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ACRONYM	FULL NAME
ACE	Alternative Corridor Evaluation
ACHP	Advisory Council on Historic Preservation
AN	Advance Notification
APE	Area of Potential Effect
ATC	Alternative Technical Concept
BMPs	Best Management Practices
во	Biological Opinion
CCCL	Coastal Construction Control Line
CE	Categorical Exclusion
CEI	Construction Engineering and Inspection
CFR	Code of Federal Regulations
СОА	Class of Action
СРАМ	Construction Project Administration Manual
CRAS	Cultural Resource Assessment Survey
CRC	Cultural Resources Coordinator
CWA	Clean Water Act
CZMA	Coastal Zone Management Act
D/B	Design-Build
DHR	Division of Historical Resources
DOD	Department of Defense
EA	Environmental Assessment
EFH	Essential Fish Habitat
EIS	Environmental Impact Statement
EMO	Environmental Management Office
EO	Executive Order
EPA	Environmental Protection Agency
EPC	Environmental Permit Coordinator
ERP	Environmental Resource Permit
ESA	Endangered Species Act

ACRONYM	FULL NAME
EST	Environmental Screening Tool
ETAT	Environmental Technical Advisory Team
ETDM	Efficient Transportation Decision Making
F.A.C.	Florida Administrative Code
FAESS	Florida Association of Environmental Soil Scientists
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FGDL	Florida Geographic Data Library
FHWA	Federal Highway Administration
FNAI	Florida Natural Areas Inventory
FONSI	Finding of No Significant Impact
FPL	Florida Power and Light
F.S.	Florida Statutes
FTE	Florida's Turnpike Enterprise (Enterprise)
FWC	Florida Fish and Wildlife Conservation Commission
FWCA	Fish and Wildlife Coordination Act
GIS	Geographic Information System
GP	General Permit
GPS	Global Positioning System
HCD	Habitat Conservation Division (NMFS)
НСР	Habitat Conservation Plan
ICW	Intracoastal Waterway
IP	Individual Permit
IPaC	Information for Planning and Conservation
ITB	Invitation to Bid
LOP	Letter of Permission
MHW	Mean High-Water
MLW	Mean Low-Water
МОА	Memorandum of Agreement

ACRONYM	FULL NAME
MOU	Memorandum of Understanding
MSSW	Management and Storage of Surface Waters
NEPA	National Environmental Policy Act
NHD	National Hydrography Dataset
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NMSA	Non-Major State Action
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
NPR	No Permit Required
NRCS	Natural Resources Conservation Service
NRE	Natural Resources Evaluation
NRHP	National Register of Historic Places
NWFWMD	Northwest Florida Water Management District
NWI	National Wetlands Inventory
NWP	Nationwide Permit
OEM	Office of Environmental Management
OFW	Outstanding Florida Waters
PCN	Pre-Construction Notification
PCR	Project Commitment Record
PD&E	Project Development and Environment
PED	Preliminary Environmental Discussion
PER	Preliminary Engineering Report
PM	Project Manager
PRD	Protected Resource Division (NMFS)
PSEE	ProjectSuite Enterprise Edition
PSM	Project Schedule and Management Module
RAI	Request for Additional Information
RIBITS	Regulatory In-lieu fee and Bank Information Tracking System

ACRONYM	FULL NAME
ROW	Right of Way
RRS	Regulatory Request System
SAFE	Secure Access File Exchange
SAJ	USACE South Atlantic District Office in Jacksonville
SEIR	State Environmental Impact Report
SFWMD	South Florida Water Management District
SHPO	State Historic Preservation Officer
SJRWMD	St. Johns River Water Management District
SPGP	Statewide Programmatic General Permit
SRCC	Stormwater Runoff Control Concept
SWERP	Statewide Environmental Resource Permit
SWFWMD	Southwest Florida Water Management District
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
UMAM	Uniform Mitigation Assessment Method
USACE	United States Army Corps of Engineers
U.S.C.	United States Code
USCG	United States Coast Guard
USDOT	United States Department of Transportation
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WATER	Wetland Assessment Technique for Environmental Review
WBIDS	Waterbody Identification Number
WMD	Water Management District
WRAP	Wetland Rapid Assessment Procedure

SECTION 1: INTRODUCTION

1.1 Purpose of Handbook

This Permit Handbook provides a practical "how to" permitting guide and reference for environmental professionals in the Florida Department of Transportation (FDOT) when FDOT is the permit applicant. The intended audience includes FDOT Districts and the Florida's Turnpike Enterprise (Enterprise) staff, FDOT offices (e.g., Environmental Management, Design, Construction, and Maintenance) and their consultants.

The purpose of this handbook is to provide guidance on how environmental permitting is performed for transportation projects. This includes how and when to coordinate with regulatory agencies and commenting agencies, as well as internal coordination between the various FDOT offices that are involved in obtaining permits for a project. This handbook will help the permittee connect the permitting process from the early stages of project Planning, through Project Development and Environment (PD&E), Design, Construction, and some maintenance activities.

This handbook works in concert with FDOT's <u>PD&E Manual</u> chapters, specifically: <u>Environmental Permits (Part 1, Chap 12)</u>; <u>United States Coast Guard Projects and</u> <u>Navigation (Part 1, Chap. 16)</u>; <u>Wetlands and Other Surface Waters (Part 2, Chap. 9)</u>; and <u>Protected Species and Habitat (Part 2, Chap. 16)</u>.

The handbook also incorporates other chapters from the PD&E Manual and Efficient Transportation Decision Making (ETDM) Manual, including the <u>Project Development</u> <u>Process (Part 1, Chap. 4); ETDM (ETDM Manual); Engineering Analysis (Part 2, Chap. 3);</u> <u>Essential Fish Habitat (Part 2, Chap. 17); Archaeological and Historical Resources (Part 2, Chap. 8); Commitments (Part 2, Chap. 22)</u>; and other topics related to environmental permitting. In addition, the handbook incorporates the most recent information from the permitting and resource agencies guidance documents, manuals, forms, and trainings.

The following "how to" issues are addressed:

- Determine which environmental permits are required for a project
- Understand the interrelationships between federal, state, and local permitting procedures (and commenting agencies)
- Determine which speciality permits (Right-of-Way Occupancy, Consumptive Water Use/Dewatering, Coastal Construction Control Line, and National Marine Sanctuary) are required for a project
- Maximize information capture and coordination between project phases (e.g., Planning, PD&E, Design, Construction, and Maintenance)
- Identify interrelationships and optimize the timing and coordination of permitrelated activities to streamline overall permitting duration
- Implement "best management practices" for overall permitting strategies and specific permits

- Initiate agency coordination/consultation prior to permit application submittal
- Identify and prepare supporting documentation (forms, plans, impacts) for the pre-application meeting
- Research existing permitting history and review any permitting conditions
- Identify, access, and properly complete permit application forms (hyperlinks to permit forms and instructions are included where possible)
- Recognize and interpret the necessary application supporting documents, reports (such as the Drainage Report, Geotechnical Report, Rights-of-Way analysis, and approved PD&E document or Re-evaluations), and plans required by the permitting agencies
- Identify institutional knowledge and contacts for the project or region
- Understand the crucial actions that need to occur during the application process (Requests for Additional Information (RAIs), time extensions, level of plans) and their impact on schedule and plan designs
- Identify and track permit conditions, expiration dates, and permit compliance conditions/measures after permit issuance
- Reinitiate agency coordination for permit modifications and/or extensions

The handbook also includes Appendices to address specialized environmental permits and procedures [e.g., Section 408 Review and Permission, 33 USC 408]; specific natural resources (e.g., protected species); geographically restricted resources within certain parts of Florida (e.g., Florida Keys National Marine Sanctuary); and local permitting regulations (e.g., Miami-Dade County).

1.2 Organization of the Permit Handbook

This Permit Handbook can be used for a variety of purposes, depending on the reader's needs, level of experience, and the project phase and/or permit(s) of interest. If the reader's interest is to *learn* more about a certain type of permit or to understand general procedures, then each handbook section can be read in whole or in part.

If the reader seeks <u>specific information</u>, the handbook provides a detailed index of subjects and keywords.

The handbook contains hyperlinks to FDOT and external resources on the internet. These resources include downloadable or online permit application forms; permit applicant handbooks and instructions; agency guidance documents; and other resources to facilitate environmental permitting.

Table of Contents

The Table of Contents provides an overview of topics related to FDOT's efforts to apply for environmental permits. Subsections are listed in sufficient detail to locate a specific topic, if desired. The Index allows for searching by major keywords, and the electronic format of the handbook also allows for rapid searching through use of the "Find" functions.

Related PD&E Manual chapters, referenced and hyperlinked throughout the handbook, can also provide background information and context.

A brief overview of the Permit Handbook sections is provided below.

• Section 1: Introduction

• Section 2: Role of the Environmental Permit Coordinator in Key Project Phases

Where do we find the information to include in permit applications?

This section provides a brief overview of FDOT's project development and delivery process, environmental considerations, and describes the interrelated project phases and how they relate to environmental permitting.

• Section 3: Federal Processes

What does the Federal permitting process entail? What types of permits are required for a project, and which agencies will grant them?

This section provides an overview of the federal regulatory agency environmental permitting processes and facilitates timely and efficient environmental permitting.

• Section 4: State Processes

What does the State permit process entail? What types of permits are required for a project, and which agencies will grant them?

This section provides an overview of state regulatory agency environmental permitting processes and facilitates timely and efficient environmental permitting.

• Section 5: Key Resource Impacts

What regulated resources are potentially impacted by FDOT projects?

This section provides guidance on the identification of threatened and endangered species/habitats, cultural resources, and wetland impacts. Identification of key resource impacts is a crucial step in the permitting process as the information gathered must be documented in the permit application. This section includes details pertaining to agency coordination, Endangered Species Act (ESA) Section 7 consultation, the 2021 United States Fish and Wildlife Service (USFWS)/FDOT Programmatic Approach for Minor Project Activities, and ESA Section 10 Incidental Take Permits.

Federal and state guidelines for wetland mitigation are also provided in this section, along with a discussion of various potential mitigation options. Section 5 also includes details for wetland functional assessment methodologies along with funding of mitigation activities.

• Section 6: Permit Acquisition from Start to Finish

When and how do we apply for permits? Where do we find the information to include in permit applications? What statutory timeframes are provided for the permitting process?

This section provides a step-by-step process of the permit acquisition process from initial scoping of the permitting effort to transmittal of the permits to construction. The process identifies the information required for permit applications, how to compile application packages, and how to navigate permit processing by the agencies. This section includes information and procedures for obtaining a National Pollutant Discharge Elimination System (NPDES) stormwater permit and special use permits. Tracking tools for permitting are also discussed in this section.

• Section 7: Construction & Maintenance Compliance, Enforcement, and Permit Expiration

What happens once permits are obtained?

This section contains guidance on permittee responsibilities and the procedures for complying with permit conditions; implementing mitigation and monitoring activities; seeking permit extensions and/or modifications; expiration, tracking permits, and enforcement.

• Section 8: References

Where can we find out more about environmental permitting?

The major guidance and reference materials cited throughout this handbook are described, along with online links to these sources (where available). Major references include the USACE Source Book; the Florida Statewide ERP (SWERP) Applicant's Handbooks; and various other agency guidance documents.

• Appendices

Where can we find more information about environmental permitting issues specific to our District?

Specific permitting activities that apply to certain local jurisdictions, resource types, regions, and/or activities are covered by individual sections within the Appendices.

1.3 Roles and Responsibilities

This handbook provides guidance regarding the various roles and responsibilities associated with the permitting process. The responsibility for obtaining the necessary environmental permits typically resides with the action agency. Within the FDOT Districts and Enterprise this authority is typically held by the Environmental Permit Coordinator.

NOTE: The organizational structures for the Environmental and Permitting offices vary between each District, and environmental permitting tasks may be delegated to staff and consultants in various ways throughout the state.

Throughout the permitting process, multiple FDOT offices (e.g., Drainage, Environmental, Design, Construction, Maintenance) can have an important role and responsibility to coordinate with the Environmental Permit Coordinator and the staff and/or consultants who are preparing the permit application package. Furthermore, the regulatory agencies all require a combination of engineering and biological considerations to evaluate and quantify impacts to natural resources, which serve as the basis of determining the type of permit and amount of mitigation necessary.

It is crucial for the Design and Environmental Permits staff to coordinate regularly, since the project's design determines the extent of those impacts requiring environmental permits. Input from the various FDOT offices can improve the technical quality and thoroughness of the permit application, as well as improve coordination for compliance activities after permits are issued.

As described in subsequent sections, environmental permitting often involves a series of interrelated tasks performed concurrently over time to develop a complete permit application. Although there are numerous tasks that must be completed to acquire an environmental permit, the critical paths and dependencies should synchronize in a way that optimizes the permitting timeframes. Since a variety of organizational structures exist within the FDOT Districts, it is not possible to assign specific permitting roles and responsibilities in a "one size fits all" manner. Still, it remains imperative that all permitrelated tasks are identified, assigned, tracked, and completed in a coordinated fashion to secure the necessary permits for each project.

One solution is to create a comprehensive matrix of roles and responsibilities for all anticipated permitting tasks, where all tasks are assigned to specific positions or offices. This comprehensive permitting matrix can serve three important functions:

- 1. Help to identify, visualize, and coordinate all the interrelated permitting tasks;
- 2. Assign responsibility and accountability to specific individuals; and,
- 3. Preserve organizational flexibility at the District/Enterprise level.

The same assurances for roles and responsibilities could also be achieved through use of the Project Schedule and Management (PSM) Module in ProjectSuite Enterprise Edition (PSEE), by assigning specific activities and reporting responsibilities (which will be covered in later sections of this handbook) to the appropriate role/person.

1.4 Maintaining Files for Environmental Permitting

An important "take-home message" for the permit applicant is that efficient and successful environmental permitting requires maintaining thorough records of the

permitting files. These records are discussed in further detail in later sections and may include, but are not limited to, the following:

- Project background information (e.g., location map, ROW lines, work activities, existing permits, NPDES, etc.)
- Environmental data (e.g., desktop review, PD&E Study reports, field reports, soil analysis, impaired waters, Class of bodies of water, etc.)
- Engineering plans and drawings (e.g., plans, cross-sections, drawings, specifications, easement/property lines, flood criteria, etc.)
- Calculations; spreadsheets (e.g., drainage report, modeling, Geotech report, specifications, pond siting report, bridge hydraulic report, etc.)
- Permit application forms (e.g., identification of which forms, and sections need to be completed)
- Meeting Minutes and notes (agency coordination history)
- Memos (Technical & Internal Memos)
- Agency correspondence (e.g., pre-application meeting minutes, agency responses, coordination, and communications)

Most of the environmental permitting is performed during the Design phase of the project (see <u>Section 6</u>). However, many projects generate useful permit-related information during the PD&E phase. If a PD&E phase was required for a project, useful permit-related support information may be found in the PD&E Study and technical reports. This information will need to be evaluated to determine if it remains valid in the design phase and that the environmental information does not become outdated. The information and data developed during previous project phases should be documented within the Environmental Document, technical reports, and other project records. The information extracted from previous project phases can avoid unnecessary duplications of effort and improve the efficiency of the permitting process.

Why are these records important for successful environmental permitting? Broadly speaking, they can:

- Document project information and decisions made prior to submittal of the permit application. These records may include project information from the: ETDM Screening (e.g., potential resource impacts; listed species to be evaluated); PD&E data and National Environmental Policy Act (NEPA) analyses (e.g., listed species consultations; alternatives analyses); permits identified by FDOT or the agencies; and the results of initial correspondence and meeting with regulatory and resource agencies.
- Provide the basis for verifying permit application information and for responding to an agency Request for Additional Information (RAI). Regulators will cross-check information as part of the permit application review, and the applicant is expected to provide additional information to substantiate and/or confirm

permitting rationales, data, calculations, and conclusions. If discrepancies exist within the application package, the discrepancies can oftentimes be resolved by reviewing the project records.

- Document interactions with regulatory and resource agencies, including correspondence, meeting notes, and phone calls. In addition to recording the nature and frequency of applicant interactions with agencies, these records should document important decisions, action items, and estimated timeframes for processing the permit application. These communication records enable the applicant to respond promptly to agency requests, and to document previous decisions.
- Identify the base measures, conventions, and rules used for existing technical reports, plans, figures, and documents so that future information can build from them rather than recreating them.
- Catalog and track complex technical issues
- Document and support analyses of alternative selection(s) should they be questioned by the permit reviewers
- Demonstrate "avoidance and minimization" efforts performed for environmental resources during previous project phases.
- Demonstrate to the permit reviewers that the commenting agencies [USFWS, NMFS, Florida Fish and Wildlife Conservation Commission (FWC), State Historic Preservation Officer (SHPO), etc.)] have been coordinated with and results confirmed.
- Identify the existence of previous/existing permits and permit conditions; as well as other legally binding or pertinent documents such as easements, rights-of-way, co-permittees, sovereign-submerged lands, etc.
- Allow the applicant to check the issued permit(s) and any special conditions against the project record. Depending on the number and complexity of permits required for a project, the project documentation allows the applicant to cross-check the issued permit(s) for accuracy, special conditions, and commitments required of the applicant/permittee.
- Develop a complete Administrative Record, when needed. Permitting files can become part of the Administrative Record for a project as requested by the permitting/regulatory agencies. Documentation of permitting, mitigation, commitments, and other project components are important elements in an Administrative Record for a project.

By its nature, environmental permitting can be complex. It often involves many interrelated tasks, requires coordination among multiple parties, and can extend over long timeframes (months or years). Maintaining well-organized permitting records can provide a strong basis for:

- developing well-prepared and complete permit applications;
- monitoring the permitting process;
- tracking action items throughout the permitting process;
- facilitating permit issuance in an efficient and timely manner;
- reducing costs by avoiding duplicative work, unnecessary coordination, and needless technical research;
- transmitting the permit information to the next phase of the project (e.g., Construction and Maintenance);
- tracking the status of permit conditions; and
- building/maintaining valuable relationships with permit reviewers.

This handbook covers a range of details regarding the responsibilities and tasks associated with environmental permitting. It is recommended that the Districts save project documentation to the StateWide Environmental Project Tracker (SWEPT) project file, or other District filing system, to support a robust project record and help facilitate the permitting process.

SECTION 2: ROLE OF THE ENVIRONMENTAL PERMIT COORDINATOR IN KEY PROJECT PHASES

The Florida Department of Transportation's (FDOT's) process for constructing transportation facilities includes multiple phases of project delivery, from project planning and design to construction and maintenance. This handbook addresses the phases of project delivery that relate to obtaining environmental permits authorizing construction and the process for recognizing potential environmental impacts. The purpose of this section is to: identify the role of the Environmental Permit Coordinator (EPC) in each phase of project delivery, discuss the intent of that action and its relationship to the permitting process, and identify the specific items that should be documented and used to obtain permits. <u>Figure 2-1</u> provides a flowchart outlining the EPC's role in each phase of the project.

For FDOT, permit applications are typically submitted to the regulatory agencies during the Design phase after the 60% plans have gone through internal FDOT review and all comments have been addressed.

NOTE: This Section discusses activities that need to be completed to obtain environmental permits. The District staff responsible for leading the permitting effort may be the District Environmental Permitting Engineer, Environmental Permits Coordinator, or Drainage Engineer depending on that District's organization. For the purposes of this handbook, this position will be referred to as the Environmental Permit Coordinator (EPC).

