass and colonized by blue maidencane, maidencane, St. Johns wort, long leaf pine, slash pine and wax myrtle. Pockets of isolated marshes interspersed.					
Significant nearby features Part of excess mitigation associated with Serenova parcel. Borrow ponds in vicinity. Surrounded by pine flatwoods shrub/brushland and cypress strands/domes.			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, minimal wildlife habitat			Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) eastern indigo snake - T low to medium use/potential; wading birds - E/T/SSC - medium use; gopher tortoise - T medium use/potential; Florida pine snake - SSC low to medium use/potential; gopher frog - SSC low to medium use/potential, Southeastern American Kestrel - T low to medium use/potential		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): wren, bob cat scat					
Additional relevant factors: Part of Serenova approved Development of Regional Impact (DRI) and cattle ranch. Adjacent to Suncoast Parkway Project 1, borrow pits and future Ridge Road Interchange.					
Assessment conducted by: Post/Gaines			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Serenova Mitigation
Impact or Mitigation Mitigation - 210 Cropland and Pastureland	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>4 4</p>	<p>Surrounded by pine flatwoods, shrub and brushland, and cypress in Serenova. Limited habitat connectivity. Proximal to Suncoast Parkway and future Ridge Road. Hydrology altered by significant borrow ponds in immediate vicinity. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management, but no know restoration plan. Remove approved DRI impacts and cattle impact.</p>
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>NA NA</p>	<p>Isolated wetland systems appear to have been impacted hydrologically by adjacent regional borrow pits. Removal of cattle and approved future development. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>4 4</p>	<p>Bahia grass and wax myrtle. Random recolonization by native species (saw palmetto, maidencane, bluestem, pine species). Removal of cattle and approved development impacts will allow for increased community structure and succession to native communities. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management but no known restoration plan.</p>

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.40 0.40

If preservation as mitigation,
Preservation adjustment factor = 0.7
Adjusted mitigation delta = 0.000

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.00

If mitigation
Time lag (t-factor) = 1.25
Risk factor = 1.25

For mitigation assessment areas
FG = delta/(t-factor x risk) x ac= 0.00

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

Site/Project Name Ridge Road Interchange		Application Number		Assessment Area Name or Number Serenova Mitigation	
FLUCCs code 320		Further classification (optional) Shrub and Brushland		Impact or Mitigation Site? Mitigation	Assessment Area Size 48.70
Basin/Watershed Name/Number Upper Coastal		Affected Waterbody (Class) III		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) USFWS - Aquatic Resource of National Importance	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Shrub and brushland altered from historical pine flatwoods. Succession back to flatwoods. Pockets of isolated marshes interspersed.					
Significant nearby features Part of excess mitigation associated with Serenova parcel. Borrow ponds in vicinity. Surrounded by pine flatwoods and cypress strands/domes.			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat			Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) eastern indigo snake - T low to medium use/potential; wading birds - E/T/SSC - medium use; gopher tortoise - T medium use/potential; Florida pine snake - SSC low to medium use/potential; gopher frog - SSC low to medium use/potential, Southeastern American Kestrel - T low to medium use/potential		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): white eyed vireo, white-tailed deer, towhee, bob cat scat, snags, woodpeckers					
Additional relevant factors: Part of Serenova approved Development of Regional Impact (DRI) and cattle ranch. Adjacent to Suncoast Parkway Project 1, borrow pits and future Ridge Road Interchange.					
Assessment conducted by: Post/Gaines			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Serenova Mitigation
Impact or Mitigation Mitigation - 320 Shrub and Brushland	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>Surrounded by pine flatwoods, improved pasture, and cypress in Serenova. Habitat connectivity. Proximal to Suncoast Parkway and future Ridge Road. Hydrology altered by significant borrow ponds in immediate vicinity. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management. Remove approved DRI impacts and cattle impact.</p> <p>w/o pres or current with</p> <p>5 5</p>
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>Removal of cattle and approved future development. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p> <p>w/o pres or current with</p> <p>NA NA</p>
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>Saw palmetto and wire grass with scattered bahia grass. Removal of cattle and approved development impacts will allow for increased community structure and succession to climax communities (pine flatwoods or xeric oak scrub). Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p> <p>w/o pres or current with</p> <p>6 6</p>

Score = sum of above scores/30 (if uplands, divide by 20)
current with
or w/o pres
0.55 0.55

If preservation as mitigation,
Preservation adjustment factor = 0.8
Adjusted mitigation delta = 0.00

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.00

If mitigation
Time lag (t-factor) = 1.25
Risk factor = 1.25

For mitigation assessment areas
FG = delta/(t-factor x risk) x ac= 0.00

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

Site/Project Name Ridge Road Interchange		Application Number		Assessment Area Name or Number Serenova Mitigation	
FLUCCs code 411		Further classification (optional) Pine Flatwoods		Impact or Mitigation Site? Mitigation	
Assessment Area Size 94.25					
Basin/Watershed Name/Number Upper Coastal		Affected Waterbody (Class) III		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) USFWS - Aquatic Resource of National Importance	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Pine flatwoods in relatively good ecological health. Needs prescribed burn.					
Significant nearby features Part of excess mitigation associated with Serenova parcel. Borrow ponds in vicinity. Surrounded by cypress strands/domes.			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat			Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) eastern indigo snake - T low to medium use/potential; gopher tortoise - T medium use/potential; Florida pine snake - SSC low to medium use/potential; gopher frog - SSC low to medium use/potential, Southeastern American Kestrel - T low to medium use/potential		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): white eyed vireo, white-tailed deer, towhee, bob cat scat, snags, woodpeckers					
Additional relevant factors: Part of Serenova approved Development of Regional Impact (DRI) and cattle ranch. Adjacent to Suncoast Parkway Project 1, borrow pits and future Ridge Road Interchange.					
Assessment conducted by: Post/Gaines			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Serenova Mitigation
Impact or Mitigation Mitigation - 411 Pine Flatwoods	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	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	Surrounded by shrub and brushland, and cypress in Serenova. Habitat connectivity. Proximal to Suncoast Parkway and future Ridge Road. Hydrology altered by significant borrow ponds in immediate vicinity. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management. Remove approved DRI impacts and cattle impact.
w/o pres or current	with
7	7
.500(6)(b)Water Environment (n/a for uplands)	Removal of cattle and approved future development. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.
w/o pres or current	with
NA	NA
.500(6)(c)Community structure	Long-leaf pine, saw palmetto and wire grass. Snags present. Removal of cattle and approved development impacts will allow for maintenance of community structure. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.
1. Vegetation and/or 2. Benthic Community	
w/o pres or current	with
6	7