2.1 Participating in the Planning Phase

2.1.1 Coordination Activities During the Planning Phase

During the Planning phase, FDOT typically adopts or prepares a Planning Study, Feasibility Study and/or desktop evaluation to identify the need for further assessments for a project. The EPC will review the anticipated federal and state permits identified through the Planning Study or Feasibility Study that may be required for the project. Guidance from the EPC during this phase will help inform the Preliminary Environmental Discussion (PED) and the ETDM process, discussed below, as well as scope development for the future PD&E Study or Design phase. The benefit of early coordination through the ETDM process is to identify any issues that would elevate the project's **Environmental Document Type** or affect the schedule of the PD&E Study or Design phases, as well as provide Work Program with general guidance on financial requirements to support those activities.

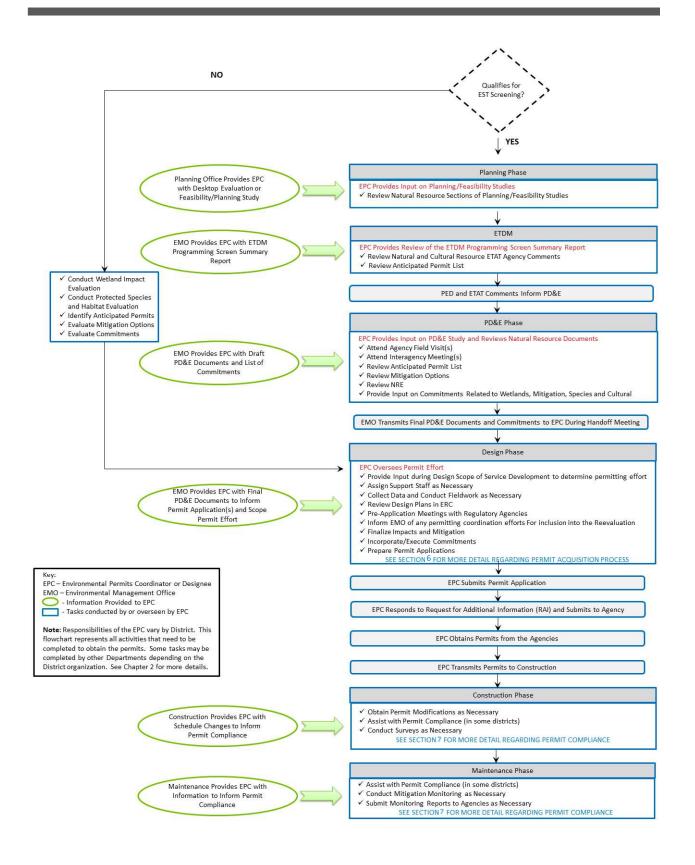


Figure 2-1 EPC's Role in Key Project Phases

2.1.1.1 Planning/Feasibility Studies

During the Planning phase, the Planning Office, or the Environmental Management Office (EMO) takes the lead on evaluating potential corridors or concepts that will develop into a future PD&E Study or Design project.



The Planning Office provides the EPC with any Feasibility/Planning Studies prepared and the ETDM Planning Screen.

The EPC reviews the document and provides input regarding the natural resource sections. Specifically, the EPC will review information provided by the EMO pertaining to wetlands, protected species, Essential Fish Habitat (EFH), anticipated permits, and (if unavoidable environmental impacts are anticipated) any potential mitigation needs.

2.1.1.2 Efficient Transportation Decision Making (ETDM) Screening

The ETDM screening process occurs in the Planning phase of FDOT project delivery for projects qualifying for a PD&E Study. The process is used as a "first look" environmental analysis and early identification of potential environmental effects. To qualify for the ETDM screening process, a project must meet conditions described in the ETDM and PD&E Manuals. Examples of projects that qualify for ETDM screening include new roadways, interchanges, or bridges along with projects that propose additional access or capacity improvements.

The ETDM phase utilizes the Environmental Screening Tool (EST), which provides users Geographic Information System (GIS) data from a multitude of resources and allows for regulatory and resource agencies and other stakeholders to provide comments and considerations.

As part of this phase, an Advance Notification (AN) Package is sent to the agencies during the ETDM screening. FDOT prepares a PED to share with the environmental regulatory and resource agencies, who comprise the Environmental Technical Advisory Team (ETAT) members. The PED provides early identification of resource involvement, anticipated permitting requirements, and potential mitigation options. **The EPC may be asked by the ETDM Coordinator to review information in the PED including the list of permits that may be required for the project based on the anticipated project impacts.**

Preliminary input on the project is solicited from the permitting agencies as part of the ETAT comment period. These comments provide early insight regarding which environmental resources/issues (such as wetland permitting requirements or endangered species mitigation) have been identified in the project area and, hence, which issues must be addressed as the project progresses.

The ETAT members review the project's Purpose and Need, provide general comments, and select a Degree of Effect for each pertinent environmental resource topic ranging from 'No Involvement', 'None', 'Enhanced', 'Minimal', 'Moderate', 'Substantial' to 'Dispute Resolution'. The resulting Final Programming Screening Summary Report provides a summary of existing and potential environmental issues, issue resolution, and permitting considerations. For the EPC, the summary report will identify the level of agency coordination anticipated during PD&E, such as formal or informal Section 7 ESA consultation for listed species (see <u>Section 5</u>), cultural resources, and mitigation and what issues/coordination will occur during the PD&E phase that the EPC can use in the permitting phase.

The <u>ETDM Manual</u> can be referenced for additional details relating to degrees of effect, Screening Summary Reports and topics reviewed by the ETAT members. <u>Click here for</u> <u>OEM ETDM Training</u>.

Examples of permitting considerations that may be commented on by regulatory agencies during the ETDM screening include:

FEDERAL AGENCIES

U.S. Army Corps of Engineers (USACE)

- Preliminary identification of permit(s) that may be required
- Preliminary identification of known wetland jurisdictional areas
- Minimization/Alternative Concepts or wetland mitigation opportunities
- Identification of any Section 408 requirements
- Section 404 / Dredge and Fill Considerations

U.S. Coast Guard (USCG)

- Early determination of navigable waterway
- Preliminary identification of the potential for a USCG permit to be required
- Issues with any Navigational Aids

U.S. Fish and Wildlife Service (USFWS)

- Identification of wetlands through the USFWS National Wetland Inventory Areas System
- Documented listed species consultation areas and critical habitats, and any known observations or occurrences of listed species in the vicinity of the project corridor (including species covered under the Programmatic Approach for Minor Transportation Activities)
- Habitat types within and adjacent to the project corridor
- Potential wildlife crossing considerations
- Coastal Barrier Resources

National Oceanic and Atmosphere Administration (NOAA) Fisheries/National Marine Fisheries Service (NMFS)

- Essential Fish Habitat (EFH) resources present including designated Habitat Areas of Particular Concern (HAPCs)
- EFH associated with species listed within the NMFS's Fishery Management Plans (FMPs)
- Documented Endangered Species Act (ESA) listed species under NMFS purview that potentially occur in the vicinity of the corridor
- Identification of designated Critical Habitat for species under NMFS's purview

U.S. Environmental Protection Agency (USEPA)

- Air Quality and Air Emission Facilities
- Sole Source Aquifer

STATE AGENCIES

Florida Department of Environmental Protection (FDEP)

- Sovereign Submerged Lands identification
- Natural Springs
- Potential contamination, Superfund, and waste sites
- National Pollution Discharge Elimination System (NPDES) Delegated to FDEP by USEPA
- Impaired Waters Delegated to FDEP by USEPA
- Identification of waters with special designations (i.e., Aquatic Preserves, Outstanding Florida Waters (OFWs), Wellfield, Wild and Scenic Rivers, etc.)
- Geological considerations- karst formations and saltwater intrusion considerations
- Special water quality impairment zones
- Coastal Construction Control Line (CCCL)

Water Management Districts (WMD)

- Identification of any works or structures to be considered; including major works of the state (i.e., Comprehensive Everglades Restoration Plan (CERP); Biscayne Bay, and Big Cypress)
- Sovereign Submerged Lands identification
- Land use within and adjacent to the corridor
- Specific recommendations regarding avoidance and minimization of resources
- Specific stormwater treatment requirements, Sensitive Karst Area Basin, specific Total Maximum Daily Loads (TMDLs), and Waterbody Identification Numbers (WBIDs) requirements
- Specific regional design considerations such as drainage basins, verified water impairment areas, springs protection areas, riparian habitat protection zones, flood zones, bridge hydraulics report, OFWs, etc.
- Preliminary identification of wetlands and jurisdictional areas

- Adjacent projects that may have permit conditions for drainage and water flow requirements, water control elevations, or on-site mitigation
- Potential conflicts with WMD's structures and rights-of-way

State Historic Preservation Officer (SHPO)

- Preliminary identification of historic, cultural and archaeological resources
- Identification of any existing historical, cultural, and archaeological surveys

Florida Fish and Wildlife Conservation Commission (FWC)

- Identification of Wildlife Observations
- Any concerns regarding State listed species and habitats
- Issues with FWC Managed Areas

2.2 Participation in the Project Development and Environment Phase

The PD&E Study is the next phase of FDOT project delivery and ensures NEPA compliance for applicable federally funded projects (Type 2 CE, EA, EIS). State-funded projects that qualify for ETDM screenings, processed as SEIRs, follow the PD&E process to ensure compliance with state and federal regulations, specifically if federal permits will be required for construction. Please refer to FDOT's <u>PD&E Manual</u> for a complete list of qualifying project types for each Environmental Document Type.

Projects that do not qualify for PD&E Studies include Type 1 CEs and NMSAs. For these projects, an environmental impact evaluation is conducted and is documented in a Type 1 CE or NMSA during the Design Phase. In addition, avoidance and minimization of impacts is explored and developed to satisfy state and federal permitting criteria. See <u>Section 5</u>.

As part of the PD&E phase, an in-depth analysis of the potential effects of the project on natural, physical, cultural, and social resources is undertaken with consideration of project alternatives. This part of project delivery takes preliminary design concepts that meet a public need and provides an analysis of alternatives to identify a preferred alternative that balances design requirements with potential project environmental impacts.

The overall approved "purpose and need" of a project should be carried forward into the permitting documents, as it is the justification for the proposed construction. For a PD&E Study to be properly scoped, it is critical that the EPC, PD&E Project Manager (PM), and EMO staff coordinate to ensure accuracy and consistency regarding the project schedule, environmental analyses needed, and anticipated permitting requirements. The ETAT agency comments received during the ETDM process informs the Scope of Services and staff hour estimates prepared by the PD&E PM with input from the District technical staff.



The EPC provides input related to design activities that may overlap with or impact the PD&E phase, natural resource evaluation, species consultation, and conceptual mitigation options.

2.2.1 Environmental Document Review

PD&E Study documents that relate directly to permitting include the Natural Resource Evaluation (NRE), Pond Siting Report, Bridge Hydraulic Report, regional hydrology and water quality reports, the Cultural Resources Assessment Survey (CRAS), Contamination Screening Evaluation Report (CSER); Preliminary Engineering Report (PER) and the environmental documents [Type 2 CE, EIS, EA with Finding of No Significant Impact (FONSI), and SEIR1. These documents, and any associated commitments made in these documents, must be carefully reviewed prior to the Design phase scoping process to use as a springboard for anticipated permitting involvement and to ensure that previous efforts are properly utilized and are not duplicated. Commitments (e.g., an obligation to an external stakeholder to provide a feature or perform an action related to a project that will be implemented in a future project phase); actions in permitting meant to define in greater detail the presence/absence of potential impact on a resource; and actions during construction to avoid impacts to resources are important components of a transportation project as they provide assurance to resource agencies and other stakeholders that identified issues will be addressed in future phases of project delivery. FDOT's procedure for documenting and tracking project commitments is in Procedure No. 650-000-003, Project Commitment Tracking. Project commitments can be found in the PSEE Commitment Module, which is the standard system for documenting, transmitting, and tracking project commitments. For projects with a PD&E Study, the PD&E Project Manager uses PSEE to transmit commitments to the Project Manager during the Design phase. These documents and commitments will provide a basis for the environmental permit applications and, in some cases, may contain the requisite information needed to satisfy state and federal permitting requirements as discussed below.



The EMO provides the EPC with the draft PD&E documents and the list of project specific commitments for review and comment through ERC, PSEE, or coordination meeting.

2.2.1.1 Alternative Analysis

An alternative analysis is completed as part of the PD&E Study. For Type 2 CEs, EAs, ElSs and SEIRs, this analysis will typically include the engineering and environmental evaluation of one or more build alternatives and the 'no action' alternative. Both the environmental document and the Preliminary Engineering Report (PER) include an evaluation of the proposed alternatives and the environmental impacts associated with each alternative. The environmental analysis will look at avoidance and minimization measures to reduce the potential environmental impacts associated with each alternative. In most cases, the alternative analysis is a strong starting point for the avoidance and minimization documentation in the permit application, although additional analysis during Design may be required.

For proposed new roadway or bridge alignments, the indirect and cumulative effects analyses performed during the PD&E Study are critical components to support the selection of the preferred alternative. For the state and federal permitting processes, these terms have separate and distinct regulatory meaning that will be explained in <u>Section 3</u> and <u>Section 4</u>. However, the information assembled from this portion of the PD&E Study should be used as the starting point to include in the permit applications.

The analysis of indirect and cumulative effects during PD&E can incorporate additional stakeholder coordination that will be essential for permitting presumptions made during the PD&E Study and become an important aspect for the permitting process in Design. The documentation of the avoidance and minimization, and/or the reduction/elimination of impacts, is essential for Design and permitting. If unavoidable impacts will occur, compensatory mitigation may be required.

2.2.1.2 Natural Resource Evaluation (NRE)

An NRE includes a natural resources analysis of the project area based on the alternatives evaluated. Wetlands are documented in the Wetland Evaluation section of the NRE in accordance with <u>Part 2, Chapter 9</u> (Wetlands and Other Surface Waters) of the PD&E Manual. An evaluation of impacts is performed for all potential jurisdictional wetland areas such as freshwater wetlands, mangroves, seagrass, and other surface waters (see <u>Section 4</u>). Coordination with regulatory agencies is also documented. Potential effects to protected species and their habitats are documented in the Protected Species and Habitat section of the NRE in accordance with <u>Part 2, Chapter 16</u> of the PD&E Manual. Documented effects within this report include the results of species-specific surveys and effects determinations, as well as consultation with USFWS and NMFS as appropriate (see <u>Section 4</u>). When EFH is present, the NRE includes an EFH impact analysis in accordance with <u>Part 2, Chapter 17</u> (see <u>Section 5</u>). Agency concurrence documentation from the USFWS, NMFS, and/or the FWC is included as part of the final environmental document (EIS, EA, Type 2 CE, SEIR).

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The NRE provides important information such as the anticipated permit list, potential mitigation requirements, avoidance and minimization measures, and commitments. The EPC may provide input into the NRE analysis, as the impacts identified in the NRE form the basis of the permit application.

2.2.1.3 Historic and Archaeological Resources

In accordance with <u>Part 2, Chapter 8</u> (Archaeological and Historic Resources) of the PD&E Manual, the Cultural Resources Assessment Survey (CRAS) and associated Case Study are reviewed by the SHPO as part of the PD&E analysis. The CRAS/Case Study are reviewed by the Florida Division of Historical Resources (DHR). The CRAS identifies the potential historic and archaeological sites within the PD&E Study within an assigned

distance, referred to as an Area of Potential Effect (APE), which varies according to project scope and location and includes proposed stormwater pond sites. The Case Study evaluates the potential effect a project will have on those sites that are listed or are eligible for listing on the National Register of Historic Places (NRHP).

Concurrence from the SHPO/DHR is a requirement to obtain state Environmental Resource Permits (ERPs) and federal permits. The <u>Section 106 Programmatic Agreement</u> is utilized in order to satisfy Section 106 responsibilities set forth in 36 C.F.R. Part 800 and to integrate historic resources protection responsibilities under federal and state statutes, regulations, Executive Orders, policies, and procedures. The SHPO/DHR concurrence letter received during PD&E may be able to be used to satisfy this permit requirement. Otherwise, the EMO will need to prepare a CRAS Addendum and Case Study, if applicable, to obtain an updated concurrence letter from the SHPO/DHR during the re-evaluation process (PD&E Manual Part 1, Chapter 13) in design.



The CRAS provides important information such as avoidance and minimization measures and commitments. The EPC may provide input into the CRAS analysis, as it can impact aspects of permitting.

2.2.1.4 Agency Coordination

A continuation of the coordination conducted during the ETDM process with the regulatory and commenting agencies should occur 'early and often' as the PD&E Study progresses.

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As appropriate, the EPC may attend and document agency field visits, interagency meetings, and other agency meetings where decisions are being made in the creation of special permitting conditions and/or avoidance and minimization measures, including mitigation requirements.

This allows the EPC to remain informed as to the reasoning behind project decisions made during the PD&E phase and document these decisions which may impact or be relevant during project permitting.

The PD&E Project Manager keeps records of the primary agency contacts, dates, and details of agency meetings/correspondence, and follow-up agency actions. This information may be requested by the EPC as part of the permit application process. The agencies may use this information to inform their selection of a permit reviewer(s) who would be most familiar with the project.

2.2.1.5 Project Commitments Related to Permitting

Project commitments are an important aspect of the PD&E phase's conclusion, as the commitments provide assurances that any identified environmental issues will be appropriately addressed in future project phases. FDOT tracks these commitments in ProjectSuite Enterprise Edition (PSEE) and with the Project Commitment Record (PCR, Form <u>650-000-01</u>). The project commitments made during the PD&E phase are included in the appropriate sections of the Environmental Document and entered into PSEE, see

<u>PD&E Manual Part 2, Chapter 22 (Section 22.2.3.1)</u> and <u>FDOT Commitment Tracking</u> <u>Procedure No. 650-000-003 for further information</u>.

Examples of commitments that relate to permitting include installation of wildlife crossings; pre-Construction surveys for listed species; seasonal work restrictions for listed species; lighting and night work restrictions; species mitigation; and archaeological monitoring. It is important that commitments are communicated from the EMO to the Design PM and the EPC prior to the start of design scope development to ensure that all commitments are thoroughly understood. Commitments made during PD&E are incorporated into the design (e.g., project specific plan notes); construction firm contract documents (e.g., special provisions); and permit application documents (e.g., results of species survey).



Since some PD&E commitments may be relevant to the permitting process, it is beneficial for the EPC to review and provide feedback.

2.3 Participation in the Design Phase

The Design of a project comprises the next phase of FDOT project delivery. For major projects, this phase takes the PD&E preferred alternative and develops the final engineering aspects of the project for construction. For most projects, a PD&E Study is not required, and the process begins in Design. In both cases, permit applications are typically submitted for regulatory agency review at 60-percent plan development and after all interdisciplinary internal comments (i.e., ERC) have been addressed.



It is the EPC's responsibility to ensure that permits are acquired within the production schedule. See <u>Section 6</u> for a step-by-step guide to the permit application process.

The design is typically carried out by a consultant team led by FDOT's PM and each assigned discipline lead (i.e., Drainage, Permitting, Structures, etc.). For some projects, the design is sometimes carried out by FDOT in-house staff or in-house consultants. Regardless of who carries out the design analysis, the same process applies.



At the beginning of the Design phase, it is recommended that a project "Handoff Meeting" be held where the EMO and the PD&E PM formally transmit the PD&E documents to the Design PM and the EPC.

This meeting can help to ensure a smooth transition of information from one phase to another. The EPC will use the PD&E documents, such as agency concurrence letters, NRE, CRAS, Environmental Document and re-evaluation, to support the permitting effort. As previously mentioned, these documents provide information to help prepare permit application(s). For those projects that do not have a PD&E phase, a "kick-off meeting" may still provide a means to identify key documents and transfer any environmental analysis to the Design PM and the EPC (i.e., environmental features and avoidance measures).