Score = sum of above scores/30 (if uplands, divide by 20)	
current	
or w/o pres	
with	
0.65	0.70

If preservation as mitigation,
Preservation adjustment factor = 0.8
Adjusted mitigation delta = 0.04

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.05

If mitigation
Time lag (t-factor) = 1.14
Risk factor = 1

For mitigation assessment areas
FG = delta/(t-factor x risk) x ac= 3.31

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

Site/Project Name Ridge Road Interchange		Application Number	Assessment Area Name or Number Serenova Mitigation	
FLUCCs code 434	Further classification (optional) Upland Hardwood Forest		Impact or Mitigation Site? Mitigation	Assessment Area Size 6.42
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (Class) III	Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) USFWS - Aquatic Resource of National Importance		
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Connected to Five-Mile Creek and ultimately Pithlachascootee River which discharges to the Gulf of Mexico				
Assessment area description Succession from scrubby flatwoods. Needs prescribed burn.				
Significant nearby features Part of excess mitigation associated with Serenova parcel. Borrow ponds in vicinity. Surrounded by pine flatwoods and cypress strands/domes.		Uniqueness (considering the relative rarity in relation to the regional landscape.) relatively common		
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) eastern indigo snake - T low to medium use/potential; gopher tortoise T medium use/potential; Florida pine snake - SSC low to medium use/potential; gopher frog - SSC low to medium use/potential, Southeastern American Kestrel - T low to medium use/potential		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): white eyed vireo, white-tailed deer, towhee, bob cat scat, snags, woodpeckers				
Additional relevant factors: Part of Serenova approved Development of Regional Impact (DRI) and cattle ranch. Adjacent to Suncoast Parkway Project 1, borrow pits and future Ridge Road Interchange.				
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Serenova Mitigation
Impact or Mitigation Mitigation - 434 Upland Hardwood Forest	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	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 w/o pres or current with 7 7	Surrounded by pine flatwoods and cypress in Serenova. Habitat connectivity. Proximal to Suncoast Parkway and future Ridge Road. Hydrology altered by significant borrow ponds in immediate vicinity. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management. Remove approved DRI impacts and cattle impact.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with NA NA	Removal of cattle and approved future development. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 7	Scrub oak, sand live oak, long-leaf pine, saw palmetto and wire grass. Removal of cattle and approved development impacts will allow for maintenance of community structure. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.65 0.70

If preservation as mitigation,
Preservation adjustment factor = 0.8
Adjusted mitigation delta = 0.04

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.05

If mitigation
Time lag (t-factor) = 1.25
Risk factor = 1.25

For mitigation assessment areas
FG = delta/(t-factor x risk) x ac= 0.16

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

Site/Project Name Ridge Road Interchange		Application Number	Assessment Area Name or Number Serenova Mitigation
FLUCCs code 615	Further classification (optional) Wetland Hardwood Forest		Impact or Mitigation Site? Mitigation
Assessment Area Size 0.44			
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (Class) III	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) USFWS - Aquatic Resource of National Importance	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Connected to Five-Mile Creek connected to Pithlachascootee River which discharges to the Gulf of Mexico			
Assessment area description Bottomland hardwood stream swamp (Five Mile Creek)			
Significant nearby features Part of excess mitigation associated with Serenova parcel. Borrow ponds in vicinity. Surrounded by pine flatwoods and cypress strands/domes.		Uniqueness (considering the relative rarity in relation to the regional landscape.) common	
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use NA	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) eastern indigo snake - T low to medium use/potential; wading birds - E/T/SSC - medium use;	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): white eyed vireo, white-tailed deer, towhee, bob cat scat, snags, woodpeckers			
Additional relevant factors: Part of Serenova approved Development of Regional Impact (DRI) and cattle ranch. Adjacent to Suncoast Parkway Project 1, borrow pits and future Ridge Road Interchange.			
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009	

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Serenova Mitigation
Impact or Mitigation Mitigation -615 Wetland Hardwood Forest	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	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 w/o pres or current 8 with 8	Surrounded by shrub and brushland, and cypress in Serenova. Habitat connectivity. Proximal to Suncoast Parkway and future Ridge Road. Hydrology altered by significant borrow ponds in immediate vicinity. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management. Remove approved DRI impacts and cattle impact.
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current 8 with 8	Removal of cattle and approved future development. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 7 with 8	Scrub oak, sand live oak, long-leaf pine, saw palmetto and wire grass. Removal of cattle and approved development impacts will allow for maintenance of community structure. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.