2.3.1 Scope Development

If the design consultant team will be preparing the permit applications, the EPC will provide input into the staff hour estimate and scope related specifically to the permitting effort. In some cases, the EPC may use in-house staff or consultant support for the permitting effort. In either case, once the level of required permitting effort has been identified, the EPC, or the assigned support staff, will oversee the plans review, as outlined in <u>Section 2.3.2</u> and <u>Section 6.1</u>.



If a PD&E was conducted, the EPC will use the information to provide input on the scope of services to determine the permitting effort required. For minor projects, further environmental evaluation may be required (e.g., wetland delineation).

2.3.2 Plans Review

The EPC, their designated staff, or FDOT consultant, will review each phase of the design plans to determine the following:

- What are the natural resource impacts (i.e., wetlands, protected species, EFH, etc.)?
- What level and/or type of field surveys are required? Are there seasonal or other restrictions for conducting those surveys?
- Will other environmental analysis be required (e.g., wetland delineation, wood stork biomass, drainage calculations, floodplain encroachment, impacts outside of FDOT's rights-of-way, wellfields)
- What type of agency coordination is needed and when should it occur?
- What permits are required?
- Has the District Contamination Impact Coordinator identified any contamination impacts that will affect drainage?
- Is coordination with other disciplines required (i.e., Construction, Contamination, Drainage, EMO)?
- Will wetland or species mitigation be required?
- Are there design changes that require permit modifications (if permits have previously been issued for the project in a prior phase)?
- Are Project Specific plan notes or Special Provisions required?

If the project qualified for a PD&E Study, the EPC reviews the environmental document and supporting technical reports to determine what analysis has already been completed, what impacts have already been identified, what agency consultation/coordination has been completed, as well as what has changed on the project to develop a permitting strategy. If the project did not qualify for a PD&E Study, the EPC would then rely on a review of the design plans and coordinate with the design team and EMO to identify any natural and/or cultural resources impacts as well as any permitting needs. See <u>Section 5</u> for more details relating to the identification of resources and <u>Section 6</u> for details of the permit application process. Project plans reviews typically occur through the ERC system so that issues can be identified, tracked, and addressed.

2.3.3 Obtain Permits

The EPC is responsible for overseeing the permitting effort and ensuring that permits are obtained within the production schedule; however, some tasks may be completed by other District staff or offices, or accomplished with consultant support, depending on the District organization.

The EPC, or designated consultant/FDOT staff, will:

- Attend pre-application meetings with regulatory agencies
- Determine project impacts and mitigation
- Determine the types of permits required through coordination with the agencies and ensures the proper application forms are identified to be completed
- Facilitates the submittal of supporting documents to the permitting agencies (e.g., species and SHPO concurrence letters, relevant PD&E documents, PD&E commitments)
- Prepare, review, and submit the permit applications
- Coordinate with the appropriate Department staff to prepare responses to any Request(s) for Additional Information (RAIs) to the appropriate regulatory agency

2.4 Re-evaluations

Once a PD&E Study is approved, it must be re-evaluated in accordance with <u>Part 1</u>, <u>Chapter 13</u> to ensure that the decisions and findings made during the PD&E (or the previous project phase) and anticipated impacts remain valid.

A Re-evaluation documents major design changes, environmental impacts, or changes in federal and state laws that occurred after the approval of the Environmental Document or most recent re-evaluation. Major design changes include changes in typical section; shifts in roadway alignment; changes in Right of Way (ROW) requirements; changes in drainage requirements; and changes in traffic volumes that may affect traffic noise models.

During the re-evaluation process, design changes that affect wetlands, protected species and habitat, and archaeological and historic resources are also assessed.

Re-evaluations rely on this information; hence it is important that the EMO, permitting staff and the Design PM frequently discuss project changes to ensure these changes are properly evaluated in terms of environmental impacts and are properly documented in the Re-evaluations. Agency consultation (i.e., USFWS/NMFS and/or SHPO) due to changes in project impacts must be completed prior to advancing a project to the construction phase. Typically, an environmental permit will not be issued until species and cultural resource consultations are complete.



NOTE: EMO provides wetland, benthic, or species surveys conducted in the Design Phase, as well as consultation letters (i.e., Section 7 ESA documents or consultation letters), mitigation status, and commitment status related to natural resources in the re-evaluation. The EPC provides the status of permit applications and agency coordination summary.

2.5 Participation in the Construction Phase



Once permits have been issued, the District Permit Coordinator, or FDOT designated Environmental Compliance Consultant, prepares a <u>Permit</u> <u>Transmittal Memorandum, Form No. 650-040-01</u> prior to the production date and sends copies of the permits to Construction and other interested parties (see <u>Section 6.10</u>).

The permits are included in the contract package prior to the letting.



The EPC will participate in the pre-Construction Meeting to answer questions from the Contractor and FDOT construction staff on the permit conditions and environmental commitments associated with the project.

2.5.1 Alternative Project Delivery

The Construction phase of project delivery is primarily accomplished through the Design-Bid-Build or the Design-Build (D/B) processes. The Design-Bid-Build (conventional) process is a form of project delivery whereby specifications are prepared under a design services contract, and then separately contracts for construction services by engaging a Contractor through competitive bidding. The D/B form of project delivery is a system of contracting whereby one entity performs both engineering design and construction under one contract.

The difference between Design-Bid-Build and D/B processes from a permitting perspective is the timing of permit acquisition. Design-Bid-Build projects are typically awarded with permits which are issued prior to Letting. On D/B Projects, conceptual or construction permits may be acquired by FDOT prior to letting but may be modified by the D/B Team based on design changes proposed during the Alternative Technical Concept (ATC) process. Otherwise, the permitting effort is assigned as part of the D/B team scope of services.

2.5.2 Permit Modifications and Extensions

The Contractor may request changes to the project design during the Construction phase. When these changes require modification to the drainage design or cause increased natural resource impacts, a permit modification will be required.



The Contractor is responsible for reviewing the proposed design change(s) and coordinating with the EPC on the need for agency authorization and the issuance of permit modifications. The EPC shall have the opportunity to participate in agencies discussions.

The EPC will also acquire permit extensions as needed during construction. See <u>Section 7</u> for additional details. Note that the EPC should also coordinate design changes with EMO in cases where a re-evaluation may be triggered.

2.5.3 Permit Conditions Compliance

All permit conditions must be tracked during construction to ensure compliance with the environmental permits. The Construction Project Administrator (CPA) is required to coordinate with the EPC and other designated environmental compliance staff (as assigned per each District's process) to ensure all work is completed in accordance with the permit conditions as described in the <u>Construction Project Administration Manual</u> (<u>CPAM</u>).

The Construction Project Administrator or Construction Engineering and Inspection (CEI) team will coordinate with the EPC on all pertinent information to inform the permit compliance effort. In addition, the CPA shall notify the EPC six-months prior to the permit expiration date if the project is not anticipated to be completed prior to that date. Refer to <u>Section 7.1</u> for further information regarding permit compliance and commitments tracking.

2.5.4 Project Specific Commitments

Project specific commitments must be tracked during construction to ensure compliance with the environmental document and permits. FDOT uses PSEE, and the associated Project Commitment Record (PCR), to document and track commitments. The PCR provides a record that can be used to demonstrate commitments have been fulfilled. The CPA is required to coordinate with the EPC and designated environmental compliance staff (as assigned per each District's process) to ensure all work is completed in accordance with the project specific commitments.

2.5.5 Permit Closeout

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Once a project is nearing the end of construction, the EPC, Construction Project Administrator, CEI team, and the Contractor Superintendent typically coordinate on closing out permit conditions and project commitments.

Permit conditions typically include the submittal of As-Built plans, As-Built certifications, and a request for conversion to the Operation Phase in accordance with permit obligations. This also includes conducting any final inspections with agency personnel that are required to closeout the permits.

The EPC, CPA, and CEI team must review all conditions in the issued permits, as well as any project commitments, to ensure that nothing is being overlooked. The Construction Project Administrator or CEI is responsible for submitting the permit closeout documentation to the agencies; however, the **EPC must confirm that all permit requirements have been met**, and the project documents are retained for the record.

2.6 Maintenance Phase

Permits may require post-construction maintenance activities to be conducted. If this is required, it will be documented in the permit conditions. Examples of activities that may be required for project maintenance are stormwater management facilities (ponds, swales, drainage structures) maintenance; monitoring of mitigation sites; management of invasive and exotic plant species, maintenance of structures, and mowing.



In some FDOT Districts, the Environmental Permit Coordinator is responsible for assisting with permit compliance during the Maintenance phase.

The Maintenance Office and the EPC should coordinate to ensure both parties understand what scheduling information and other pertinent details are needed to implement and track the permit conditions applicable to the Maintenance phase. See <u>Section 7</u> for more guidance regarding permit compliance during the Maintenance phase.

SECTION 3: FEDERAL PROCESSES

3.1 Overview of the Federal Environmental Permitting Processes

This section provides an overview of the federal environmental permitting programs, processes, and lists the various permitting options available to the District Environmental Permit Coordinator (EPC). A summary of these topics can be found in <u>Table 3-2</u>, and further detail for each is provided in the subsequent sections.

3.1.1 United States Coast Guard (USCG)

The USCG has jurisdiction over and administers the permitting program for bridge and causeway construction under a variety of statutes, including the *Rivers and Harbors* Act of 1899 and the *General Bridge Act* of 1946. These Acts placed the navigable waters of the United States (U.S.) under the exclusive control of the USCG to prevent any interference with the navigability of bridges or other obstructions except by the express permission of the USCG covernment. The USCG issues only one type of permit a h



the U.S. Government. The USCG issues only one type of permit, a bridge permit.

There are only two USCG district offices with jurisdiction in the State of Florida. USCG District 7 is based out of Miami and is responsible for Coast Guard activities throughout much of the state, while USCG District 8, in New Orleans, Louisiana, oversees Coast Guard activities taking place in the Florida's panhandle.

3.1.1.1 USCG Bridge Permitting

A permit from the USCG is required for the construction or alteration of bridges or causeways over navigable waters. A USCG permit provides approval of the location and engineering plans for the bridge or causeway in relation to how the project affects the public right of navigation. USCG bridge permits do not authorize bridge approaches or other dredge and fill activities separate from the bridge itself. Separate approval from the USCG is required for bridge navigational lighting and signals (33 CFR § 118). In addition, the bridge lighting plan is a separate application from the bridge permit

The FDOT District should contact the local USCG District Bridge Office when a project includes a plan to construct a new bridge or causeway or modify an existing bridge or causeway over a canal, channel, stream, river, lake, bay, or other body of water or waterway. If the District is uncertain whether a waterway is susceptible to improvement for navigation, is tidal, or is considered navigable, the appropriate USCG representative can be contacted to obtain information regarding a navigability determination. For projects under USCG District 7 jurisdiction, the USCG representative determines whether the waterway is navigable and jurisdictional and provides comments in the Environmental Screening Tool (EST) for qualifying projects or correspondence confirming the determination.

As part of USCG determination of whether a Bridge Permit is required, the New Orleans USCG District 8 requires that a *Bridge Project Questionnaire* be prepared by the District and sent to OEM Project Delivery Coordinator (PDC) to coordinate with the Federal Highway Administration (FHWA). FHWA makes a navigability determination then submits that determination and the *Bridge Project Questionnaire* to USCG for coordination. The questionnaire is prepared for bridge replacements or new bridges but is not required for bridge repairs. If the project is for bridge repairs, the District follows the guidance in the USCG October 17, 2017, letter as outlined in the <u>PD&E Manual, USCG Projects and Navigation, Part 1, Chapter 16.</u> The Miami District uses information provided to them through the Environmental Screening Tool (EST).

Regulatory Components

The USCG issues permits for bridges and causeways in or over navigable waters of the United States, and for causeway construction in all tidal waters of the United States. They are also responsible for making the navigation determination. In accordance with the USCG Bridge Program, the following definitions are applicable:

- **Navigable waters** waters subject to tidal influence, waterways with a history of substantial commercial navigation, waterways that presently have commercial navigation, waterways susceptible to commercial development, or those historically or currently used for interstate commerce.
- **Bridge** Any structure over, on, or in navigable waters of the United States used for transporting persons, vehicles, commodities, or other physical matter and providing for the passage or flow of water through or under the structure. The term bridge includes all integral bridge elements: approaches and appurtenances, regardless of the materials used, whether natural or manufactured, or the construction methodology. Types of bridges include highway bridges, railroad bridges, pedestrian bridges, aqueducts, aerial tramways and conveyors, overhead pipelines, and similar structures of the same function with their approaches, bridge protective systems, foundations, and appurtenances (integral features). The definition of bridges does not include aerial power transmission lines, submerged pipelines, and other similar structures and works unless they are integral features of a bridge used in its construction, maintenance, operation, or removal; or they are affixed to the bridge and affect the bridge clearances.
- **Causeway** A raised road of solid fill across water or marshland, constructed so that the water or marshland is on both sides of the road and there are no openings for navigation or water transfer. A raised road with any openings is a "bridge" with solid fill approaches, not a causeway. Congressional approval is required before the Coast Guard may approve a causeway.

The USCG permits the location and plans of bridges and causeways and imposes any necessary conditions relating to the construction, maintenance, and operation of these bridges in the interest of public navigation.

Minor Deviations

If a project includes modifications of existing bridges to add bicycle paths, sidewalks, or other features that do not increase vehicular capacity, even if it causes widening of the existing bridge, it results in the need for a Minor Deviation. Minor Deviations are not considered permits, though the USCG reviews and approves them.

USCG Permit Exemptions / Advanced Approval Waterways

Waterways that are not navigated other than by logs, log rafts, rowboats, canoes, and small motorboats pursuant to 33 CFR § 115.70 <u>do not</u> require a USCG Bridge Permit.

HELPFUL HINTS: The term "small motorboats" means rowboats, canoes, and other similar craft with outboard motors. It does not include sailing or cabin cruiser craft. Typically, this includes all boats smaller than 21 feet in length.

For these types of waterways, the clearances provided for high-water stages will be considered adequate to meet the reasonable needs of navigation. Bridge permit applications or information requests will be reviewed to see if the use criterion of the regulation applies per 33 CFR § 115.70, Advance approval of bridges. If it is met, the waterway is considered an "Advance Approval Waterway" and a permit is not required.

Since construction in waters exempt from a USCG permit may still require coordination with the USCG, such as approval of navigation lights and signals and timely notice to local mariners of waterway changes, the USCG should be notified whenever the proposed action may substantially affect local navigation.

USCG versus USACE Jurisdiction for Projects Involving Bridges

Bridges are delegated to the USCG, which serves as the lead federal agency under the terms of Section 9 of the *Rivers and Harbors Act* of 1899, and the *General Bridge Act* of 1946.

Under these Acts, the USCG's mission is to administer the bridge program, under which it approves the location and plans of bridges and causeways and imposes any necessary conditions relating to the construction, maintenance, and operation of these bridges in the interest of public navigation. When the USCG serves as the lead federal agency, it is also required by law to perform interagency consultation(s) with USFWS and/or NMFS for each bridge permitting decision. The rules and regulations governing the USCG bridge permit program are listed in 33 CFR Parts 114 and 115. Note that when a bridge permit is required, the USCG becomes a Cooperating Agency in FDOT's NEPA study and has certain review and concurrence responsibilities regarding the preferred bridge alternative.

For FDOT projects, USACE jurisdiction within navigable waters applies to bridge approaches, bridge abutments, shoreline stabilization, riprap, and aids to navigation, and temporary structures such as coffer dams. The USACE may evaluate potential impacts to navigable waters to ensure that the proposed activities do not affect navigation and will likely provide those comments during the project ETDM Screening. If the project is not screened, additional USACE coordination may be required. As defined in 33 CFR § 329, navigable waters are "those waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce." In Florida, these waters generally include the Atlantic Ocean, the Gulf of Mexico, bays, estuaries, rivers, and canals connected to tidal waters. This jurisdiction extends seaward to include all ocean waters within a zone of three nautical miles from the coastline (the "territorial seas"). FDOT projects that require evaluation under Section 10 of the Rivers and Harbors Act include bridges, shoreline stabilization (including seawalls, riprap, revetment, and bulkhead), and causeways. During the ETDM screening both USCG and USACE comment on jurisdiction within navigable waters therefore this information may be found in the PD&E documents.

Note that while the USACE jurisdiction covers bridge abutments and other in-water structures, the USCG bridge permit authorizes the actual bridge construction or bridge modifications to ensure adequate horizontal/vertical clearances and bridge lighting for navigation. Both agencies should be consulted for any project involving bridges over waterways, to determine agency jurisdiction.

3.1.2 United States Army Corps of Engineers (USACE)

Federal environmental permitting has existed since the *Rivers and Harbors Act* of 1899. Section 10 of the Act grants the USACE jurisdictional authority over "structures or works in or affecting a navigable water of the United States (WOTUS)." In addition, federal protection of wetlands commenced with the passage of the *Clean Water Act* of 1969 (CWA). Section 404 of the CWA



regulates the dredging and filling of wetlands and WOTUS, and it has been historically administered by the USACE. These permits are commonly referred to as "dredge and fill permits," "404 permits," and/or "Corps permits". Specific regulations that affect the type of federal permitting required are discussed below.

What is WOTUS?

Waters of the United States provides jurisdiction over waterbodies that Congress intended to protect under the Clean Water Act, including traditional navigable waters (e.g., certain large rivers and lakes), territorial seas, and interstate waters (see <u>Table 3-1</u>). For upstream waters that may significantly affect the integrity of downstream waters that Congress intended to protect, the rule provides a reasonable approach that recognizes regional and geographic differences. The rule accounts for regional differences in waters because regionally tailored implementation tools as well as local and regional conditions help determine whether waters are covered under this rule.

TYPES OF WATERS	FEATURES
Traditional Navigable Waters (a)(1)	Large rivers and lakes that could be used in interstate or foreign commerce, as well as waterbodies affected by tides.
Territorial Seas (a)(1)	Territorial seas that extend three miles out to sea from the coast.
Interstate Waters (a)(1)	Includes waters like streams or lakes that cross or form part of state boundaries.
Impoundments (a)(2)	Impounded bodies of water created in or from WOTUS like reservoirs and beaver ponds.
Tributaries (a)(3)	Branches of creeks, streams, rivers, lakes, ponds, ditches, and impoundments that ultimately flow into traditional navigable waters, the territorial seas, interstate waters, or impoundments of jurisdictional waters. Tributaries are jurisdictional if they meet the relatively permanent standard.
Adjacent Wetlands(a)(4)	These wetlands can be next to, abutting, or near other jurisdictional waters or behind certain natural or constructed features. They are most often within a few hundred feet of jurisdictional waters. Adjacent wetlands are jurisdictional if they meet the relatively permanent standard, or where the wetland is adjacent to a traditional navigable water, the territorial seas, or an interstate water.
Additional Waters (a)(5)	These lakes or ponds do not fit into the above categories. They are jurisdictional if they meet the relatively permanent standard.

Table 3-1 Categories of "Water of the United States"*

* Per EPA, Fact Sheet for the Final Rule: Amendments to the Revised Definition of "Waters of the United States," August 2023.

To determine jurisdiction for tributaries, adjacent wetlands, and additional waters, the final rules rely on two standards. Waters are jurisdictional if they meet...

• **Relatively Permanent** - To meet the relatively permanent standard, the waterbodies must be relatively permanent, standing, or continuously flowing waters connected to paragraph (a)(1) waters or waters with a continuous surface connection to such relatively permanent waters or to paragraph (a)(1) waters.