Score = sum of above scores/30 (if uplands, divide by 20)

current	with
0.77	0.80

If preservation as mitigation,

Preservation adjustment factor = 0.8
Adjusted mitigation delta = 0.027

For impact assessment areas

FL = delta x acres =

Delta = [with-current]

0.03

If mitigation

Time lag (t-factor) = 1.14
Risk factor = 1

For mitigation assessment areas

FG = delta/(t-factor x risk) x ac= 0.01

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

Site/Project Name Ridge Road Interchange		Application Number		Assessment Area Name or Number Serenova Mitigation	
FLUCCs code 621		Further classification (optional) Cypress		Impact or Mitigation Site? Mitigation	
Assessment Area Size 75.76					
Basin/Watershed Name/Number Upper Coastal		Affected Waterbody (Class) III		Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) USFWS - Aquatic Resource of National Importance	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Connected to Five-Mile Creek connected to Pithlachascootee River which discharges to the Gulf of Mexico					
Assessment area description Cypress dome and strand swamp					
Significant nearby features Part of excess mitigation associated with Serenova parcel. Borrow ponds in vicinity. Surrounded by pine flatwoods and cypress strands/domes.			Uniqueness (considering the relative rarity in relation to the regional landscape.) common		
Functions water quality, flood storage/attenuation, wildlife habitat			Mitigation for previous permit/other historic use NA		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) eastern indigo snake - T low to medium use/potential; wading birds - E/T/SSC - medium use;		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): white eyed vireo, white-tailed deer, towhee, bob cat scat, snags, woodpeckers, cricket frog, green tree frog					
Additional relevant factors: Part of Serenova approved Development of Regional Impact (DRI) and cattle ranch. Adjacent to Suncoast Parkway Project 1, borrow pits and future Ridge Road Interchange.					
Assessment conducted by: Post/Gaines			Assessment date(s): 5/21/2009		

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Serenova Mitigation
Impact or Mitigation Mitigation - 621 Cypress	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>8 8</p>	<p>Surrounded by pine flatwoods in Serenova. Habitat connectivity. Proximal to Suncoast Parkway and future Ridge Road. Hydrology altered by significant borrow ponds in immediate vicinity. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management. Remove approved DRI impacts and cattle impact.</p>
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>8 8</p>	<p>Removal of cattle and approved future development. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>7 8</p>	<p>Cypress, dahoon holly, maple, swamp bay, lyonia, etc. Removal of cattle and approved development impacts will allow for maintenance of community structure. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.77 0.80

If preservation as mitigation,
Preservation adjustment factor = 0.8
Adjusted mitigation delta = 0.027

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.03

If mitigation
Time lag (t-factor) = 1.14
Risk factor = 1

For mitigation assessment areas
FG = delta/(t-factor x risk) x ac= 1.77

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

Site/Project Name Ridge Road Interchange		Application Number	Assessment Area Name or Number Serenova Mitigation
FLUCCs code 630	Further classification (optional) Wetland Forested Mixed		Impact or Mitigation Site? Mitigation
Assessment Area Size 2.17			
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (Class) III	Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) USFWS - Aquatic Resource of National Importance	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Connected to Five-Mile Creek connected to Pithlachascootee River which discharges to the Gulf of Mexico			
Assessment area description Wetland Forested Mixed swamp			
Significant nearby features Part of excess mitigation associated with Serenova parcel. Borrow ponds in vicinity. Surrounded by pine flatwoods and cypress strands/domes.		Uniqueness (considering the relative rarity in relation to the regional landscape.) common	
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use NA	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) eastern indigo snake - T low to medium use/potential; wading birds - E/T/SSC - medium use;	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): white eyed vireo, white-tailed deer, towhee, bob cat scat, snags, woodpeckers, green tree frog			
Additional relevant factors: Part of Serenova approved Development of Regional Impact (DRI) and cattle ranch. Adjacent to Suncoast Parkway Project 1, borrow pits and future Ridge Road Interchange.			
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009	

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Serenova Mitigation
Impact or Mitigation Mitigation - 630 Wetland Forested Mixed	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	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	Surrounded by pine flatwoods in Serenova. Habitat connectivity. Proximal to Suncoast Parkway and future Ridge Road. Hydrology altered by significant borrow ponds in immediate vicinity. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management. Remove approved DRI impacts and cattle impact.				
<table border="1"> <tr> <td>w/o pres or current</td> <td>with</td> </tr> <tr> <td>8</td> <td>8</td> </tr> </table>	w/o pres or current	with	8	8	
w/o pres or current	with				
8	8				
.500(6)(b)Water Environment (n/a for uplands)	Removal of cattle and approved future development. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.				
<table border="1"> <tr> <td>w/o pres or current</td> <td>with</td> </tr> <tr> <td>8</td> <td>8</td> </tr> </table>	w/o pres or current	with	8	8	
w/o pres or current	with				
8	8				
.500(6)(c)Community structure	Cypress, dahoon holly, maple, swamp bay, lyonia, et.c. Removal of cattle and approved development impacts will allow for maintenance of community structure. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.				
<table border="1"> <tr> <td>w/o pres or current</td> <td>with</td> </tr> <tr> <td>7</td> <td>8</td> </tr> </table>	w/o pres or current	with	7	8	
w/o pres or current	with				
7	8				

Score = sum of above scores/30 (if uplands, divide by 20)				
<table border="1"> <tr> <td>current or w/o pres</td> <td>with</td> </tr> <tr> <td>0.77</td> <td>0.80</td> </tr> </table>	current or w/o pres	with	0.77	0.80
current or w/o pres	with			
0.77	0.80			

If preservation as mitigation,
Preservation adjustment factor = 0.8
Adjusted mitigation delta = 0.027

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.03

If mitigation
Time lag (t-factor) = 1.14
Risk factor = 1

For mitigation assessment areas
FG = delta/(t-factor x risk) x ac= 0.05

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

Site/Project Name Ridge Road Interchange		Application Number	Assessment Area Name or Number Serenova Mitigation
FLUCCs code 641	Further classification (optional) Herbaceous Marsh		Impact or Mitigation Site? Mitigation Assessment Area Size 7.31
Basin/Watershed Name/Number Upper Coastal	Affected Waterbody (Class) III	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) USFWS - Aquatic Resource of National Importance	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Connected to Five-Mile Creek connected to Pithlachascootee River which discharges to the Gulf of Mexico			
Assessment area description Herbaceous Marsh			
Significant nearby features Part of excess mitigation associated with Serenova parcel. Borrow ponds in vicinity. Surrounded by pine flatwoods and cypress strands/domes.		Uniqueness (considering the relative rarity in relation to the regional landscape.) common	
Functions water quality, flood storage/attenuation, wildlife habitat		Mitigation for previous permit/other historic use NA	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) small/medium mammals, snakes, turtles, birds		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Eastern Indigo Snake - T low to medium use/potential; wading birds - E/T/SSC - medium use; gopher frog - SSC low to medium use/potential	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): white eyed vireo, white-tailed deer, towhee, bob cat scat, snags, woodpeckers			
Additional relevant factors: Part of Serenova approved Development of Regional Impact (DRI) and cattle ranch. Adjacent to Suncoast Parkway Project 1, borrow pits and future Ridge Road Interchange.			
Assessment conducted by: Post/Gaines		Assessment date(s): 5/21/2009	

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

Site/Project Name Ridge Road Interchange	Application Number	Assessment Area Name or Number Serenova Mitigation
Impact or Mitigation Mitigation - 641 Herbaceous Marsh	Assessment conducted by: Post/Gaines	Assessment date: 5/21/2009

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

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

<p>.500(6)(a) Location and Landscape Support</p> <p>w/o pres or current with</p> <p>8 8</p>	<p>Surrounded by pine flatwoods in Serenova. Habitat connectivity. Proximal to Suncoast Parkway and future Ridge Road. Hydrology altered by significant borrow ponds in immediate vicinity. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management. Remove approved DRI impacts and cattle impact.</p>
<p>.500(6)(b)Water Environment (n/a for uplands)</p> <p>w/o pres or current with</p> <p>8 8</p>	<p>Removal of cattle and approved future development. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>
<p>.500(6)(c)Community structure</p> <p>1. Vegetation and/or 2. Benthic Community</p> <p>w/o pres or current with</p> <p>7 8</p>	<p>Hypericum, Axonopus, maidencane, Andropogon, Amphicarpum, etc. Removal of cattle and approved development impacts will allow for maintenance of community structure. Add to Serenova tract of SWFWMD's Starkey Wilderness Park with long-term maintenance/management.</p>

Score = sum of above scores/30 (if uplands, divide by 20)
current or w/o pres with
0.77 0.80

If preservation as mitigation,
Preservation adjustment factor = 0.8
Adjusted mitigation delta = 0.027

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.03

If mitigation
Time lag (t-factor) = 1.14
Risk factor = 1

For mitigation assessment areas
FG = delta/(t-factor x risk) x ac= 0.17



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General Consultant
Florida's Turnpike Enterprise
Florida Department of Transportation



RECORD OF PHONE CONVERSATION

Date: November 18, 2010 Time: 8:30 AM

Participants: David Sauskojus, SWFWMD; John Post, Turnpike Enterprise

Topic: FPID NO. 258958-1-52-01 Suncoast Parkway 1 / Ridge Road Interchange
Southwest Florida Water Management District ERP Permit Application
43018792.005/634229

SUMMARY OF CONVERSATION

I called David Sauskojus this morning to verify that the information the Turnpike Enterprise has submitted, as part of the above referenced permit application, is sufficient; or to determine if there are any outstanding issues on the Ridge Road Interchange portion of the permit application.

David agreed that there was only one question from him and none from Clay Black in the "Clarification of Received Information" letter dated August 19, 2010 that addressed the Turnpike's portion of the application. All other questions addressed issues with the information submitted as part of Pasco County's portion of the project. The one question that he asked, dealt with placement of erosion control adjacent to Wetland 2a. The construction adjacent to this wetland actually took place as part of the Suncoast Parkway 1 project when the northbound off-ramp was partially built in preparation for the future interchange project. Therefore, David agreed that this is not an issue.

David indicated that since the letter went out in August that he wanted to discuss with Clay Black and review the letter to assure that there were no other concerns. He asked that I put together this conversation record and send to him and Mr. Black and they would respond back verifying that there were no concerns or to let me know if there are some outstanding issues.

This is solely the author's interpretation of the phone conversation.

Submitted by: John Post

From: Dave Sauskojus [David.Sauskojus@swfwmd.state.fl.us]
 Sent: Monday, November 22, 2010 1:28 PM
 To: Post, John M.
 Subject: Clay Black; Albert A. Gagne; Monte Ritter
 RE: Ridge Road Interchange Conversation Record

Re our telecom, I have again reviewed the District's Clarification letter and can confirm that the only comment I had relative to the interchange pertained to erosion control adjacent to Wetland 2a. Additionally, Clay confirmed that he has no other issues with the interchange.

The telephone conversation record attached to your email appears to be correct as written.

From: Post, John M. [mailto:John.Post@dot.state.fl.us]

Sent: Thursday, November 18, 2010 1:14 PM

To: Dave Sauskojus; Clay Black

Subject: Ridge Road Interchange Conversation Record

Hi,

Based on our conversation this morning I put together the attached conversation record. Please review and let me know if it is an exact interpretation of our discussion.

If you did not have any questions regarding the interchange, I did not call you directly. However, if you could reply to validate that you do not have any issues with our proposal it would be helpful.

Probably the easiest way would be to send me one email indicating that neither of you have any issues left.

Thanks,

John M. Post Jr., PWS, PMP
EMO Program Manager

Home Mail Address:

Florida's Turnpike Enterprise Headquarters
John M. Post, Jr., EMO Department
P.O. Box 613069
Orlando, FL 32761

Overnight Mail Address:

Florida's Turnpike Enterprise Headquarters
John M. Post, Jr., EMO Department
P.O. Box 263, Bldg. 5315
Orlando, FL 32761

Phone: 407-264-3409

407-822-5821

Email: john.post@dot.state.fl.us

IMPORTANT NOTICE: All E-mail sent to or from this address are public record and archived. The Sc



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General Consultant
Florida's Turnpike Enterprise
Florida Department of Transportation



RECORD OF PHONE CONVERSATION

Date: November 18, 2010 Time: 7:30 AM

Participants: Mike Nowicki, USACE; John Post, Turnpike Enterprise

Topic: FPID NO. 258958-1-52-01 Suncoast Parkway 1 / Ridge Road Interchange
Department of the Army Permit Application SAJ-1998-2682 (IP-MN)

SUMMARY OF CONVERSATION

I called Mike Nowicki this morning to verify that the information the Turnpike Enterprise has submitted, as part of the above referenced permit application, is sufficient or to determine if there are any outstanding issues on the Ridge Road Interchange portion of the permit application.