Exclusions from "Waters of the United States"

The agencies' definition of "waters of the United States" does not affect the longstanding activity-based permitting exemptions provided to the agricultural community by the Clean Water Act. Additionally, the final rule codifies eight exclusions from the definition of "waters of the United States" in the regulatory text to provide clarity, consistency, and certainty to a broad range of stakeholders. The exclusions are:

- Prior converted cropland, adopting USDA's definition and generally excluding wetlands that were converted to cropland prior to December 23, 1985
- Waste treatment systems, including treatment ponds or lagoons that are designed to meet the requirements of the Clean Water Act.
- Ditches (including roadside ditches), excavated wholly in and draining only dry land, and that do not carry a relatively permanent flow of water.
- Artificially irrigated areas, that would revert to dry land if the irrigation ceased.
- Artificial lakes or ponds, created by excavating or diking dry land that are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing.
- Artificial reflecting pools or swimming pools, and other small ornamental bodies of water created by excavating or diking dry land.
- Waterfilled depressions, created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction operation is abandoned and the resulting body of water meets the definition of "waters of the United States."
- Swales and erosional features (e.g., gullies, small washes), that are characterized by low volume, infrequent, or short duration flow.

Discharge of Fill Material

The term discharge of fill material as defined in 40 C.F.R. § 232.2 means the addition of fill material into WOTUS. The term generally includes the following activities - placement of fill that is necessary for the construction of any structure or infrastructure in a WOTUS; the building of any structure, infrastructure, or impoundment requiring rock, sand, dirt, or other material for its construction; site development fills for recreational, industrial, commercial, residential, or other uses; causeways or road fills; dams and dikes; artificial islands; property protection and/or reclamation devices such as riprap, groins, seawalls, breakwaters, and revetments; levees; fill for structures such as intake and outfall pipes associated with subaqueous utility lines; placement of fill material for construction or maintenance of any liner, berm, or other infrastructure.

In addition, in certain circumstances, the placement of pilings in waters of the United States constitutes a discharge of fill material and requires a Section 404 permit when such placement has or would have the effect of a discharge of fill material. Examples of such activities that have the effect of a discharge of fill material include, but are not limited to, the following: projects where the pilings are so closely spaced that sedimentation rates would be increased; projects in which the pilings themselves effectively would replace the bottom of a waterbody; projects involving the placement of pilings that would reduce the reach or impair the flow or circulation of WOTUS; and projects involving the placement of pilings which would result in the adverse alteration or elimination of aquatic functions.

Pilings are <u>not</u> fill when –

- placement of pilings in waters of the United States that does not have or would not have the effect of a discharge of fill material shall not require a Section 404 permit;
- (ii) placement of pilings for linear projects, such as bridges, elevated walkways, and powerline structures, generally does not have the effect of a discharge of fill material; and,
- (iii) placement of pilings in WOTUS for piers and wharves generally does not have the effect of a discharge of fill material. However, all pilings placed in the navigable WOTUS, as that term is defined in 33 CFR part 329, require authorization under Section 10 of the *Rivers and Harbors Act* of 1899 (see 33 CFR part 322).

USACE Regulatory Offices

USACE reviewers are assigned to specified FDOT Districts to efficiently address permitting review process. Projects not in ETDM are covered under an Agency Operating and Funding Agreement (AOFA) between FDOT, FHWA, and USACE. Reviewers have been designated for the FDOT Districts and through the AOFA can – (1) review and comment on alternatives and analysis relative to the public interest determination; (2) coordinate regarding potential impacts, avoidance and minimization recommendations, Best Management Practices (BMPs) and opportunities for mitigation; (3) review, comment, and/or provide recommendations from appropriate agency specialists on relevant technical reports; (4) review and comment on environmental documents, specifically identifying potential jurisdictional and permit issues within regulatory authority; and (5) consult on project impact determinations to assure compliance with the various types of environmental documentation.

3.1.3 Lead Federal Permitting Agency

The lead federal permitting agency can be either the USACE or the USCG depending on the type of project, or occasionally USFWS (Section 10 of the ESA, see <u>Section 5.5</u>) if no wetlands or bridge permit is required. USACE Section 404 permits are required for proposed dredging and/or filling impacts to jurisdictional wetlands. The lead permitting agency is responsible for reviewing the application, sending out copies to other federal reviewing/commenting agencies, assembling the agency comments, coordinating with FDOT, and issuing the final decision.

Table 3-2 Federal Jurisdictional Responsibilities and Authorities

CATEGORY	FEDERAL							
Lead Permitting	USCG	Bridge and causeway construction						
Agencies	USACE	Structures or works in or affecting a navigable water; Dredge & Fill						
	USFWS	Listed Species & Critical Habitat						
Reviewing Agencies	NMFS	Protected Resources Division - Aquatic Listed Species & Critical Habitat						
	NMFS	Habitat Conservation Division - Essential Fish Habitat (EFH)						
	EPA	Water Quality						
Protected Species & Habitat Conservation	Marine I	ered Species Act (ESA) Mammal Protection Act (MMPA) on-Stevens Fishery Conservation and Management Act						
Wetland Jurisdiction & Delineation	1987 We 2010: At Florida H Nationa	Section 404 / Dredge & Fill - 1987 Wetlands Delineation Manual, Regional Supplement (Version 2.0) 2010: Atlantic and Gulf Coast Region, Florida Hydric Soils List, National List of Plant Species that Occur in Wetlands, Prior converted croplands (NRCS)						
Mitigation	Compe	Compensatory Mitigation Rule (2008)						
Stormwater Treatment/Drainage	Primarily	related to water quality as required in the 404(b)(1) guidelines						
Water Quality	Evaluate (CWA)	ed by EPA as part of 404(b)(1) Guidelines of Clean Water Act						
Wetland & Surface Water Impacts	Minimizo	ation and Avoidance Analysis covered in 404(b)(1) Guidelines						
Navigation		nt by USCG, Guidance for Structures Along Federal Channels						
Bridges	accordo	ly reviewed under USCG Bridge Permitting Program in ance with Section 9 of the Rivers and Harbors Act of 1899 and eral Bridge Act of 1946						
Canals	33 U.S.C	. 408 Approval						
Pollution Control	Delegat	ed to FDEP						
Hazardous Waste	Evaluate	luated by EPA as part of 404(b)(1) Guidelines						
Special Designations	Rivers, N	al Marine Sanctuaries, National Parks, National Wild & Scenic National Seashores, Aquatic Resources of National Importance 3), America's Scenic Byways						
Dewatering	Delegat	ed to FDEP						

3.2 Federal Permit Thresholds and Criteria

3.2.1 Federal Permitting Thresholds

In general, dredging and/or filling impacts (Section 404) to wetlands that are considered WOTUS will require authorization from the USACE

For any proposed bridge or causeway across a navigable WOTUS, the FDOT should identify the USCG, by agreement, as a cooperating agency and apply for a USCG bridge permit. This includes all temporary bridges used for construction access or traffic detours.

A bridge permit is necessary for any of the following:

- 1. The construction of a new bridge or causeway over navigable waters
- 2. The modification of an existing bridge or causeway that increases the travel capacity of the bridge/causeway (i.e., adding a travel lane)
- 3. The modification of an existing bridge/causeway that would result in changes to navigation (i.e., changes to the horizontal or vertical clearances, fender systems, etc.).

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NOTE: The USCG has the responsibility to determine whether a USCG permit is required for the improvement or construction of a bridge over navigable waters, and to approve the bridge location, alignment, and appropriate navigational clearances in all bridge permit applications.

A permit from the USCG is not required for the following activities:

- 1. Construction of bridges crossing non-tidal waters NOT presently used as or susceptible to use as a means of transporting interstate or foreign commerce (see 33 U.S.C. § 525(b)).
- 2. Removal of an existing bridge with no replacement.

For projects requiring a PD&E Study, the need for a federal permit should be identified at this stage once the project scope has been established. This will help determine if the USACE or USCG should serve as a cooperating agency for the project, as well as allow for early coordination. Additionally, once the need for a USACE or USCG permit has been identified, the project team can begin to analyze which avoidance and minimization measures may be feasible for the project.

3.3 United States Army Corps of Engineers (USACE) Permits (Federal)

The USACE is responsible for the regulation of dredging activities and the placement of fill within wetlands and Waters of the United States (WOTUS). It is recommended that for complex projects a pre-application meeting be scheduled with the appropriate USACE ETAT representative to confirm the type of permit process the project will require, as defined under 33 CFR §



325.1 (b). A pre-application form and proposed plans may be required to be submitted as part of the pre-application request.

During the pre-application process, or through the Water Management District and USACE permitting joint "huddle meetings" / Interagency Meetings, permit applicants provide an overview of the project purpose and need, design, potential impacts, and

avoidance and minimization efforts. Agency staff ask questions and provide general guidance on the permitting application process and anticipated requirements.

If it is determined that a permit would not be required, a request may be made for the USACE to issue a "No Permit Required Letter". A determination would be made based on one or more of the following (<u>USACE Source Book</u>):

- A proposed project will not require a USACE permit if it is not located within the navigable waters. Or if it will not involve the discharge of dredged or fill material into WOTUS.
- A project as proposed will not require a USACE if it is considered a bridge and, therefore, is under the regulatory jurisdiction of the U.S. Coast Guard.
- A project will not require a USACE permit if the activity itself is not regulated. Examples of non-regulated activities may include work in uplands or nonregulated wetlands, as well as some piling supported structures and some excavation activities.

A No Permit Required determination by the USACE:

- Does not obviate the requirement to obtain any other Federal, State, or local permits which may be necessary.
- Does not constitute a federal evaluation of possible impacts to species protected under the ESA. Projects that have the potential to impact federally listed species should contact the USFWS.
- Does not constitute a federal evaluation of possible impacts to historic resources protected under Section 106 of the Natural Historic Preservation Act. Projects that have the potential to impact historic sites should contact the State Historic Preservation Officer in Tallahassee.
- Reflect current policy and regulations and are usually valid for a period of no longer than five years from the date of the letter unless new information warrants a revision of the determination before the expiration date. If after the five-year period, USACE has not specifically revalidated the determination, it will automatically expire. Any reliance upon a determination beyond the expiration date may lead to possible violation of current federal laws and/or regulation.

If it is determined that a permit is required, the USACE may consider processing the proposed project activities under two main categories: General Permit (GP) or Individual Permit (IP). Under the GP, activities may be processed as a Nationwide Permit (NWP), Regional General Permit, or Programmatic General Permit.

The General Permits and NWPs usually involve minor impacts which must not cause the loss greater than 0.5 acres of WOTUS. Typically, GPs take approximately 60 calendar days to issue by the USACE once the application has been deemed complete and (if applicable) consultation obtained from the appropriate regulatory agency as defined under 33 CFR § 325.2 (d)(3). Under this type of permit there is <u>no</u> Public Notice required to be published or Coordination Letter issued to the neighboring properties advising of the proposed activities.

Individual Permits involve Letters of Permission (LOP) or Standard Permits (SP) and are typically issued within 120 calendar days by the USACE once the application has been deemed complete. If consultation is in progress, periodic updates may be requested from the District USACE representative on the status of the consultation (i.e., NMFS, FWS, SHPO) review. For federal projects under NEPA assignment, FDOT completes ESA consultation when required. Note that when consultation (i.e., NMFS, FWS, SHPO, Tribes) is required, it may prolong the USACE permit review period from 6 months to 1 year for GP's and from 9 months to over 1 year for Individual Permits, depending on the complexity of the project.

For LOPs the USACE is required to issue a Coordination Letter with the proposed plans to state, federal agencies and neighboring properties advising of the proposed construction activities. The comment period is limited to 15 calendar days. SP's require the USACE to publish a Public Notice with the proposed plans. The comment period will range between 15 to 30 calendar days per 33 CFR § 325.2 (d)(2). Comments received will be evaluated by the assigned USACE Project Manager and determined if a formal response needs to be made to address concerns. FDOT may be requested by USACE to assist in responding to any comments received. Note that comments received will be made part of the administrative record for the project.



HELPFUL HINTS: The USACE Source Book provides a detailed guide to the Permitting Process. It can be obtained online at -<u>www.saj.usace.army.mil/Missions/Regulatory/Source-Book/.</u>

3.3.1 Nationwide Permit (NWP)

The Nationwide Permit (NWP) is defined under 33 CFR § 330.1 (b) and is used for projects with relatively minor impacts. An environmental impact review is conducted to ensure there are no significant impacts to listed species, critical habitat, and cultural or tribal resources. If these resources are present within the project area, coordination may be required with the appropriate agency (i.e., NMFS/USFWS/SHPO). However, if consultation is not required with any other agency, the reduced level of federal coordination provides a more reasonable timeframe for permit issuance. Some NWPs also require a Water Quality Certification (see <u>Section 4.7.5</u>).

There are currently 57 NWPs, which are typically re-issued by USACE every five years. On December 27, 2021, the USACE published a set of 41 NWPs that were reissued and one new NWP which authorize work in streams, wetlands and other waters of the United States under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act of 1899. Each NWP defines a series of impact thresholds as specified in the rules, and the USACE maintains a helpful website for <u>NWP information</u>. The <u>USACE Jacksonville District</u> <u>Source Book</u> should be consulted routinely when considering the use of an NWP.

It is recommended to submit an application package to the USACE, and request that the USACE concur with the determination that the project is consistent with the thresholds

associated with a given NWP. As noted below, some NWPs require Pre-Construction Notification (PCN), even though the NWP did not require review or approval from USACE.

There are certain NWPs that require a PCN to be submitted in writing prior to project construction due to variability in the degree of potential impacts for a given type of work. The following information is typically required for a PCN to be considered complete:

- 1. Contact information of the prospective permittee
- 2. Project location
- 3. Identification of which NWP(s) the prospective permittee would like to use
- 4. Project description and purpose, anticipated adverse environmental effects, proposed mitigation measures, and any other permits needed
- 5. Delineation of wetlands and any other water bodies located in the project area
- 6. Discussion of mitigation options if wetland impacts are anticipated to be greater than 1/10-acre
- 7. Documentation of which threatened and endangered species and critical habitats might be affected
- 8. Documentation of any NRHP listed or eligible cultural resources that may be affected
- 9. Identification of Wild and Scenic Rivers, if applicable
- 10. Documentation of the written request for Section 408 permission from the appropriate USACE office, if applicable

Where applicable, the PCN must be submitted in writing as early as possible prior to commencing the proposed activity, and it requires a 45-day review period. The 45-day period starts on the notification's date of receipt in the USACE district office. The prospective permittee may not proceed with the proposed activity before expiration of the 45-day period, unless otherwise notified by the USACE.

Note that NWPs are valid for 5 years. The USACE typically may grant an additional 12 months from the expiration date of the NWP as long as the project is under contract to commence. However, if the project design changes after the permit is granted, a new application will be required to be submitted to the USACE.

The following NWPs may be applicable to FDOT Projects: (Note that more than one type of NWP may apply to a project due to the proposed construction activities, and some are used more frequently than others):

NATIONWIDE PERMIT	STATUTORY AUTHORITY	LIMITS	PRE- CONSTRUCTION NOTIFICATION (PCN) THRESHOLD	DELINEATION REQUIREMENT	APPLICABLE WATERS	CHANGES	OTHER INFORMATION
NWP 1 - Aids to Navigation	10	none	PCN not required	no	navigable waters	none	Examples include channel markers associated with bridges over a Federal Channel
NWP 2- Structures in Artificial Canals	10	none	PCN not required	no	navigable waters	none	Examples include headwalls for outfall structures in canals.
NWP 3 - Maintenance	10/404						Applies to many road project activities including replacement of bridge pilings; replacement of fender systems; repairs to roads damaged by storms; etc.
(a) Repair, rehabilitation, or replacement of previously authorized, currently serviceable structures or fills		authorizes only minor deviations for maintenance	PCN not required	no	all waters	Authorizes the repair, rehabilitation, or replacement of any currently serviceable structure or fill that did not require a permit at the time it was constructed. Authorize new or additional riprap to protect the structure or fill.	Does not authorize maintenance dredging for the primary purpose of navigation; beach restoration; or new stream channelization or stream relocation projects. Limits stream channel modification to the minimum necessary for the maintenance activity.
(b) Discharges associated with removal of accumulated sediments and debris in the vicinity of existing structures, including intake and outfall structures and associated canals		200-feet from structure; minimum necessary to restore capacity intake or outfall or associated canal	all activities	yes	all waters		

NATIONWIDE PERMIT	STATUTORY AUTHORITY	LIMITS	PRE- CONSTRUCTION NOTIFICATION (PCN) THRESHOLD	DELINEATION REQUIREMENT	APPLICABLE WATERS	CHANGES	OTHER INFORMATION
c) Temporary structures, fills, and work necessary to conduct maintenance activity			PCN not required	no	all waters	none	Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations.
NWP 5 - – Scientific Measurement Devices	10/404	25 cubic yards for weirs and flumes	PCN not required	no	all water	none	Devices and any associated structures if fills be removed upon completion of the use and restored to pre-construction elevations to maximum extent practicable. This NWP is applicable to rain gauges in mitigation areas.
NWP-6 – Survey Activities	10/404	1/10-acre	PCN not required	no	all water	none	Does not authorize fills for roads. Does not authorize permanent structures. Does not authorize fill associated with recovery of historic properties. Backfilling of exploratory trenches must not drain a water of the U.S. This NWP is useful for geotechnical borings in wetlands or surface waters where sub-surface information is required for designing structures such as bridges or for establishing subsurface conditions for roads.
NWP 7 – Outfall Structures and Associated Intake Structures	10/404	none	all activities	yes	all waters of the U.S.	none	Activity must comply with National Pollutant Discharge Elimination System Program. This NWP includes stormwater outfall structures that discharge into Waters of the U.S.

NATIONWIDE PERMIT	STATUTORY AUTHORITY	LIMITS	PRE- CONSTRUCTION NOTIFICATION (PCN) THRESHOLD	DELINEATION REQUIREMENT	APPLICABLE WATERS	CHANGES	OTHER INFORMATION
NWP 12 – Oil or Natural Gas Pipeline Activities	10/404	½ acre	A section 10 permit is required; discharges that result in the loss of >1/10 acre; new oil or natural gas pipeline greater than 250 miles in length	yes, if PCN required	See text of NWP	Limited to oil or natural gas pipeline activities. Remove PCN requirements for (a) activities that involve mechanized land clearing in a forested wetland for the utility line right-of-way; (b) utility lines in WOTUS, excluding overhead lines, that exceed 500 feet; (c) utility lines placed within a jurisdictional area (i.e., WOTUS), that run parallel to or along a stream bed that is within that jurisdictional area; (d) permanent access roads constructed above the grade in WOTUS for a distance of more than 500 feet; or (e) permanent access roads are constructed in WOTUS with impervious materials. Add PCN requirement for new oil or natural gas pipelines more than 250 miles in length.	Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. This NWP can include fiber optic cable for operation of road signs. Although not directly applicable to FDOT, this NWP is routinely used for relocation of utilities within FDOT ROW.

NATIONWIDE PERMIT	STATUTORY AUTHORITY	LIMITS	PRE- CONSTRUCTION NOTIFICATION (PCN) THRESHOLD	DELINEATION REQUIREMENT	APPLICABLE WATERS	CHANGES	OTHER INFORMATION
Oil and natural gas pipelines					all waters	Remove Note requiring district engineer to send copy of PCN and NWP verification letter to Department of Defence Siting Clearinghouse	Must restore area to pre- construction contours.
Access Roads					non-tidal waters of the U.S., except non-tidal wetlands adjacent to tidal waters		Access roads must be constructed to minimize adverse effects to waters of the U.S.
NWP 13 – Bank Stabilization	10/404	500 feet along the bank (unless waived by DE – waivers for bulkheads limited to 1,000 linear feet along the shore); 1 cubic yard per running foot (unless waived by DE)	>500 linear feet in length; >1 cubic yard per running foot, as measured along the treated bank, below OHWM or HTL; discharges into special aquatic sites	yes, if PCN required	all waters	Add Note stating that in coastal waters and the Great Lakes, living shorelines authorized by NWP 54 may be an appropriate form of bank stabilization.	Activity cannot impair surface water flow into or out of waters of the U.S. Temporary fills must be removed in their entirety and the affected areas returned to pre- construction elevations. Native plant species appropriate for site conditions, including salinity, must be used for bioengineering or vegetative bank stabilization. This NWP is used for stabilizing canal banks or to place riprap in front of (waterward) of seawalls.

NATIONWIDE PERMIT	STATUTORY AUTHORITY	LIMITS	PRE- CONSTRUCTION NOTIFICATION (PCN) THRESHOLD	DELINEATION REQUIREMENT	APPLICABLE WATERS	CHANGES	OTHER INFORMATION
NWP 14 – Linear Transportation Projects	10/404	1/2 acre in non- tidal waters; 1/3 acre in tidal waters	>1/10 acre; discharges into special aquatic sites	yes, if PCN required	all waters	Add "driveways" to list of examples of linear transportation projects.	Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. Does not authorize storage buildings, parking lots, train stations, aircraft hangars, or other non-linear transportation features.
NWP 15 – U.S. Coast Guard Approved Bridges	404	none	PCN not required	no	navigable waters	none	Causeways and approach fills for bridges are not authorized by this NWP; those activities require separate Section 404 authorization. Bridge structures can be authorized by Section 9 of the Rivers and Harbors Act or other applicable laws.
NWP 18 - Minor Discharges	10/404	25 cubic yards discharged below plane of OHWM/HTL; 1/10 acre of waters of the U.S.	>10 cubic yards discharged below plane of OHWM/HTL; discharges into special aquatic sites	yes, if PCN required	all waters	none	Does not authorize discharges for stream diversions.
NWP 19 – Minor Dredging	10/404	50 cubic yards below plane of OHWM/ MHWM	PCN not required	no	navigable waters	Increase limit to 50 cubic yards.	Does not authorize dredging or degradation through siltation of coral reefs, submerged aquatic vegetation beds, anadromous fish spawning areas, or wetlands. Does not authorize the connection of canals to navigable waters

NATIONWIDE PERMIT	STATUTORY AUTHORITY	LIMITS	PRE- CONSTRUCTION NOTIFICATION (PCN) THRESHOLD	DELINEATION REQUIREMENT	APPLICABLE WATERS	CHANGES	OTHER INFORMATION
NWP 23 – Approved Categorical Exclusions	10/404	none	PCN not required, except for certain activities identified in RGL 05-07	yes, if PCN required	all waters	none	Does not authorize maintenance dredging, shoal removal, or riverbank snagging. Disposal of removed vessel in waters of the U.S. may require separate authorizations from EPA and Corps.
NWP 25 – Structural Discharges	404	none	PCN not required	no	Waters of the U.S.	none	Structure may require a section 10 permit if located in navigable waters of the U.S. Does not authorize structures that support buildings or similar structures.
NWP 27 – Aquatic Habitat Restoration, Enhancement, and Establishment Activities	10/404	none	all activities, except for those that require reporting (e.g., activities under a binding agreement between the landowner and an agency)	yes, if PCN required	all waters	Add "releasing sediment from reservoirs to restore or sustain downstream habitat" and "coral restoration or relocation" to the list of examples of activities authorized by this NWP. No PCN required for activities conducted in accordance with the terms and conditions of a binding coral restoration or relocation agreement between the project proponent and the NMFS or any of its designated state cooperating agencies.	Does not authorize stream channelization. Does not authorize relocation or conversion of tidal waters. Does not authorize conversion of natural wetlands or streams, except for relocation activities. Compensatory mitigation is not required for NWP 27 activities.

NATIONWIDE PERMIT	STATUTORY AUTHORITY	LIMITS	PRE- CONSTRUCTION NOTIFICATION (PCN) THRESHOLD	DELINEATION REQUIREMENT	APPLICABLE WATERS	CHANGES	OTHER INFORMATION
NWP 31 – Maintenance of Existing Flood Control Facilities	10/404	maintenance baseline approved by district engineer	all activities	yes	all waters	none	PCN must indicate location of sites for disposal of dredged or excavated material and baseline information. Authorizes the removal of vegetation from levees associated with a flood control project, if Corps permits are required for those activities.
NWP 33 – Temporary Construction, Access, and Dewatering	10/404	none	all activities in navigable (i.e., section 10) waters	yes	all waters	none	Associated primary activity must be authorized by Corps or U.S. Coast Guard, or be exempt from permit requirements. PCN must include restoration plan.
NWP 36 – Boat Ramps	10/404	50 cubic yards, unless waived by DE; 20-foot width, unless waived by DE	>50 cubic yards; >20 feet wide	yes, if PCN required	all waters., except special aquatic sites	none	Section 10 permit required if dredging navigable water is necessary for access to boat ramp. No placement of material in special aquatic sites.
NWP 38 – Clean-up of Hazardous and Toxic Waste	10/404	none	all activities	yes	all waters	none	Does not authorize the establishment of new disposal sites or the expansion of existing disposal sites.
NWP 41 – Reshaping Existing Drainage and Irrigation Ditches	404	none	PCN not required	no	non-tidal waters of the U.S., except non-tidal wetlands adjacent to tidal waters	Add irrigation ditches.	Reshaping drainage ditch cannot increase capacity of ditch or drain additional waters of the U.S. Does not authorize relocation of drainage ditches constructed in waters of the U.S.

NATIONWIDE PERMIT	STATUTORY AUTHORITY	LIMITS	PRE- CONSTRUCTION NOTIFICATION (PCN) THRESHOLD	DELINEATION REQUIREMENT	APPLICABLE WATERS	CHANGES	OTHER INFORMATION
NWP 42 – Recreational Facilities	404	½ acre	all activities	yes	non-tidal waters of the U.S., except non-tidal wetlands adjacent to tidal waters	Remove the 300 linear foot limit for losses of stream bed. Remove waiver provision.	Authorizes variety of recreation facilities, except for hotels, restaurants, racetracks, stadiums, arenas, or similar facilities (these may be authorized by NWP 39)
NWP 43 – Stormwater Management Facilities	404	½ acre	all activities involving expansion or construction of SWM facilities	yes, if PCN required	non-tidal waters of the U.S., except non-tidal wetland	Remove the 300 linear foot limit for losses of stream bed. Remove waiver provision.	Does not authorize construction of new stormwater management facilities in perennial streams. Maintenance does not require PCN if limited to restoring original design capacities. Also authorizes low impact development integrated management features and pollutant reduction green infrastructure features.
NWP 46 – Discharges in Ditches	404	1 acre	all activities	yes	certain types of non-tidal ditches constructed in uplands and determined to be waters of the U.S.	none	NWP does not authorize discharges into ditches constructed in streams or other waters of the uplands and determined to be waters of the U.S., or in streams that have been relocated in uplands.

3.3.2 Regional General Permit

The term "regional general permit" refers to a USACE general permit authorization that is issued on a regional basis for a category of activities that cause only minimal individual and cumulative impacts as defined under 33 CFR § 322(f). The only Regional General Permit applicable to FDOT projects is SAJ-92, Linear Transportation Projects. GP permits may not be modified.

Permits are valid for 5 years. Extensions cannot be granted however, if the permit is received prior to the expiration date, the permittee has an additional year to complete the work provided the work has commenced or is under contract. If the project design changes after the permit is granted, a new application will be required to be submitted to the USACE.

SAJ-92, Linear Transportation Projects

This general permit applies to projects with a Federal Highway Administration (FHWA) and/or Florida Department of Transportation (FDOT) approved Environmental Document [Categorical Exclusion (CE), Environmental Assessment (EA), Environmental Impact Statement (EIS), or State Environmental Impact Report (SEIR)] where dredge and fill impacts do not result in the loss of greater than a total of 0.5 acre of tidal impacts to waters of the United States (wetlands, surface waters and navigable waters) for the entire project, and 5.0 acres of non-tidal impacts to waters of the United States (wetlands, surface waters and navigable waters) for any 1-mile segment of roadway length as measured from the beginning of the project, up to a maximum loss of 50 acres of waters of the United States per project. This authorization includes Florida's Turnpike Enterprise (Enterprise) or other qualifying entity projects with approved state Environmental Documents. Indirect (secondary) impacts associated with projects authorized under this RGP shall be assessed, however, indirect impact acreages will not count toward the impact acreage limits (0.5-acre total tidal impacts per project, and 5.0 acres non-tidal impacts/1-mile for 50 acres total tidal plus nontidal impacts per project) within this RGP. This RGP does not authorize construction of a new alignment (non-existing roadway). All projects authorized by this permit must be located within the geographic boundaries of FDOT and Enterprise.

The <u>SAJ-92 permit</u> was issued on October 27, 2020 and remains valid through October 26, 2025. The standard review requirements for the SAJ-92 permit include 30 special conditions. These conditions should be reviewed and understood to confirm if the SAJ-92 permit is applicable to the project.

Programmatic General Permit

A Programmatic Permit is a type of General Permit that is delegated to the State of Florida by the USACE and is designed to avoid duplication between agencies (see **Regional General Permits Appendix**). The State Programmatic General Permit (SPGP)VI-R1 is also referred to as SPGP. The USACE Jacksonville District has an agreement with the State which authorizes the FDEP or designee to administer SPGP permitting on behalf of the USACE. The current version of the SPGP was issued on July 27, 2021 and expires on July 27, 2026. The purpose of the SPGP is to reduce the duplication of permitting effort between the USACE and FDEP.

Most activities authorized under the SPGP are for minor actions that are currently authorized by existing USACE Nationwide and Regional General Permits. The implementation of the SPGP eliminates the need for separate approval from the USACE for minor work located in <u>WOTUS</u>, including navigable waters, when that work is authorized by the FDEP or other delegated agency. Typically, the FDEP can issue an SPGP within 30 calendar days after they have received all of the required information and deemed the file complete. Once the permit is granted, it is valid until the SPGP expiration date of July 27, 2026.

Note that in the Florida Keys the SPGP can only be used for boat lifts.

Other agencies that have received this delegated permitting authority from the USACE include the Southwest Florida Water Management District (SWFWMD) and SJRWMD. The types of FDOT road projects eligible for authorization under the SPGP process are limited and include shoreline stabilization and the relocation of utility lines.

HELPFUL HINTS: See the current SPGP (<u>SPGP VI-R1</u>) or learn more about Regional General Permits in the Specialty Permits Appendix.

3.3.3 Letter of Permission

A Letter of Permission is a type of Individual Permit as defined under 33 CFR § 322(d). This type of permit is used for minor projects with impacts to Waters of the United States. The impacts permitted through this process are not significant enough to go through the full Standard Permitting Process but are slightly more significant than the impacts allowed under an NWP or Regional General Permit. The applicable criteria for LOPs can be found in the <u>Source Book</u> on the USACE Jacksonville District Regulatory website. In general, the USACE reviewer is responsible for determining if a project is eligible for a LOP. The LOP process is most used by FDOT for minor bridge repair projects in the Florida Keys that require the use of temporary structures during construction.

As with the Federal Standard Permit process, LOP coordination with federal and state wildlife agencies is required under the Fish and Wildlife Coordination Act (FWCA). As noted in <u>Section 3.3</u>, under an LOP, the USACE will prepare and submit a Coordination Letter to the state and federal agencies, as well as any adjacent property owners summarizing the proposed activities, which is comprised of a 15-day comment period. After the 15-day comment period the USACE may issue an email or letter outlining the additional information needed to complete the file that may incorporate comments received. Once all the required information is provided and the file deemed complete, the USACE typically may issue the permit within 120 calendar days unless consultation

needs to be conducted with an appropriate regulatory agency or agencies. In such case, the timeframe for permit issuance can be prolonged until the consultation is complete. This process may take 9 months to over 1 year, depending on the complexity of the project. If the project design changed after the permit is granted, a permit modification request may be submitted to the USACE before the permit expiration date.

3.3.4 Standard Permit

A Standard Permit, commonly referred to as an "Individual Permit" is required when a proposed project does not meet the criteria to qualify for a NWP, GP or LOP. These permits are required for more complex projects with wetland and WOTUS impacts that exceed the thresholds of Nationwide or General Permits. SP's require the USACE to publish a Public Notice with the proposed plans. The comment period is typically 21 calendar days per 33 CFR § 325.2 (d)(2). Comments received will be evaluated by the assigned USACE Project Manager and determined if a formal response needs to be made to address concerns. Note that comments received will be made part of the administrative record for the project. After the 21-day comment period the USACE may issue an email or letter outlining the additional information required to complete the file that may incorporate comments received. Once all the required information is provided and file deemed complete, the USACE typically may issue the permit within 120 calendar days unless consultation needs to be conducted with a regulatory agency or agencies. In such case, the timeframe for permit issuance can be prolonged until the consultation is complete. As noted in <u>Section 3.3</u> this process may take 9 months to over 1 year, depending on the complexity of the project. Note that this permit is valid for 5 years and the USACE typically may grant an additional 12 months from the expiration date of the SP if the project is under contract to commence. If the project design changed after the permit is granted, a permit modification request may be submitted to the USACE before the permit expiration date.

3.3.5 Emergency Permit

The USACE addresses the permitting process for emergency situations in its regulations under 33 CFR § 325.2(e) (4). The USACE regulations define an "emergency" as "a situation which would result in an unacceptable hazard to life, a significant loss of property, or an immediate, unforeseen, and significant economic hardship if corrective action requiring a permit is not undertaken within a period less than the normal time needed to process the application under standard procedures."

In emergency situations, USACE Division Engineers, in coordination with the USACE District Engineers, are authorized to approve special processing procedures to expedite permit issuance. The USACE also uses alternative permitting procedures, such as GP's and LOP's, when appropriate, to expedite processing of permit applications for emergencies.

Situations requiring emergency permits may include emergencies due to a natural disaster (e.g., flood, hurricane, earthquake, etc.) or a catastrophic (sudden and complete) failure of a facility due to an external cause (e.g., a bridge collapse after

being struck by a barge). The NWPs for repairs to existing structures (NWP 3) can be used under the emergency permit time-period to repair damages caused by these unforeseen events. The USACE will generally notice alternative permitting during Storm Events. Even in an emergency, reasonable efforts will be made by USACE to receive comments from interested federal, state, and local agencies and the affected public [33 CFR 325.2(e)(4)]. Notice of any special procedures authorized and their rationale is to be appropriately published as soon as practicable.

3.3.6 Section 408 Review

FDOT is required to obtain Section 408 USACE permission when an FDOT project is proposed to alter existing federal flood control projects (i.e., levees, dams, and canals). This process is required for bridge projects over canals in Central and South Florida that are associated with flood control projects in the Everglades. This permit process is typically handled as part of the Right of Way (ROW) Occupancy permit process through the WMDs who serve USACE as their Local Sponsor (also referred to as a non-federal sponsor); however, in some unique circumstances it can be submitted to USACE directly. Once an application for a ROW Occupancy Permit has been deemed complete, including submission of any information required for the USACE to perform the Section 408 review, the WMD will submit a copy of the application and supporting documents to the USACE. The Section 408 review for minor alterations requires 2-3 months to complete but may take longer depending on the complexity of the project. When the approval is granted or if additional information is required, the applicant will be contacted by the WMD in writing. Work may not commence until the Section 408 approval has been obtained and provided to the applicant. Note that until the Section 408 approval is received, any dredge and fill permit required cannot be issued by USACE.

Procedures for reviewing requests for Section 408 permission is contained in **Engineer Circular (EC) 1165-2-220**. The EC expired in 2022, but was extended via a USACE Memorandum dated November 14, 2023. The granting or denial of permission pursuant to Section 408 is made formal through a *Section 408* Decision Letter. Information about the Section 408 Permit process is provided in the **Specialty Permits Appendix**.

3.4 Wetland Jurisdiction

Federal Jurisdiction

The USACE is responsible for the protection of wetlands and Waters of the U.S. Wetlands are defined by the USACE in Title 33 Code of Federal Regulations (CFR) § 328.3(b) as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support and that under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soils." In other words, wetlands are areas that are covered by water or have appropriate wetland vegetation, hydric soils, and other hydrologic indicators (such as the presence of water marks, sediment deposits, or aquatic fauna/algal mat). Specific wetland dependent plants are indicators of saturated conditions. See handbook <u>Section 5.1.2.3 Hydrophytic</u> <u>Vegetation</u>.

3.5 Federal Commenting Agencies

Commenting agencies are an integral part of the permit review process. The lead permitting agency issuing a permit has an obligation to ensure that their authorization (i.e., permit) does not conflict with any other applicable state or federal regulations. Prior to and during the Design phase, FDOT will have completed much of the interagency coordination required for permitting. In some cases (such as with listed species or cultural resources), the information obtained during the PD&E phase may require updating once the design becomes certain; the necessary agency coordination/consultation can then be completed.

The lead federal permitting agency (either the USACE or USCG) will determine which commenting agencies are required to review and comment on a permit application. The agency will then share the project information with the other applicable agencies to solicit comments regarding the potential project impacts on protected resources under their jurisdiction.

The federal permitting process may include coordination with the following agencies:

- USFWS;
- NMFS;
- EPA;
- SHPO; and
- Native American Tribes.

For projects where FDOT has completed coordination or consultation with these agencies during the PD&E study, the coordination and consultation information should be shared with the permitting agency for their use.

HELPFUL HINTS: Coordinating agencies provide input on projects, but do not approve or deny federal permits. Only the lead federal agency authorizes a final agency action (permit).

3.6 Threatened and Endangered Species Jurisdiction

3.6.1 United States Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS)

The Endangered Species Act of 1973 (ESA) requires that federal agencies ensure activities being considered for authorization (e.g., permits) do not jeopardize the continued existence of listed species or adversely modify critical habitat. <u>Section 5</u> of the handbook discusses the



interagency coordination under Section 7 of the ESA that is required when a federal action agency (USACE or USCG) processes a Section 404 and/or bridge permit application that may affect federally listed species or critical habitat). Note that under <u>NEPA Assignment</u>, the Section 7 ESA Consultation can be conducted by FDOT, if FDOT is the lead agency. This interagency coordination between USACE/USCG and/or USFWS/NMFS (collectively and individually known as "the Service(s)"), may extend the permitting issuance timeframe. Timeframes follow 50 CFR § 402.13 (c)(2), Informal Consultation, which states that "the Service shall provide written concurrence or non-concurrence with the Federal agency's determination within 60 days. The 60-day timeframe may be extended upon mutual consent...but shall not exceed 120 days"; and 50 CFR § 402.14 (e), Formal consultation, which states that "Formal consultation concludes within 90 days after its initiation unless extended...the Service and the Federal agency may mutually agree to extend the consultation for a specific time period."

After the lead permitting agency determines if USFWS, NMFS, or both agencies will be reviewing the permit application, each commenting agency works with the permit applicant and lead permitting agency through the ESA Section 7 consultation process or EFH consultation process, as appropriate, to determine if any impacts are anticipated to federally listed species and habitats. Depending on the level of impacts, informal consultation may be sufficient, or the formal consultation process may be needed. Refer to <u>Section 5.4</u> for more details regarding informal and formal Section 7 consultation.

Note that when FDOT is not the lead agency, Section 7 Consultation is conducted by the lead permitting agency, USACE or USCG. FDOT can request Technical Assistance from the Service(s) when not the lead agency.