Mike's position was that we had coordinated with him fully and submitted information that was already discussed in pre-application meetings and met his expectations. One area that he could not fully commit to was our proposal for wetland mitigation. He agreed that we had provided alternative mitigation plans and that he had, in previous meetings and phone discussions, indicated his support of one or more of the options presented in our application. He is aware that the Southwest Florida Water Management District (SWFWMD) has accepted certain aspects of the alternatives we presented and without further review he could not indicate whether he could support SWFWMD's choice of mitigation for the project. However, he did indicate that since we had offered several alternatives he felt comfortable the USACE could find a combination of attributes presented in the alternatives that would provide sufficient mitigation for the project.

This is solely the author's interpretation of the phone conversation.

Submitted by: John Post

email confirmation of Conversation Record_Mike Nowicki

From: Post, John M.
Sent: Thursday, November 18, 2010 1:29 PM
To: 'Nowicki, Michael F SAJ'
Subject: RE: Ridge Road Interchange Conversaton Record

Thanks Mike!

John

John M. Post Jr., PWS, PMP
EMO Program Manager

U. S. Mail Address:
Florida's Turnpike Enterprise Headquarters John M. Post, Jr., EMO Department
P. O. Box 613069 Ocoee, FL 34761

Overnight Mail Address:
Florida's Turnpike Enterprise Headquarters John M. Post, Jr., EMO Department
Mile Post 263, Bldg. 5315 Ocoee, FL 34761

Phone: 407-264-3409
Fax: 407-822-5821
E-mail john.post@dot.state.fl.us

-----Original Message-----

From: Nowicki, Michael F SAJ [mailto:Michael.F.Nowicki@usace.army.mil]
Sent: Thursday, November 18, 2010 12:51 PM
To: Post, John M.
Subject: RE: Ridge Road Interchange Conversaton Record

John:

Looks good to me as the memo does not really commit the COE to any particular mitigation option. I do not feel that the mitigation for the wetlands impacts associated with the Suncoast 1 interchange with the proposed Ridge Road Extension (RRE) is a major issue in the overall COE review of the RRE permit application. Major issues remain an acceptable alternatives analysis that allows the COE to make an independent analysis of alternatives and, if the alternatives analysis is adequate, then the issue of adequate mitigation for the total wetland impacts of the RRE (not including the interchange impacts) must be resolved.

Mike

-----Original Message-----

From: Post, John M. [mailto:John.Post@dot.state.fl.us]
Sent: Thursday, November 18, 2010 11:17 AM
To: Nowicki, Michael F SAJ
Subject: Ridge Road Interchange Conversaton Record

Mike,

Thanks for taking the time to discuss the Ridge Road Interchange project with me this morning. Attached is a summary of our conversation that I put together. Please review and either let me know that you agree or if you want to make revisions feel free to do so.

Thanks again,

John

John M. Post Jr., PWS, PMP

SECTION VIB

SUNCOAST PARKWAY ERP MODIFICATION APPLICATION AND PERMIT DESIGNATING THE LOCATION OF EXCESS MITIGATION

This section of the USACE application submittal includes an ERP application and final "Modification of Permit by Letter" for the original Suncoast Parkway Project 1, Mitigation permit that was issued on November 18, 1997. The original permit outlined the mitigation plan for the 206.84 acres of wetland impacts associated with the Suncoast Parkway Project 1. The File of Record for the Suncoast Parkway Project 1 showed that the mitigation plan exceeded what was required to offset the proposed wetland impacts, but did not designate the exact location of the excess mitigation area. This recent modification clarifies the original permit by designating the exact location and habitat types of the excess mitigation.

By issuance of this modification on August 23, 2010 it allowed the Turnpike to utilize this defined area as mitigation for future project(s). Therefore, an evaluation of the 241.2 acre excess mitigation area was completed for this interchange project. The area to be utilized as mitigation for the interchange was submitted to SWFWMD in response to a Request for Additional Information on May 14, 2010. This information is included in the previous Section VIA.



An Equal Opportunity Employer

Southwest Florida Water Management District

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Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
1-800-492-7862 (FL only)

Sarasota Service Office
6750 Fruitville Road
Sarasota, Florida 34240-9711
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

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- Maritza Rovira-Forino**
Hillsborough

David L. Moore
Executive Director
William S. Blenky
General Counsel

August 23, 2010

Thomas G. Percival, Jr.
FDOT Florida's Turnpike Enterprise
Post Office Box 613069
Ocoee, FL 34761

**Subject: Notice of Final Agency Action - Approval
Modification of Permit by Letter**

Project Name: FDOT - Suncoast Parkway Project 1, Mitigation
Permit No.: 43015724.001/636271
County: Pasco
Sec/Twp/Rge: 24,25,36/25S/17E
Letter Received: July 1, 2010
Expiration Date: August 23, 2015

References: Chapters 40D-4 and 40, Florida Administrative Code (F.A.C.)
Sections 373.4141 and 120.60, Florida Statutes (F.S.)

Dear Mr. Percival:

Your request to modify Environmental Resource Permit (ERP) No. 43015724.000 by letter has been approved.

1. This modification identifies excess wetland mitigation provided within ERP No. 43015724.000, entitled FDOT- Suncoast Parkway Mitigation. The excess mitigation, 241.20 acres of preserved land within what is known as the Serenova Parcel, consists of 149.37 acres of Native Uplands (FLUCCS 300/400), 6.15 acres of Agricultural uplands (FLUCCS 200), 78.37 acres of Forested Wetlands (FLUCCS 610/620/630), and 7.31 acres of Non-forested Wetlands (FLUCCS 640). This excess wetland habitat mitigation is available to offset appropriate wetland impacts related to future FDOT- Florida's Turnpike Enterprise projects that are located within the same drainage basin (Upper Coastal Areas). The location of this land and its habitat descriptions are identified in the attached Figures 1-3.
2. All other terms and conditions of ERP No. 43015724.000, dated November 18, 1997, entitled FDOT - Suncoast Parkway Mitigation, apply.

Plans and information you submitted to support your request to modify this permit will be kept on file.

Final approval is contingent upon no objection to the District's action being received by the District within the time frames described below.

RECEIVED
FLORIDA'S TURNPIKE
ENTERPRISE
2010 AUG 25 PM 3:32

You or any person whose substantial interests are affected by the District's action regarding a permit may request an administrative hearing in accordance with Sections 120.569 and 120.57, Florida Statutes, (F.S.), and Chapter 28-106, Florida Administrative Code, (F.A.C.), of the Uniform Rules of Procedure. A request for hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's action, or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no disputed facts, and (3) otherwise comply with Chapter 28-106, F.A.C. Copies of Sections 28-106.201 and 28-106.301, F.A.C. are enclosed for your reference. A request for hearing must be filed with (received by) the Agency Clerk of the District at the District's Brooksville address within 21 days of receipt of this notice. Receipt is deemed to be the fifth day after the date on which this notice is deposited in the United States mail. Failure to file a request for hearing within this time period shall constitute a waiver of any right you or such person may have to request a hearing under Sections 120.569 and 120.57, F.S. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding the District's action in this matter is not available prior to the filing of a request for hearing.

Enclosed is a "Noticing Packet" that provides information regarding the District Rule 40D-1.1010, F.A.C., which addresses the notification of persons whose substantial interests may be affected by the District's action in this matter. The packet contains guidelines on how to provide notice of the District's action, and a notice that you may use.

If you have questions regarding this letter modification, please contact David K. Sauskojus, at the Brooksville Service Office, extension 4370.

Sincerely,



Henry Robert Lue, P.E., Director
Brooksville Regulation Department

HRL:DKS:mef

Enclosure: Noticing Packet (42.00-039)
Sections 28-106.201 and 28-106.301, F.A.C.
Drawings

cc: File of Record 43015724.001/636271
John M. Post, Jr., PWS, PMP, FDOT Florida's Turnpike Enterprise ✓



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General Consultant
Florida's Turnpike Enterprise
Florida Department of Transportation



July 1, 2010

Henry Robert "Bobby" Lue
Director; Brooksville Regulation Department
Southwest Florida Water Management District
2379 Broad Street
Brooksville, FL 34604-6899

**Re: SWFWMD Permit #4315724.00
FDOT Florida's Turnpike Enterprise
FPID 258888-1- Suncoast Parkway Project 1, Mitigation
Pasco County, Florida
Environmental Resource Permit Modification Short Form**

Dear Mr. Lue:

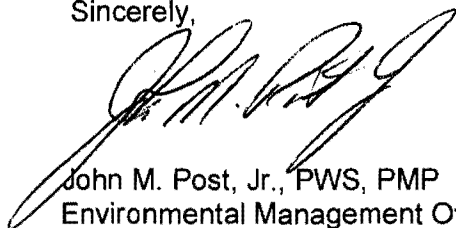
Please find enclosed five (5) copies of the Environmental Resource Permit (ERP) Modification Short Form along with supplemental information for the Suncoast Parkway Project 1, Mitigation ERP permit.

The submitted information includes the following:

- ERP Modification Short Form
- Modification request justification
- Figures

We have thoroughly reviewed the submittal to assure a complete packet. If any additional information or clarification is required, please do not hesitate to contact me at (407) 264-3409. We appreciate the assistance you and your staff have provided to us during the process of preparing this modification request. We look forward to working with your Department throughout the permitting process.

Sincerely,



John M. Post, Jr., PWS, PMP
Environmental Management Office, Program Manager

Enclosures

cc: Matt Lamb, PE – Turnpike



SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT (ERP) MODIFICATION SHORT FORM

SUBMIT FIVE COPIES OF THIS FORM AND OTHER RELATED INFORMATION TO ONE OF THE DISTRICT OFFICES LISTED BELOW. NO FEE REQUIRED. PLEASE PRINT OR TYPE ALL TEXT. To qualify for a modification using this modification short form, the permittee must submit sufficient information with this application so that a request for additional information is not required to verify compliance with the permit rules and threshold qualifications for modification, and a separate Statement of Completion and As-built is not required to verify compliance with the permit.

6/15/10
Date

Bartow Regulation 170 Century Blvd. Bartow, FL 33830-7700	Brooksville Regulation 2379 Broad St. Brooksville, FL 34604-6899	Tampa Regulation 7601 US Hwy 301 N Tampa, FL 33637-6759	Sarasota Regulation 6750 Fruitville Rd. Sarasota, FL 34240-9711
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Subject: Request for Modification of ERP No. 4315724 - 00 (rev #)

Project Name: FDOT - Suncoast Parkway Project 1, Mitigation

County/City: Pasco /

Total Acreage/Project Acreage: 10,601.78 /

Sec(s)/Twp(s)/Rge(s): 10,11,13-15,22-27,34-36 /25S /17E

To Whom It May Concern:

This is a request to modify the District approved ERP construction permit pursuant to Section 40D-4.331(2)(b) 1. - 6., Florida Administrative Code (F.A.C.). The requested modification does not: (1) expand or substantially alter the permit authorization (substantially alter means a change to the project that affects either the system design, construction or operation, which is reasonably expected to lead to substantially different water resource or environmental impacts and requires detailed permitting review and evaluation), (2) increase the authorized off site discharge, (3) impact the environmental features of the project, (4) decrease the required retention/detention, (5) decrease the required flood control elevations for roads or buildings, or (6) decrease pollution removal efficiency. Attached is documentation (plans, drawings, calculations, etc.) which addresses these requirements and supports the request for a modification. ~~The undersigned Engineer certifies that the engineering features of this surface water management system have been:~~

(check one) designed by me or under my responsible charge,
 reviewed by me or under my responsible charge;

~~and in my professional opinion, the system conforms with sound engineering principles and all applicable rules and specifications.~~

Signature of Owner/Permittee (Applicant) or Authorized Agent*

~~NOT APPLICABLE
 Engineer's Name FL Reg. No.~~

Thomas G. Percival, Jr. - FDOT, Florida's Turnpike Enterprise
 Owner/Permittee (Applicant) Company Name/Title (if applicable)

P.O. Box 613069, Ocoee, FL 34761
 Owner/Permittee (Applicant) Address, City, State Zip

(407) 532 - 3999
 Owner/Permittee (Applicant) Phone No.