Regardless of whether the USACE or USCG is serving as lead or cooperating agency for a given federal project, USFWS and/or NMFS must review the permit application as a federal wildlife commenting agency. Both USFWS and NMFS have the potential to serve as commenting agencies for FDOT projects, but the need for each agency's review depends on whether the proposed impacts are anticipated to affect terrestrial and freshwater species (under USFWS jurisdiction) or marine species (under NMFS jurisdiction) and/or their habitats.

Additionally, a project may require an Incidental Take Permit (Section 10 of the ESA) when a project may affect federally listed species and critical habitat, and no federal dredge and fill or bridge permits are otherwise required for the project. As a result, the Service(s) would become the lead permitting agency during the ESA Section 10 permitting process (see <u>Section 5.5</u>).

For projects that have already had an ETDM screening and PD&E phase, prior coordination and documentation with the Service(s) will have already occurred as appropriate. As part of the review process during permitting, the federal wildlife resource agency may request additional species-specific surveys, confirmation of habitat boundaries and characterization, and/or data on any observed listed species from prior species surveys. While these agencies are not generally responsible for issuing the required federal permit, issuance of federal permits from USACE and/or USCG is contingent upon approval from the Service(s). Also, in some cases the Service(s) may be responsible for issuing a species-specific permit under Section 10 of the ESA.

The regulations implementing ESA provide that where emergency circumstances mandate the need to consult in an expedited manner, consultation may be conducted informally through alternative procedures that the Service(s) determine to be consistent with the requirements of Section 7(a)-(d) of the Endangered Species Act. Formal consultation, if required, should be initiated as soon as practicable after the emergency is under control.

U.S. Fish and Wildlife Service

USFWS has three offices in Florida: the Panama City Field Office, which is responsible for Section 7 ESA Consultation (see <u>Section 5.4</u>) associated with FDOT District 3; the North Florida Ecological Services Field Office in Jacksonville, which works with FDOT Districts 2, 5, 7, Enterprise, and 1 (Manatee County only); and the South Florida Ecosystem Field Office in Vero Beach, which works with FDOT Districts 1, 4, 6, Enterprise, and 5 (Osceola County only).

USFWS reviewers have been designated for the FDOT Districts through a USFWS-FDOT Agency Agreement. The purpose of the agreement is to - (1) conduct ESA Section 7 consultations; (2) provide technical assistance and advice to ensure projects avoid and minimize impacts; (3) ensure best scientific and commercial data are used; (4) work with FDOT throughout all phases of project development; (5) support environmental or research initiatives (5) advise on appropriateness of mitigation activities; and (6) conduct site visits and compliance inspections.

In 2021, a USFWS/FDOT Programmatic Approach (PA) for Minor Transportation Activities was developed to streamline the USFWS consultation process for minor transportation projects with potential involvement of fifteen listed species that fall under USFWS jurisdiction. This PA identifies appropriate effect determinations and applicable conservation measures for covered species and minor project activities, provides USFWS concurrence for effect determinations as applicable, and includes guidance regarding when additional assessment and further USFWS consultation may be required. See <u>Section 5.4.2.2</u> for more information regarding the PA.

Note that formal ESA consultation with USFWS should be initiated by FDOT's Office of Environmental Management (OEM). Informal consultation for a species determination of May affect, not likely to adversely affect can be initiated by the Districts with their designated Service ETAT representative. See <u>Section 5.4</u> for more detail on the Section 7 ESA Consultation).

National Marine Fisheries Services

The NMFS serves as one of the federal wildlife commenting agencies and is responsible for Section 7 ESA compliance over protected marine species, such as sea turtles swimming in marine environments, smalltooth sawfish, and coral species. NMFS is also responsible for conserving coastal, marine, and riverine habitat, including EFH such as coral reefs and rivers, per the Magnuson-Stevens Fishery Conservation and Management Act. The NMFS maintains two divisions that may be involved in project coordination:

- The Protected Resources Division (PRD) has the responsibility of conservation, protection and recovery of threatened and endangered species and their critical habitat. Primary Legislation: Endangered Species Act (ESA) and Marine Mammal Protection Act (MMPA).
- The Habitat Conservation Division (HCD) is responsible for conservation and enhancement of Essential Fish Habitat. Primary Legislation: Magnuson-Stevens Fishery Conservation and Management Act.

The agency's Southeast Regional Office is in St. Petersburg, Florida. This office's PRD is responsible for Section 7 ESA consultation statewide, while the HCD is responsible for EFH consultation throughout Florida. The two ETAT representatives have split the State (Gulf Coast and Atlantic Coast) and handle both types of reviews.

NMFS reviewers have been designated for the FDOT Districts under a NMFS-FDOT Agency Agreement. The purpose of the agreement is to (1) conduct EFH and ESA Section 7 consultations; (2) provide technical assistance and advice to ensure projects avoid and minimize impacts; (3) ensure best scientific and commercial data are used; (4) work with FDOT throughout all phases of project development; (5) support environmental or research initiatives (6) advise on appropriateness of mitigation activities; (7) conduct site visits and compliance inspections.

Note that formal ESA consultation with NMFS should be through FDOT's Office of Environmental Management (OEM). Informal consultation for a species determination of May affect, not likely to adversely affect can be initiated by the Districts with their designated Service ETAT representative (see <u>Section 5.4</u> for more detail on the Section 7 ESA Consultation).

3.6.2 Environmental Protection Agency

The EPA reviews USACE permit application packages on projects requiring a public notice. Projects that are part of a larger study and are included in the ETDM process will likely have coordinated with the EPA during that phase. Typically, the EPA provides comments related to water quality standards per Section 401 of the CWA, 33 U.S.C. § 1344, to ensure there is no proposed degradation of waters of the United States.



Pursuant to Section 404 of the CWA, the Environmental Protection Agency (EPA) oversees the Section 404 program and is also responsible for reviewing and commenting on individual Section 404 permit applications. Typically, the EPA only comments on complex permit applications. Please refer to <u>Section 6.5</u> for more information regarding the EPA's role as a federal commenting agency.

Since Water Quality Certification has been delegated to the State of Florida and issued as a part of the state ERP permitting process, the EPA typically only comments on intricate projects during permitting. Water Quality Certification through FDEP or the WMDs is required prior to the issuance of a Section 404 permit.

3.6.3 Cultural Resources Jurisdiction

State Historic Preservation Officer

The State Historic Preservation Officer (SHPO) is a state government function created by the U.S. government in 1966, under Section 106 of the National Historic Preservation Act (NHPA). Section 106 of the NHPA, as implemented by 36 CFR Part 800 (Protection of Historic Properties), protects those properties that are listed or determined eligible for inclusion in the National Register of Historic Places (NRHP). SHPO consultation and concurrence may be required for historic resources located in the project area.

An <u>Agency Operating Agreement</u> (AOA) between FDOT, FHWA, the Advisory Council on Historic Preservation (ACHP), and the Florida State Historic Preservation Officer (SHPO) outlines the level of cultural resource analysis required for the various types of FDOT transportation projects to ensure compliance with Section 106, Chapter 267, F.S., and NEPA. The AOA can be found within Exhibit 2.1 of the <u>FDOT Cultural Resources Manual</u>. Two basic considerations underlie the AOA: the potential project must impact cultural resources and the potential for cultural resources to be present in a given location. Both the project location and the specific type of activity determine the required level of cultural resource review. SHPO reviewers have been designated for the FDOT Districts through the AOA to conduct consultations, provide technical assistance to avoid and minimize impact, work with FDOT throughout all phases of project development; advise on appropriateness of mitigation activities; and issue resolution.

FDOT projects are subject to review by the SHPO for the presence of archaeological, historical, or cultural sites within the project area. Projects involving these resources should have coordinated with SHPO during the PD&E phase. A Cultural Resource Assessment Survey (CRAS) will be prepared during the PD&E Study to document the results of the survey; this will be based on the Area of Potential Effect (APE), which varies according to project scope and location and includes proposed pond sites. Refer to <u>Part 2, Chapter 8, Archaeological and Historical Resources of the PD&E Manual</u>.

The APE may change, based on design modifications after the PD&E Study is completed, resulting in the need to update the survey. This will be especially important for larger studies, where significant time has elapsed between the conclusion of the Study and project permitting. Since these studies require field work, modifications to the project footprint (or easements) should be communicated between FDOT project staff to determine if additional survey work is required. Note that if any design changes affecting new areas are made during the Design or Permitting phases, additional coordination and consultation will likely be needed and a permit modification may be required. SHPO concurrence is required for the issuance of both state and federal permits.

HELPFUL HINTS: Anytime there is a change to the project impacts that may affect a resource protected by SHPO, FDOT must reinitiate consultation with SHPO and obtain concurrence.

Most minor FDOT projects will not produce full CRAS documents to use for SHPO concurrence. A desktop cultural resource analysis to document the recorded findings for the project area will typically satisfy SHPO for project clearance as per the <u>Section 106</u> <u>Programmatic Agreement Among FHWA, the Advisory Council on Historic Preservation, the Florida DHR, SHPO, and FDOT Regarding Implementation of the Federal-Aid Highway</u> <u>Program in Florida</u>. A query can be made to the Florida Master Site File (FMSF) at the DHR during the early stages of design if no previous CRAS exists for the project area. The Master Site File is the state's official inventory of historical and cultural resources and can provide an informal list of any previous recorded site information.

Advisory Council on Historic Preservation

The ACHP is responsible for general oversight of the Section 106 process. As such, FDOT is required to notify the ACHP via the <u>ACHP e106 Form</u> whenever a finding of adverse effect on historic resources is made or if there is a disagreement regarding a particular effect finding. Once the form has been submitted, the ACHP has 15 days to review the undertaking and determine if consultation is needed. The ACHP will typically choose to enter consultation when there are:

- Substantial impacts to important historic properties,
- Questions regarding policy or interpretation,
- Potential procedural problems, or
- Issues of concern to Native American tribes

Resolution of adverse effects is documented in a Memorandum of Agreement (MOA), which contains avoidance, minimization, or mitigation measures that have been agreed upon by all parties involved.

Although notification/consultation with the ACHP usually occurs during the PD&E phase, FDOT will be required to notify (and possibly consult with) the ACHP in the Design or Permitting phase if a design change is found to have adverse effects on a historic resource. It is crucial for FDOT staff to communicate internally regarding any potential design changes. This will help minimize impacts to the project schedule by ensuring early identification of the need to notify the ACHP of any newly anticipated adverse effects.

3.6.4 Native American Tribes

If a transportation project occurs on or adjacent to Tribal land or is in an area that may be of religious or cultural significance to the tribe(s), the project will need to be reviewed by Tribal representatives. FDOT includes the tribes during the ETDM screening for these types of projects. FDOT has a designated Native American Coordinator (<u>Native</u> <u>American Coordination contacts</u>) and the USACE in Florida, has a liaison (located in the Cocoa Branch Office) to work with the local Native American Tribes on projects which may have an impact to Tribal lands.

The main tribes that have been involved in reviewing FDOT projects are the Miccosukee Tribe of Indians of Florida, Muscogee Creek Nation, Poarch Band of Creek Indians, Seminole Nation of Oklahoma, Mississippi Band of Choctaw Indians, and Seminole Tribe of Florida. These tribes provide designated representatives to consult on projects and provide comment and feedback to the lead federal permitting agency. Under the regulations, consideration must be given to areas designated as historically and culturally significant by tribes, even if they are located on private lands.

FDOT projects located near Tribal lands or areas that may be of religious or cultural significance to a tribe should have initiated coordination during the PD&E phase. This ensures that the appropriate coordination and consultation occur before the project reaches the Design and Permitting phase. Note that if any design changes affecting new areas are made during the Design or Permitting phases, additional coordination and consultation will likely be needed and a permit modification may be required. Please refer to <u>Part 2, Chapter 8, Archaeological and Historical Resources of the PD&E Manual, OEM's Native American Coordination website</u>, for more details regarding consultation with Native American tribes.

SECTION 4: STATE PROCESSES

4.1 Overview of the State Environmental Permitting Processes

This section provides an overview of state environmental permitting programs, processes, and lists the various permitting options available to FDOT. A summary of these topics can be found in <u>Table 4-1</u>, and further detail for each is provided in the subsequent sections.

Category	State
Permitting Agencies	Water Management Districts (WMD); Florida Department of Environmental Protection (FDEP)
Environmental Categories	Wetland & Surface Water Impacts; Dredge & Fill; Stormwater & Drainage; Aquatic Resources/Essential Fish Habitat (EFH) (Seagrass & Corals); Submerged Lands Ownership; Navigation; Water Quality; Endangered Species & Protected Habitat; Mangrove Trimming
Reviewing Agencies	Florida Fish and Wildlife Conservation Commission (FWC) - State Listed Species; Division of Historic Resources (DHR)
Wetland Jurisdiction & Delineation	Chapter 62-340, F.A.C Delineation of the Landward Extent of Wetlands & Surface Waters
Mitigation	Chapter 62-342 - Mitigation Banks, Chapter 62-345 – Uniform Mitigation Assessment Method
Stormwater Treatment/Drainage	Consideration of both water quantity and water quality as per Chapter 62-330, F.A.C.
Water Quality	Evaluated in accordance with Chapter 62-302, F.A.C. [Surface Water Quality Standards]
Wetland & Surface Water Impacts	Elimination & Reduction Analysis included in Environmental Resource Permit (ERP) Applicant's Handbook
Navigation	Oversight by Florida Marine Patrol
Bridges	Included in ERP, as outlined in Chapter 62-330, F.A.C.
Canals	ROW Occupancy Permitting Process under Chapter 40E-6, F.A.C.
Wells	Class V Stormwater Wells and Injection wells reviewed by FDEP under Chapter 62-528, F.A.C.; WMD Well abandonment requirements under Chapter 40D-3, F.A.C. [Regulations of Wells]
Pollution Control	Evaluated by FDEP under National Pollutant Discharge Elimination System (NPDES) Program
Hazardous Waste	Hazardous waste permit applications reviewed by FDEP
Special Designations	Aquatic Preserves, Outstanding Florida Waters, State Scenic Highways and State Parks
Dewatering	NPDES Permitting through FDEP, Water Use Permits through WMDs

Table 4-1 State Jurisdictional Responsibilities and Authorities

4.1.1 Florida Department of Environmental Protection (FDEP) Overview



The FDEP is the state's lead agency for environmental management. FDEP is divided into three primary areas: (1) Land and Recreation programs which acquire and protect lands for preservation and recreation; (2) Regulatory programs for natural resources including permitting and compliance activities that protect air and water quality and manage waste cleanups; and (3) Ecosystems Restoration programs to protect and improve water quality and aquatic resources.

FDEP is responsible for Environmental Resource Permitting (ERP) in some circumstances such as in Northwest Florida Water Management District (NWFWMD) and where FDEP issues permits for FDOT projects on state owned lands.

FDEP also permits stormwater wells and coastal construction for work waterward of the Coastal Construction Control Line (**CCCL Appendix**). Other areas under the regulatory jurisdiction of FDEP include hazardous waste; potable water facilities; water reuse; communication cables; powerlines; and other utilities.

The U.S. Environmental Protection Agency (EPA) has delegated the authority to issue Water Quality Certification and National Pollutant Discharge Elimination System (NPDES) permitting in Florida to FDEP. As ERPs also serve as the Water Quality Certification, the State Water Management Districts (WMDs) also have a role in this capacity.

FDEP has <u>delegated mangrove-trimming permits</u> to seven county and local municipal governments (Miami-Dade County, Broward County, Hillsborough County, Pinellas County, Sarasota County, the Town of Jupiter, and the City of Sanibel). To learn more about FDEP's Mangrove permitting rules pursuant to <u>Section 403.9324, F.S.</u>, as well as coordination on mangrove trimming, go to FDEP's web page on <u>mangroves</u>.

4.1.2 Water Management Districts



The WMD roles include Florida's flood protection and surface water management programs; managing and restoring many of Florida's public lands; overseeing the

consumptive use of water and aquifer recharge; operating and maintaining canals owned by the WMDs [Right of Way (ROW) Occupancy permitting]; and serving as the local sponsor for USACE in preliminary review of Section 408 whereby Civil Works Projects are proposed to be altered, relocated, or modified.

The WMDs are divided into the five distinct geographic regions as depicted in *Figure 4-1* below.

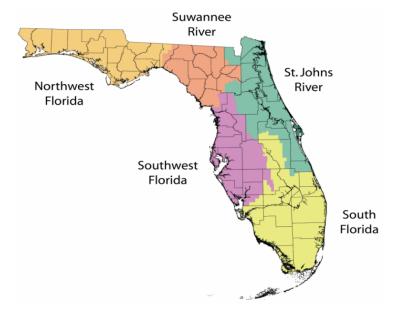


Figure 4-1 The Five Water Management Districts within Florida (Source: FDEP website at <u>http://www.dep.state.fl.us/secretary/watman/default.htm</u>)

4.1.3 FDEP & WMDs Operating Agreements

Jurisdiction for state permitting responsibilities is established in <u>Operating Agreements</u> between FDEP and each of the WMDs. In accordance with these Operating Agreements, the WMDs regulate transportation facilities and mitigation banks. Each WMD has its own permit portal website that includes different tracking mechanisms for ERPs.

Additional consideration and exceptions would include projects involving contamination coordination and cleanup on FDOT ROW, projects located waterward of the CCCL, temporary cement plants for FDOT projects, and cases where more than one WMD is involved (see operating agreements for full list). Special permit cases that require permits from FDEP and the WMDs are further explained in this Handbook.

4.2 ERP Program

The ERP program regulates changes to the landscape that affect surface water flows. As described in Chapter 62-330 F.A.C., changes to the landscape include clearing, grading, construction of structures, filling, and dredging, whether the work occurs in uplands, wetlands, stormwater, or other surface waters (including wetlands and waters that are

isolated). The program addresses impacts to resources caused by dredging and filling in wetlands and other surface waters, as well as stormwater runoff quality (stormwater treatment) and quantity (preventing flooding of other properties, slowing down flow, and draining of surface and ground waters); impacts to existing surface water conveyance; and those that may adversely affect functions provided to fish and wildlife.

4.2.1 ERP Regulatory Components

State efforts to streamline and standardize procedures between the FDEP and WMD offices are captured in a series of Applicant's Handbooks which outline the rules, practices, and criteria that currently apply to ERP permitting. The ERP Applicant's Handbook is divided into two volumes.

- <u>Volume I</u> provides the background of the ERP program which includes rules and statutes, forms, thresholds, exemptions, erosion and sediment control methods, operation and maintenance requirements and environmental criteria. This volume is applicable to FDEP and all five WMD offices.
- <u>Volume II</u> is specific to each WMD and can be accessed from the <u>Water Resource</u> <u>Management Rules webpage</u>. These volumes primarily apply to the design criteria and permitting of stormwater management systems.



HELPFUL HINTS: Volume I, Chapter 10 of the ERP Applicant's Handbook includes the environmental criteria for permit issuance related to activities located in wetlands and other surface waters.

The ERP program regulates two principal categories of permitted activities: (1) stormwater management and (2) environmental impacts. The term "environmental," from the standpoint of ERP review criteria, does not include all items included in FDOT Project Development and Environment (PD&E) Studies, such as air quality, noise, and contamination. The ERP environmental analysis by WMD staff (or FDEP in the panhandle) includes the review of proposed effects to wetlands and other surface waters, and wetland dependent species. Effects to archaeological and historic resources and state-listed wildlife are reviewed by other state agencies commenting on the application [e.g., Florida Division of Historical Resources (DHR) and the Florida Fish and Wildlife Conservation Commission (FWC)]. The WMDs have separate staff reviewers for each application component, who work with the applicant to achieve compliance with state rules.