John Post, PWS (407) 264 - 3409
 Contact Name (for owner) and Phone No.

FDOT, Florida's Turnpike Enterprise
 Operation & Maintenance (O&M) Entity

() -
 O&M Contact Name and Phone No.

~~Affix Seal~~

~~_____
 Engineer Signature Date~~

~~_____
 Engineer Company Name~~

~~_____
 Engineer Company Address, City, State Zip~~

~~() -
 Engineer Company Phone No.~~

*Attach a signed letter of authorization from the owner, except for corporate officers.

PERMIT MODIFICATION

SWFWMD ERP INDIVIDUAL CONSTRUCTION PERMIT No. 4315724.00

The Florida Department of Transportation, Turnpike Enterprise is requesting a modification to Environmental Resource Permit No. 4315724.00. The original permit, issued on November 18, 1997, outlined the mitigation plan for the 206.84 acres of wetland impacts associated with the Suncoast Parkway Project 1. This proposed modification does not:

- Substantially alter the permit authorization
- Increase the authorized off-site discharge
- Impact the environmental features of the project
- Decrease the required retention/detention
- Decrease the required flood control elevations for roads or buildings
- Decrease pollution removal efficiency

The reason for this permit modification request is for clarification purposes only. The File of Record for the project showed that the mitigation plan exceeded what was required to offset the proposed wetland impacts. This was clearly spelled out in the File of Record, but the required and excess acreage were never clarified in the permit document. Therefore, the amount of land utilized for the required mitigation along with the acreage and location of the remaining Serenova mitigation property are clarified in this modification request.

A total of 10,168 acres of land was purchased and deeded over to public ownership and management. The 10,168 acres are made up of two tracts of land called Anclote River Ranch (3,635 acres) and Serenova (6,533 acres):

- The Anclote River Ranch parcel is generally made up of approximately 71% uplands (2,570 acres) and 29% wetlands (1,065 acres). The upland areas can be broken into native forested habitat/rangeland and agriculture. The native upland habitat makes up approximately 36% of the total Anclote River Ranch parcel. Agriculture land makes up approximately 35% of the parcel. The wetland areas can be broken into forested and non-forested wetlands. The forested wetlands make up approximately 23% of the total Anclote River Ranch parcel. Non-forested wetlands make up approximately 6% of the parcel.
- The Serenova parcel is generally comprised of approximately 65% uplands (4,224 acres) and 35% wetlands (2309 acres). The location and configuration of the Serenova parcel are shown on Figure 1. The upland areas can be broken into native forested habitat/rangeland and agriculture. The native upland habitat makes up approximately 57% of the total Serenova parcel. Agriculture land makes up approximately 7% of the parcel. The wetland areas can be broken into forested and non-forested wetlands. The forested wetlands make up approximately 31% of the total Serenova parcel. Non-forested wetlands make up approximately 4% of the parcel. The remaining 1% of the parcel is made up of land with anthropogenic influences.

The portion of the mitigation area that was utilized to offset the 206.84 acres of wetland impacts represents 9,926.80 acres of the 10,168 acre total. This 9,926.80 acre area is made up of the entire Anclote River Ranch parcel and 6,291.80 acres of the Serenova parcel. Table 1 represents a breakdown of the mitigation categories within the utilized mitigation area.

TABLE 1
Utilized Mitigation for Suncoast Parkway 1 Wetland Impacts

Mitigation Category	Acreage	Ratio*	Wetland Impact Acreage Offset
Upland Preservation	6,638.9	20:1	331.9
Wetland Preservation	2,901.2	60:1	48.4
Wetland Enhancement Area	386.7	20:1	19.3
TOTALS	9926.8		399.6**

* 20:1 or 60:1 – 20 or 60 acres of this mitigation type offset 1 acre of wetland impact
 ** Equals total mitigation required for Suncoast Parkway 1 direct and secondary Impacts

Based on Table 1, a total of 241.2 acres of land within the Serenova parcel were not utilized as mitigation in the original permit. The 241.2 remaining acres are adjacent to the Suncoast Parkway along the eastern proximity of the original Serenova parcel. Table 2 displays the composition of the land within the Serenova parcel that was not utilized to mitigate for the 206.84 acres of wetland impacts. The locations of the sites are shown on the aerial photographs (Figure 1 and 2) as Areas A, B and C. The areas are further portrayed on Figure 3 by superimposing the location of the sites on a Southwest Florida Water Management District 2008 Florida Land Use Cover and Forms Classification System (FLUCFCS) map. Level III data are utilized on this map and the acreages shown in Table 2 are calculated from this 2008 FLUCFCS map. The percentages of each land use type are similar to the overall land use breakdown of the Serenova parcel as a whole.