NOTE: Although continued efforts are being made for standardization between WMD offices, it is important to recognize that differences exist procedurally, as well as with approaches to design and drainage structure aspects.

4.3 State Permit Thresholds and Criteria

4.3.1 State Permitting Thresholds

The ERP program regulates all activities that are in, on or over surface waters or wetlands, as well as any activity involving the alteration of surface water flows (stormwater management). Activities include the construction, alteration, operation, maintenance or repair, removal, and abandonment of dams, impoundments, reservoirs, appurtenant works, and works, which includes dredging and filling in wetlands, other surface waters, wellfields, and alterations of uplands [Rule 62-330.020(2), F.A.C.]. An ERP permit is required for construction activities (and some maintenance activities) to prevent flooding, protect water quality of Florida's surface waters, and protect wetlands. Some activities listed above may be exempted by rule as further explained in <u>Section 4.3.5</u>.

Stormwater Review Criteria

When evaluating the type of permit (if any) a project or activity may require, the first item to evaluate is whether any part of the project will exceed the established ERP permit thresholds. <u>Rule 62-330.020(2)</u>, (a) through (j), F.A.C., lists all the thresholds that, if <u>exceeded</u>, will require a permit. According to this regulation, a permit is required prior to the construction, alteration, operation, maintenance, removal, or abandonment of any new project that, by itself or in combination with an activity, cumulatively results in any of the following:

- Any project in, on, or over wetlands or other surface waters;
- A total of more than 4,000 square feet of impervious and semi-impervious surface areas subject to vehicular traffic;
- A total of more than 9,000 square feet impervious and semi-impervious surface area;
- A total project area of more than five acres;
- A capability of impounding more than 40 acre-feet of water; and
- Any modification or alteration of a project previously permitted under Part IV of Chapter 373, Florida Statutes.

In accordance with Section 3.1.4 (f) of Volume I of the Applicant's Handbook, activities that <u>do not</u> exceed the above thresholds must also not:

- Cause adverse water quality impacts to receiving waters and adjacent lands;
- Cause adverse flooding to on-site or off-site property;
- Cause adverse impacts to existing surface water storage and conveyance capabilities;
- Cause or contribute to a violation of the water quality standards; and,
- Cause adverse secondary or cumulative impacts to the water resources.

The above criteria must first consider those activities that qualify as not regulated or exempt (custodial maintenance, grandfathered activities, or exemptions). Activities that

presumably do not require a permit or qualify as an exempted activity should be carefully reviewed to ensure that the proposed activities do not require a permit. The following section highlights which activities must be considered prior to moving forward with a permit determination.

4.3.2 Routine Custodial Maintenance

Routine maintenance activities do not require a permit, provided they comply with the following:

- Meet the conditions of permits or other authorizations;
- Do not violate water quality standards in receiving waters;
- Do not Impact the state's facilities or rights-of-way;
- Do not alter, modify, expand, abandon, or remove the existing work in a manner as to require a general or individual permit; and,
- Are routine and custodial with no more than minimal adverse impact on the environment.

To be considered routine and custodial maintenance, the activity must occur on a frequent enough basis to ensure that the project continues to function as originally designed. The restoration of a project that has deteriorated to an extent that it no longer functions as originally designed is not exempt from permitting. The exception is when a project has lost its functionality due to a sudden event like a storm.

Specific examples of environmental impacts that are considered to be more than minimal, as cited in the Applicants Handbook (Volume 1, Chapter 3.1.1) include:

- Changing water levels in wetlands or other surface waters in a manner that adversely impacts fish and wildlife or their habitat;
- Causing a violation of state water quality standards in receiving waters.

4.3.3 Grandfathered Activities

Under this provision, no permit is required for certain activities that were previously authorized to remain in existence, under operation, or constructed under the previous management and storage of surface waters (MSSW) statutes and rules that existed prior to the current ERP program (prior to October 3, 1995). An exception exists for NWFWMD, where the effective date of the ERP program is October 1, 2007, for stormwater management systems and November 1, 2010, for the dredging and filling of wetlands.

It is important to note that most of the construction permits from this era have expired, but the operation and maintenance of stormwater management systems remains in effect in perpetuity. Historic permits are available (to some extent) within <u>WMD permitting</u> <u>portals</u>. If an old MSSW permit has been identified within the designated project area, an applicant should explore whether this provision is applicable.

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BEST PRACTICES: Be sure to review the permitting history and permitting conditions of the project area. This can be done by reviewing the WMD Permitting Portal or FDEP Portal.

4.3.4 Exemptions

There are specific permit exemptions outlined in Volume I, Section 3.2 of the Applicant's Handbook, Rule 62-330.051, F.A.C, and Section 373.406, Florida Statutes. Additional WMD-specific exemptions are included in Section 1.3 of Volume II of each WMD Applicant's Handbook. A review of these exemptions is recommended for all projects, especially atypical FDOT projects like infrastructure and trails. For a discussion of stormwater permitting criteria which would require an ERP if exceeded, please see <u>Section 4.3.1</u>.

Specific permit exemptions that may apply to FDOT projects include some bridges, driveways, and roadways activities such as:

- The replacement and repair of existing open-trestle footbridges and vehicular bridges;
- The construction, alteration, or maintenance, and operation, of culverted driveway or roadway crossings and bridges of wholly artificial, non-navigable drainage conveyance;
- Minor roadway safety construction, alteration, or maintenance, and operation;
- Resurfacing existing paved roads and grading of existing unpaved roads;
- The repair, stabilization, or paving of existing unpaved roads; and,
- The repair or replacement of vehicular bridges that are part of the unpaved road.

Note that additional criteria are also required to meet these exemptions, as listed in Rule 62-330.051 (4), F.A.C.:

- Some maintenance and restoration activities, provided they meet rule criteria;
- The installation of aids to navigation, including bridge fender piles, "No Wake" and similar regulatory signs, and buoys associated with such aids;
- Some Pipes or Culverts;
- The construction, alteration, maintenance, removal, or abandonment of some recreational paths for pedestrians, bicycles, and golf carts;
- Construction, replacement, restoration, enhancement, and repair of seawall, riprap, and other shoreline stabilization;
- Modification or reconstruction of an existing conveyance system; and,
- The construction, alteration, maintenance, or removal of wholly-owned, artificial surface waters.

WMD-Specific Exemptions

Additional WMD-specific exemptions are included in Volume II, Section 1.3 of each WMD Applicant's Handbook.

Suwanee River WMD is the only WMD that has a specific exemption that could be applicable to FDOT projects. This exemption allows for the connections or additions to existing stormwater systems owned, operated, and maintained by a unit of local (city or county), regional, or state government. This exemption applies if the stormwater connection or addition is authorized by the local unit of government, under a local ordinance by the unit or regional or state government, and under a license issued pursuant to Section 120.60, F.S., if:

- The authorization or license requires control of post development runoff rates and/or volumes in a manner consistent with the requirements of Rule 62-330, F.A.C.;
- 2. Such connections or additions do not require alteration of the existing systems; and
- 3. Such connections or additions do not cause the existing system to become a hazard to the public health, safety, or general welfare.

4.3.5 De Minimis Exemptions

An additional exemption, which is known as the de minimis exemption (Volume I, Section 3.2.7(c) of the Applicant's Handbook), is also available to permit applicants and can be used for FDOT projects where there is only minimal or insignificant individual or cumulative adverse impact on the water resources. A de minimis exemption is authorized on a "case by case" basis and can be issued at the discretion of the agency reviewer. The onus is on the applicant to provide the necessary documentation and field analysis to verify this exemption.

Requests to qualify for this exemption shall be submitted in writing to the WMD or FDEP, and such activities shall not be commenced without a written determination from the WMD or department confirming that the activity qualifies for the exemption. A field review with the permit review agency will be necessary. The written *De Minimis* exemption determination should be placed into the project file.

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BEST PRACTICES:

EXEMPTIONS: There are several exemptions that may be used by FDOT on a "case by case basis," which require authorization before starting construction. These exemptions include the following:

- "De minimis" exemptions
- Maintenance dredging within previously dredged portions of natural water bodies within drainage ROW or drainage easements, which have been recorded in the public records of the county

• Repair, stabilization, or paving of existing county-maintained roads and the repair or replacement of bridges that are part of the roadway

Recommended: The submittal of a "Request for Verification of an Exemption" form is highly recommended for the file to prevent any preconstruction confusion or ERP compliance questions.

Documentation of Determination

It is recommended that a letter (or email) from the state permit-agency be obtained to document concurrence with the determination that the proposed activity qualifies as an exempt activity, grandfathered provision, or that no permit is required.

4.4 Types of Permits

Once it is determined that the project exceeds the thresholds to qualify for an exemption or grandfathered provision, the next step is to determine what type of permit will be required. There are three main types of permits available: a general permit, an individual permit, and a conceptual approval permit.

4.4.1 General Permits

Several general permits are available under Environmental Resource Permitting, each with specific project scope and criteria. The qualification criteria for each permit are outlined in Rules 62-330.410 through 63-330.635, F.A.C. General permits share a set of conditions that are applicable to all permits, as well as specific conditions unique to each permit. Approvals from state commenting agencies are not part of the general permit approval process. The following general permits can be applicable to FDOT projects:

- Rule 62-330.417, F.A.C., General Permit for Construction, Alteration, Operation, and Maintenance of Boat Ramp Facilities
- Rule 62-330.431, F.A.C., General Permit for Installation of Riprap
- Rule 62-330.437, F.A.C., General Permit for Installation of Fences
- Rule 62-330.439, F.A.C., General Permit for Construction or Maintenance of Culverted Driveway or Roadway Crossings, and Bridges of Artificial Waterways
- Rule 62-330.443, F.A.C., General Permit to the Florida Department of Transportation, Counties, and Municipalities for Minor Bridge Alteration, Placement, Replacement, Removal, Maintenance, and Operation
- Rule 62-330.447, F.A.C., General Permit to the Florida Department of Transportation, Counties, and Municipalities for Minor Activities within Existing Rights-of-Way or Easements
- Rule 62-330.451, F.A.C., General Permit to Counties, Municipalities, and other Agencies to Conduct Stormwater Retrofit Activities including culverts.

- Rule 62-330.453, F.A.C., General Permit for Installation, Maintenance, Repair, and Removal of Underground Utility Lines including conduit.
- Rule 62-330.457, F.A.C. General Permit for Subaqueous Utility Crossings of Artificial Waterways including conduit.
- Rule 62-330.475, F.A.C., General Permit for Minor Activities and Single-family Residential Activities in Isolated Wetlands



HELPFUL HINTS: Rules 62-330.443 and 62-330.447, F.A.C. are the most common general permits that apply to FDOT projects.

10/2 Self-Certification General Permit

This "permit" is a self-certification for upland stormwater systems. To qualify for this authorization, activities must be in uplands having less than 10 acres of total land area and less than two acres of impervious surface. Self-certification of compliance with this permit can be achieved through FDEP's portal (*Florida Department of Environmental Protection Business Portal*), regardless of whether the activity is within the jurisdiction of FDEP or a WMD. The self-certification is sent back immediately upon submittal of the request through the FDEP portal.

Qualification for this self-certification for FDOT projects would only be reserved for small infrastructure projects, such as rest areas or small sections of sidewalk or trail projects. It is important to note that the 10 acres apply only to the area of uplands that will be disturbed. No wetland or surface water impacts are authorized under this self-certification process.

Programmatic General Permits Issued on Behalf of the USACE

There are several programmatic general permits available to applicants that authorize the WMDs or other regulatory authorities (i.e., NMFS; Counties; Native American Tribes) to issue a permit on behalf of the USACE. Currently, the <u>SPGP VI</u> may be applicable to FDOT projects (see **Regional General Permits Appendix)**. These permits are only available to the WMDs that enter into an agreement with the USACE.

State Programmatic General Permit (SPGP VI)

SPGP VI authorizes the WMDs that enter into an agreement with USACE to issue a permit on behalf of USACE (see **Regional General Permits Appendix)**. The authorization is limited to the following types of projects: shoreline stabilization; boat ramps; docks; piers and other minor piling-supported structures; maintenance dredging of canals and channels; and minor transient projects (such as derelict vessel removal, certain geotechnical investigations, and living shoreline projects). The project must have relatively minor impacts to wetlands or surface waters. Like other general permits, approvals from state commenting agencies are not part of the process, and a notice to the USACE is submitted as part of the application process.

4.4.2 Individual Permits

An individual permit is the "catch all" for those activities that exceed the permitting thresholds and do not qualify for a general permit or permit exemption. An application for a mitigation bank is also processed as an individual permit. Notices/solicitations for comments are part of this permit application process and should be considered when preparing the application documents. <u>Section 6</u> provides additional descriptions of the permitting process including application forms and documentation.

4.4.3 Conceptual Approval Permit

Conceptual approval permits (conceptual permits), under ERP Chapter 62-330 FAC, are typically for activities that occur in phases with a long-term construction period. A conceptual permit may be issued to expire 20 years after issuance but does not actually authorize construction. Issuance of a conceptual approval permit does not relieve the holder of any requirements to obtain a permit to construct, alter, operate, maintain, remove, or abandon projects that require a permit. A separate individual permit, issued subsequent to the conceptual permit, will authorize construction activities for each project phase.

It is very uncommon for FDOT to apply for a conceptual permit. However, one possible advantage for using this type of permit could include locking down Uniform Mitigation Assessment Method (UMAM) scores and having preliminary approval of mitigation concepts for longer road corridors. Another advantage for using a conceptual permit might include the possibility of delaying the expenditure of mitigation funds for a project that may not be constructed for many years in the future; however, in some cases the WMDs may require mitigation upfront. A possible disadvantage of conceptual permits is that FDOT must obtain an additional construction permit within five years of issuance. If a construction permit is not issued within this period, the conceptual permit will expire within five years. For more information on UMAM, see <u>Section 5.3</u>.

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HELPFUL HINTS: For FDOT projects, possible use of a conceptual permit could include a conceptual approval of a Design-Build (D/B) project that has very preliminary plans. In this scenario, mitigation scores and concepts can be approved, based on the preliminary plan sets.

4.5 Drainage Jurisdiction

The ERP stormwater management review criteria are based on the principle that all water runoff from the project site must be managed utilizing "best management practices" (BMPs) prior to discharge from the project site. The purpose of these BMPs, or stormwater management systems, is to provide reasonable assurance that no adverse impacts to state water quality or quantity will occur due to the project. Various stormwater management systems and associated criteria are documented within Volume II of the ERP Applicant's Handbook and the Florida Statutes.

Additional criteria may also be applicable for stormwater management systems based on the geographic location or basin in which the project is located and the classification of the receiving water body, e.g., Outstanding Florida Waters (OFWs). The state permitting agencies typically have an engineer review the stormwater management component of the ERP permit application and help guide the application process through the stormwater permitting process. FDOT also has its own criteria for drainage that are detailed in the <u>FDOT Drainage Manual</u>.



NOTE: An applicant must demonstrate compliance through proper design and performance of systems to demonstrate treatment of a minimum of 80% pollutant removal.

The permit evaluation criteria associated with stormwater management include documentation that a project does not cause adverse water quality impacts to receiving waters and adjacent uplands and does not cause adverse flooding to onsite and offsite properties. By implementing the design standards in the Applicant's Handbook, the discharge is presumed to meet state water quality standards that are validated by issuance of an ERP permit.

An ERP permit may be required for stormwater improvements even when there are no wetland and surface water impacts. Close coordination with the drainage and roadway engineers regarding FDOT permitting efforts is an integral part of the permitting process.

Note that a Water Quality Certification ("401 certification"), which is implemented by the WMDs and the FDEP on behalf of the EPA, is required prior to issuance of a Section 404 (dredge and fill) permit. Therefore, the timing of the Section 404 permit processing should be coordinated so that the ERP permit is issued (with Water Quality Certification) prior to the completion of the Section 404 permitting.

4.6 Wetland Jurisdiction

State Jurisdiction

The State program, through FDEP and WMDs, oversees wetlands through the ERP regulatory program. Wetlands are defined in Chapter 62-340, F.A.C. as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in saturated soils." For the state's purposes, wetlands are areas that contain at least two of the following components: appropriate wetland vegetation, hydric soils, or other hydrologic indicators.

Chapter 62-340, F.A.C. also includes a list of plants that can be found in wetlands. These plants are also included in *Florida Wetland Plants: An Identification Manual* that was published by the University of Florida in 1998.

4.6.1 Section 408 Review – State Local Sponsor

FDOT is required to obtain Section 408 USACE permission when a project is proposed to alter existing federal flood control projects (i.e., levees, dams, and canals). This process is required for bridge projects over canals in Central and South Florida that are associated with flood control projects in the Everglades. Typically, this permit process is handled as part of the ROW Occupancy permit process through the WMDs, as delegated by USACE as the State Local Sponsor. In some cases where a major modification is required, FDOT may submit the application directly to USACE.

The USACE provides guidance for this process in Engineer Circular 1165-2-220, Policy and Procedural Guidance for Processing Requests to Alter United States Army Corps of Engineers Civil Works Projects Pursuant to 33 U.S.C. 408 (USACE, 10 Sept. 2018). The granting or denial of permission pursuant to Section 408 is made formal through a Section 408 Decision Letter. Information about the Section 408 Permit process is provided in the **Special Permit Appendices**.

4.6.2 Emergency Permit

Under certain circumstances, such as natural disasters, the Governor may declare an emergency which will trigger certain requirements. Pursuant to **Florida Law**, "A state of emergency shall be declared by executive order or proclamation of the Governor (Chapter 252.36 F.A.C.) if she or he finds an emergency has occurred or that the occurrence or the threat thereof is imminent." A declared state of emergency lasts until the governor signs a declaration ending it because the situation is no longer dire, or 60 days, whichever comes first. The governor may choose to extend it if conditions warrant it. The governor may restrict state of emergency declarations to individual counties or apply them to the entire state.

The following actions for transportation facilities damaged by an incident resulting in an emergency declared by the Governor of the State and concurred in by the Secretary, or a disaster or emergency declared by the President of the United States pursuant to the Robert T. Stafford Act (42 U.S.C. § 5121 et. seq.):

- a. Emergency repairs under 49 U.S.C. § 5324; and
- b. The repair, reconstruction, restoration, retrofitting, or replacement of any road, highway, bridge, tunnel, or transit facility (such as a ferry dock or bus transfer station), including ancillary transportation facilities (such as pedestrian/bicycle paths and bike lanes), that is in operation or under construction when damaged and the action:
 - i. Occurs within the existing ROW and in a manner, that substantially conforms to the pre-existing design, function, and location as the original (which may include upgrades to meet existing codes and standards as well as upgrades warranted to address conditions that have changed since the original construction); and

ii. Is commenced within a two-year period beginning on the date of the declaration.

"Emergency conditions" are defined as those that pose an imminent or existing serious threat or danger and require immediate action to protect the public health, safety, or welfare, or the water resources of the Agency, including the health of aquatic and wetland-dependent species; a public water supply; or recreational, commercial, industrial, agricultural, or other reasonable uses. Carelessness or the lack of planning on the part of an applicant shall not be sufficient grounds to warrant the granting of an emergency field authorization.

4.6.3 State Commenting Agencies

Information for FDOT projects with PD&E Studies are forwarded to state agencies for comment early in the process, often during the PD&E phase. For smaller projects, ERP permit applications are submitted to applicable state agencies when received by the WMDs or FDEP. Typically, a Natural Resources Evaluation (NRE) is prepared and forwarded to state commenting agencies during the PD&E process. State commenting agencies include the FWC and the DHR.