TABLE 2
Acreage within Serenova not Utilized as Mitigation

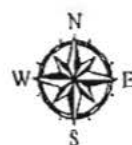
Habitat Type	FLUCFCS	Acreage	Percentage of Total Acreage
Native Uplands	300/400	149.37	62
Agriculture	200	6.15	2
Forested Wetlands	610/620/630	78.37	33
Non-forested Wetlands	640	7.31	3
TOTALS		241.20	100

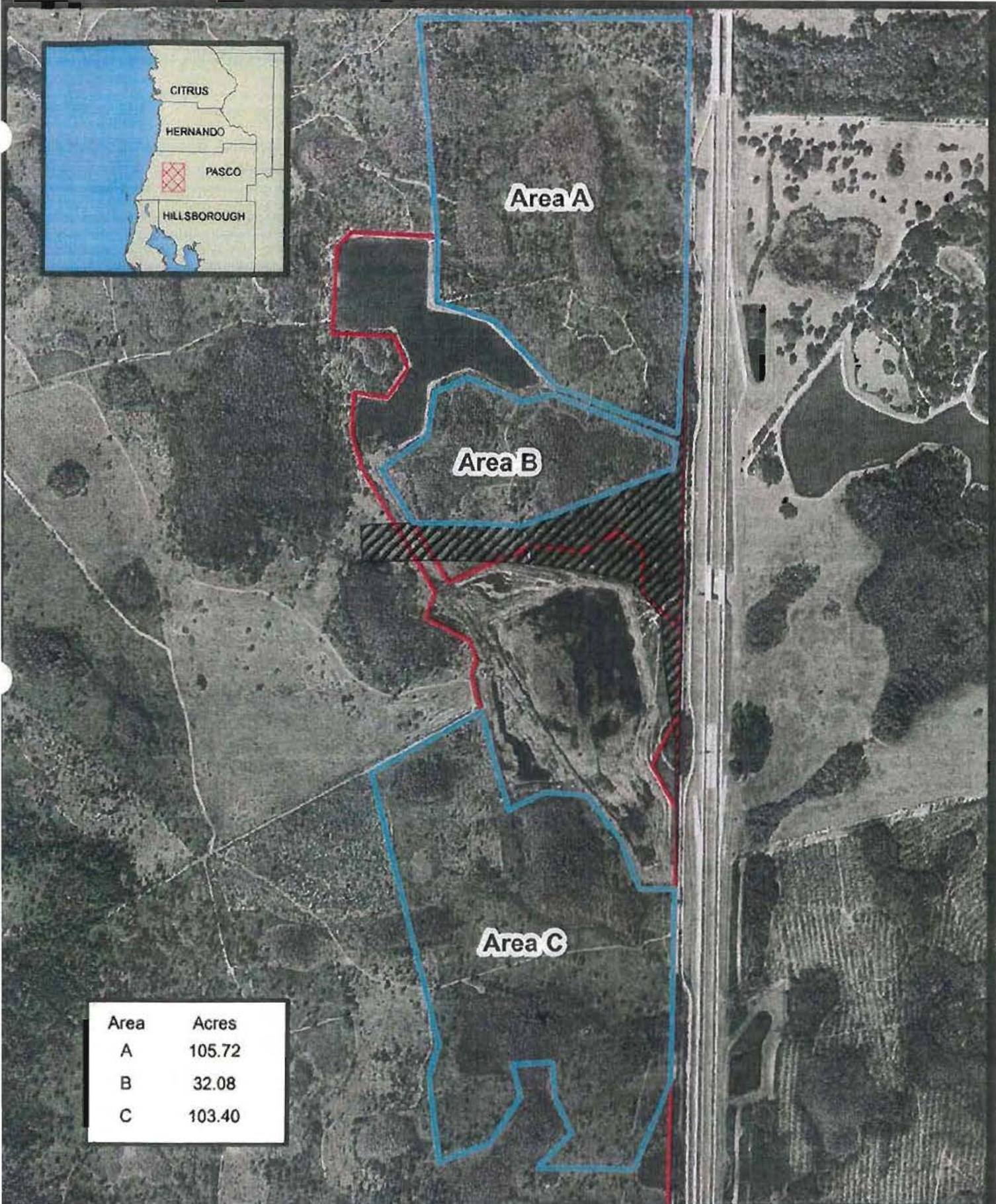
In summary, this permit modification of the original Environmental Resource Permit clarifies the acreage of land utilized as mitigation for the wetland impacts associated with the Suncoast Parkway 1 project. In addition, the remaining 241.2 acres of land is specifically identified by area and land use. Upon approval of this modification, Areas A, B and C within the Serenova parcel will be available to offset wetland impacts associated with any Turnpike Enterprise future projects within the same drainage basin.



Figure 1.
Serenova Parcel

 Future Ridge Road Interchange
  Serenova Parcel
  Excess Mitigation Areas



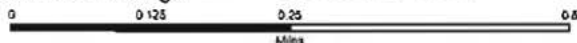


Area	Acres
A	105.72
B	32.08
C	103.40

Figure 2.

Suncoast Parkway I Excess Mitigation Areas

 Future Ridge Road Interchange
  Serenova Parcel
  Excess Mitigation Areas



Source: SWFWMD, Florida's Turnpike Enterprise



FLUCFCS	A	B	C	Total
2100 - CROPLAND AND PASTURELAND	0.00	4.02	2.13	6.15
3200 - SHRUB AND BRUSHLAND	9.44	8.20	31.06	48.70
4110 - UPLAND CONIFEROUS FORESTS	58.86	1.14	34.25	94.25
4340 - UPLAND HARDWOOD FORESTS	6.42	0.00	0.00	6.42
6150 - WETLAND HARDWOOD FORESTS	0.44	0.00	0.00	0.44
6210 - WETLAND CONIFEROUS FORESTS	27.69	17.46	30.41	75.56
6300 - WETLAND FORESTED MIXED	2.17	0.00	0.00	2.17
6410 - VEGETATED NON-FORESTED WETLANDS	0.50	1.26	5.55	7.31
TOTAL	105.72	32.08	103.40	241.20

Figure 3.
Suncoast Parkway I Excess Mitigation Areas

 Future Ridge Road Interchange
  Serenova Parcel
  Excess Mitigation Areas



Source: SWFWMD Florida's Turnpike Enterprise