For state ERPs, neither the FDEP nor the applicable WMD will issue the permit until the review has determined that the project meets all the criteria in Part IV of Chapter 373 and Chapter 253, F.S.; and Chapter 62-330, Chapter 18-20, and Chapter 18-21 of the Florida Administrative Code.

4.6.3.1 FWC



FWC serves as the state wildlife commenting agency during the state permitting process. FWC regulates species listed in Florida's Endangered and Threatened Species Act (such as the burrowing owl and the gopher tortoise, **Species Appendices**). The FWC also issues species-specific permits including the relocation of gopher tortoises and burrowing owls. The FWC's *Imperiled Species Management Plan* (ISMP) establishes species action plans, conservation measures,

guidelines, and policies. In addition, the ISMP focuses on restoring habitat and addresses long-term issues for all state listed species. This plan includes specific species guidelines. Each District has a FWC ETAT representative that can provide assistance.

FWC Review

FWC staff representatives are assigned to the Districts under an <u>Agency Operating</u> <u>Agreement</u> (AOA) between FWC, FDOT, and FHWA. FWC will – (1) perform reviews for potential species and habitat effects based on FWC's statutory and regulatory authorities; (2) provide focused comments identifying potential issues with the project including recommendations for avoidance and minimization; (3) provide plans, programs, and technical reports that are part of FWC's resource management and protection initiatives and may affect a proposed project; (4) identifies issues that can be eliminated from further study; (5) reviews technical documents and provide technical support as needed; (6) provides information that helps expedite FWC permits (e.g. gopher tortoise and bald eagle); (7) informs FDOT on FWC's initiatives, rule changes, species management plans, and regulations that may impact FDOT; and (8) provides detailed comments as requested by FDOT to help satisfy requirements and refine project scopes. FWC typically reviews a project for agreement with its regulations and policies concerning state-listed species and managed lands. FWC may provide additional data regarding listed species that may occur in the area. Most large FDOT capacity and new alignment projects have previously coordinated with FWC during the PD&E Study or through review of a Natural Resources Evaluation (NRE). A NRE is conducted when a project requires consultation for potential impacts to listed species or when wetland impacts are anticipated. However, some projects, such as trail or sidewalk projects, that do not have a PD&E phase and start in Design phase, may be new to FWC. Environmental analysis for these projects can be found in a Non-Major State Action (NMSA) or Type 1 Categorical Exclusion (CE) checklists. It is recommended that potential effects to statelisted wildlife species be included in the project's environmental permit application. FWC may also ask about construction methods or mandate precautionary measures. For example, in projects where there may be manatees, the FWC will require the use of manatee protection provisions (see West Indian Manatee Appendix). FWC may request information on coral impacts (403.93345 Florida Statutes, Coral Reef Protection Act) relating to bridge repair projects, as well as information on wildlife crossings and wildlife deterrents.



HELPFUL HINTS: It is beneficial to include documentation of coordination with FWC that occurred during the PD&E Study in the permit application package, to reiterate previous effect determinations.

4.6.4 State Historic Preservation Officer

FDOT projects are subject to review by the SHPO for the presence of archaeological, historical, or cultural sites within the project area. Projects involving these resources should have coordinated with SHPO during the PD&E phase. A Cultural Resource Assessment Survey (CRAS) will be prepared during the PD&E Study to document the results of the survey; this will be based on the Area of Potential Effect (APE), which varies according to project scope and location and includes proposed pond sites. Refer to <u>Part 2, Chapter 8, Archaeological and Historical Resources of the PD&E Manual</u>.

The APE may change, based on design modifications after the PD&E Study is completed, resulting in the need to update the survey. This will be especially important for larger studies, where significant time has elapsed between the conclusion of the Study and project permitting. Since these studies require field work, modifications to the project footprint (or easements) should be communicated between FDOT project staff to determine if additional survey work is required. Note that if any design changes affecting new areas are made during the Design or permitting phases, additional coordination

and consultation will likely be needed and a permit modification may be required. SHPO concurrence is required for the issuance of both state and federal permits.

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HELPFUL HINTS: Anytime there is a change to the project impacts that may affect a resource protected by SHPO, FDOT must reinitiate consultation with SHPO and obtain concurrence.

Most minor FDOT projects will not produce full CRAS documents to use for SHPO concurrence. A desktop cultural resource analysis to document the recorded findings for the project area will typically satisfy SHPO for project clearance as per the <u>2015 Section</u> <u>106 Programmatic Agreement Among FHWA, the Advisory Council on Historic Preservation, the Florida DHR, SHPO, and FDOT Regarding Implementation of the Federal-Aid Highway Program in Florida. A query can be made to the State Master Site File at the DHR during the initial stages of design if no previous CRAS exists for the project area. The Master Site File is the state's official inventory of historical and cultural resources and can provide an informal list of any previous recorded site information.</u>

4.6.4.1 Florida Division of Historical Resources (DHR) Review

The Florida Department of State, DHR reviews FDOT projects and provides concurrence for projects that will not affect any historical, cultural, or archaeological resources. DHR also

cultural, or archaeological resources. DHR also complies with Chapter 267, F.S., for consultation and concurrence required for adverse effects to NRHP listed or eligible cultural resources. Projects with a PD&E phase will have initiated contact with the DHR during the ETDM process and the PD&E Study. Projects not in ETDM are covered under an AOA between FDOT, FHWA, the Advisory Council on Historic Preservation (ACHP), and the Florida State Historic Preservation Officer (SHPO). The AOA outlines the level of cultural resource analysis required for the various types of FDOT transportation projects to ensure compliance with Section 106, Chapter 267, F.S., and NEPA. Two basic considerations underlie the AOA: the potential project has to impact cultural resources and the potential for cultural resources to be present in a given location. Both the project location and the specific type of activity determine the required level of cultural resource review. SHPO reviewers have been designated for the FDOT Districts through the AOA to conduct consultations, provide technical assistance to avoid and minimize impact, work with FDOT throughout all phases of project development; advise on appropriateness of mitigation activities; and issue resolution.

The WMD is required to submit the ERP application to the DHR of the Department of State. The DHR may request that the applicant perform a historic and archaeological survey for projects located in, on, or over wetlands or other surface waters. If this project went through the PD&E process, this Cultural Resource Assessment Survey report should already exist. However, the CRAS study may need to be updated to reflect any changes in the APE, which varies according to project scope and location.



HELPFUL HINTS: When Design has reached approximately 45%, it is prudent to review any areas that were not part of the PD&E Study to ascertain whether the APE included all areas of the current project footprint. Any areas not included in the previous surveys should be surveyed and coordinated with DHR prior to submitting applications.

For smaller projects, DHR may request that an archaeological survey be conducted. At a minimum, a desktop-level review of the project area by a cultural resources professional will be necessary. Full surveys may be required, depending on the project's potential impacts and the level of information available for the project area. It is wise to review the potential need for surveys early in the project, as these surveys can take time to plan and carry out.

Please refer to <u>Part 2, Chapter 8, Archaeological and Historical Resources of the PD&E</u> <u>Manual</u> for more details regarding DHR's review process.

4.7 Additional Review Elements for State Agencies

Additional topics reviewed under the ERP program, which are less frequent in occurrence, include Sovereign Submerged Lands, Coastal Zone Consistency, Aquatic Preserves, Water Quality Certification, WMD ROW Occupancy, and other topics specific to FDEP, such as the NPDES.

4.7.1 Sovereign Submerged Lands

Sovereign Submerged Lands (SSL) are those lands including but not limited to, tidal lands, islands, sand bars, shallow banks, and lands waterward of the ordinary or mean high water line, beneath navigable fresh water or beneath tidally-influenced waters, which the State of Florida acquired title to on March 3, 1845, by virtue of statehood, and which have not been heretofore conveyed or alienated (18-21.003, Florida Administrative Code). Authorization for use of Sovereign Submerged Lands is required for any construction on, over or under submerged land owned by the State of Florida. If a determination is made that the activity is located on state-owned submerged lands, a separate submerged lands authorization, or a modification of an existing easement, will likely be required in addition to the required ERP. A Professional Land Surveyor is required to produce an easement sketch and descriptions. Chapter 18-21.007, F.A.C. describes the Applications for Letter of Consent, which includes the following:

- Name, address, email address, and telephone number of applicant and applicant's authorized agent, if applicable;
- Location of the proposed activity including: county; section, township and range; affected waterbody; and a scaled aerial photograph of the vicinity;
- Satisfactory evidence of sufficient upland interest to the extent required by paragraph 18-21.004(3)(b), F.A.C.;
- A detailed statement of the proposed activity;

- Dimensioned site plan drawing(s) with the following requirements:
 - Using an appropriate scale for a 8 1/2" x 11" size document;
 - Showing the approximate water's edge;
 - o Showing the location of the shoreline vegetation, if existing;
 - o Showing the location of the proposed structures and any existing structures;
 - o Showing the applicant's upland parcel property lines; and,
 - Showing the primary navigation channels or direction to the center of the affected waterbody.
- If dredging is proposed, an estimate of the number of cubic yards of sovereignty materials to be removed showing how the amount was calculated.

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BEST PRACTICES: A predetermination of whether a project is located over Sovereign Submerged Land can be sent directly to FDEP's Division of State Lands, Bureau of Survey and Mapping (3900 Commonwealth Blvd. MS 100, Tallahassee, FL 32399) for a title determination, and is recommended in the early Design process.

Chapter 18-21, F.A.C., dictates Sovereign Submerged Land regulation in Florida. Authorization to use Sovereign Submerged Land is part of the ERP review process and authorization. Authorization can occur either by the reviewing WMD staff (Consent by Rule or Letter of Consent) or separately by FDEP easement, depending on the thresholds being exceeded for each proposed activity.

Applicants are not responsible for obtaining a determination for the type of authorization required for projects over Sovereign Submerged Land. If not indicated in the predetermination letter, it is encouraged that a pre-application meeting or correspondence occur to determine the form of authorization required, the delegation of authority (FDEP or WMD), and the items that will be required for authorization, to streamline the permitting process.

The processing of state-owned submerged lands authorization typically occurs concurrently with the permit application. The reviewer at the State permit agency will forward a copy of the application to the FDEP Division of State Lands in Tallahassee for review and determination of the extent of Sovereign Submerged Land involved in the proposed application. For a General Permit, authorization of Sovereign Submerged Land can be approved through the WMD as Consent by Rule or Letter of Consent as part of the permit issuance. In the event that the authorization will require execution of a document, such as a lease or easement, it may be prudent to submit all required items to FDEP directly (or through the WMD) ahead of the permit submittal, to expedite issuance of the individual permit. Unlike the general permit, which can be issued separately from the Sovereign Submerged Land authorization, an individual permit must have Sovereign Submerged Land approval prior to being issued.

4.7.2 Forms of Authorization

The level of review for Sovereign Submerged Land authorization is dependent on the level of proposed activity. Mangrove trimming, or alteration, is not considered an activity that requires a Sovereign Submerged Land authorization. Some authorizations including, "Consent by Rule" and a "Letter of Consent," can be granted through the WMD review staff as part of the permit review.

In accordance with Rule 18-21.005, F.A.C., FDOT projects that may qualify for this "<u>Consent by Rule</u>" include the construction or replacement of dock or pier structures, provided that the activity is:

- Not located within an Aquatic Preserve, Monroe County
- A manatee "No Entry Zone" or "Motorboat Prohibited Zone" as specified in Chapter 68C-22, F.A.C.;
- Comprised of lands under the jurisdiction or management of the Department's Division of Recreation and Parks;
- Not subject to any conservation easement or restrictive covenant of record prohibiting the activity; and,
- Not revenue-generating.

In accordance with Rule 18-21.005, F.A.C., FDOT activities that may qualify for a "Letter of Consent" include the following:

- Construction, or replacement, of bulkheads, seawalls, or other such shoreline stabilization structures that extend <u>no more than three feet waterward</u> of the line of mean or ordinary high-water;
- Placement, replacement, or repair of riprap, groins, breakwaters, or intake and discharge structures no more than ten feet waterward of the line of mean or ordinary high-water;
- Artificial reefs or fish attractors that are constructed for public use;
- Public docks or piers that are exempt from permit requirements under Section 403.813(1), F.S., or that qualify as minimum-size docks or piers or are less than or equal to the 10:1 preempted area to shoreline ratio; boat ramps; channels; or swimming areas, provided that all such structures or activities are owned and operated by governmental entities, and any revenues collected are used solely for operation and maintenance of the structure or adjacent public recreational facilities; and,
- Emergency or other critical, time-sensitive activities necessary to enhance, protect or restore: public health, safety or welfare; utility service; the health of fish, other aquatic life, or other animals; or recreational, commercial, industrial, agricultural, or other reasonable uses. Unless the activity otherwise qualifies for a letter of consent under the provisions of this rule, the activity shall require the applicable form of authorization as specified in this rule within one year.

In accordance with Rule 18-21.005, F.A.C., FDOT projects that do not qualify for a "Consent by Rule" or "Letter of Consent" are required to use an <u>Sovereign Submerged</u> <u>Land lease</u> for the following activities:

• Docks or piers, boat ramps, or other similar activities that do not qualify for a consent by rule or letter of consent.

In accordance with Rule 18-21.005, F.A.C., FDOT projects that do <u>not</u> qualify for a "Consent by Rule" or "Letter of Consent" are required to secure a Sovereign Submerged Land lease for the following activities:

- Road and bridge crossings and rights of way, including such structures built prior to the need to obtain an easement when proposed for modification or repair;
- Groins, breakwaters, and shoreline protection structures, except when constructed as part of a docking facility that requires a lease;
- Public navigation projects other than public channels;
- Intake and discharge structures more than ten feet waterward of the mean or ordinary high-water line;
- Spoil disposal sites;
- Borrow areas that will be used for longer than five years for beach nourishment;
- Management activities, which include permanent preemption by structures or exclusion of the general public, associated with protection of threatened, endangered and special concern species, rookeries, artificial or natural reefs, parks, preserves, historical sites, scientific study activities, or habitat restoration or enhancement areas; and,
- Repair, replacement, or modification of a functional structure or activity constructed prior to that structure or activity being required to obtain an easement under this chapter.

In accordance with Rule 18-21.005, F.A.C., FDOT projects that may require an easement for the following activities include:

- Geophysical testing on all private, state-owned, or federal upland areas which involve any incidental crossing of sovereignty submerged lands; and
- Geophysical testing in bays, estuaries, or Florida Territorial Waters seaward of the MHW line and referred to herein as offshore testing.

4.7.3 Coastal Construction Control Line

In 1972, the US Congress passed the Coastal Zone Management Act (CZMA) to preserve, protect, develop, and where possible, restore and enhance the resources of the nation's coastal zone.

As a direct result of this act, the State of Florida has implemented a CCCL permitting program that is administered through FDEP. The CCCL is defined as the portion of the

beach and dune system subject to severe fluctuations based on a 100-year storm event (Chapter 62B-33, F.A.C.), and establishes the landward limit of jurisdiction of the FDEP along sandy beaches of the state which front on the Gulf of Mexico, the Atlantic Ocean, and the Straits of Florida. The CCCL has been established throughout Florida and can be searched through FDEP's mapping direct portal and zooming in to the area of interest (*http://ca.dep.state.fl.us/mapdirect/?focus=beaches*).

Pursuant to Chapter 62B-33, F.A.C., a permit is required from FDEP for construction and excavation activities seaward of the CCCL unless the proposed activity meets a specific exemption. If a proposed project also extends onto Sovereign Submerged Land seaward of the Mean High-Water (MHW) line, and involves impacts to wetlands or surface waters, a Joint Coastal Permit is required (see **CCCL Permitting Appendix**).

4.7.4 Outstanding Florida Waters

FDEP has designated certain Florida water bodies as Outstanding Florida Waters (OFW) through their Environmental Regulatory Commission, in accordance with Section 403.061(2), Florida Statutes. There are several protected OFW waterbodies in Florida, including Aquatic Preserves, waters within National Parks and National Forests, State Parks, and Wild and Scenic Rivers. All OFWs in Florida fall under one of the following three types:

- OFW Aquatic Preserves,
- Special OFWs, and
- Other OFWs

Note that while Aquatic Preserves are considered to be OFWs, they may have separate OFW and Aquatic Preserve boundaries. Examples of OFWs in Florida include Apalachicola Bay, Biscayne Bay, Mosquito Lagoon, Rainbow River, and the Florida Keys. A complete list of all OFWs in Florida is provided in Rule 62-302.700, F.A.C.

The relevance of the designation of OFWs to environmental permitting is that water bodies that receive this designation are afforded additional protection measures. An OFW designation provides that water body with an antidegradation standard for certain activities affecting water quality. State water quality rules mandate that discharges to OFWs must not exceed ambient water quality conditions. Furthermore, additional treatment of runoff from impervious surfaces is required prior to discharge into an OFW. For further information review the ERP Applicant's Handbook.

As a part of the review of ERP applications, an evaluation is conducted to determine whether discharges from a project will be directed to an OFWs or a water body that has been identified as impaired pursuant to Chapter 62-303, F.A.C. If a proposed project discharges to an OFW or an impaired water body, the agency reviewer will require that additional protective measures be incorporated into the project's design and operation to provide reasonable assurance that the proposed discharge will not cause or contribute to violations of state water quality standards. FDOT may be required to conduct a site-specific pollutant loading analysis and to increase the water quality treatment volume above the amounts required by the project pursuant to Section 4.2.1, Volume II. Typically, the proposed stormwater management system needs to provide an additional 50 percent of the required water quality treatment (per Application Handbook II - SFWMD 4.13; SWFWMD 4.1; SJRWMD 5.2.2). Best management practices (BMPs), source controls or protective measures may also be considered.

As part of the review of applications involving discharges to OFWs and water bodies, the State will evaluate "Impaired Waters" as defined by Chapter 62-303, F.A.C. Water bodies that have been assessed and determined to be impaired by the FDEP due to pollutant discharges are included on a "Verified List" adopted by FDEP Secretarial Order. Water bodies on the "Verified List" can be identified through the Environmental Screening Tool (EST) or from FDEP's web site at: <u>https://floridadep.gov/DEAR/Watershed-Assessment-Section</u>.

In addition to this water quality mandate, projects that propose discharges within an OFW must also be clearly in the public interest. This demonstration of "clearly in the public interest" is a more difficult regulatory requirement than is the case for projects that are in waterbodies that are not designated as OFW. Fortunately for FDOT, road projects are generally considered to provide a public benefit to the citizens of Florida, so the burden of proof is more justifiable than private development projects located in OFW's.

4.7.5 Water Quality (401) Certification

The EPA has delegated the authority to issue the Water Quality Certification and NPDES permits to the State of Florida. Both authorizations are related to the protection of water quality in the state.

The CWA established the Section 404 permitting program (33 U.S.C. § 1341) and requires issuance of the water quality certification prior to issuance of the Section 404 permit. The FDEP and all five WMDs have authority, delegated by the EPA, to certify compliance with applicable state water quality standards for federal licenses or permits issued under Section 404 of the CWA.

The EPA finalized the **Water Quality Certification Improvement Rule**, effective November 27, 2023. This modernizes procedures for the certification of compliance with state water quality standards. The rule requires the following:

- A pre-filing meeting is required at least 30 days prior to submitting a request for certification unless the certifying authority waives this requirement. FDEP, as the certifying authority, has waived the pre-filing meeting request requirement.
- All Water Quality Certification requests must include a copy of the ERP application, Notice of Intent to use an Environmental Resource General Permit, or Request for Verification of an Exemption; and any readily available water quality related materials that informed the development of the permit application.
- FDEP must act on a request for a Water Quality Certification within a reasonable period of time. FDEP has determined that a reasonable period of time is 365 days from the date the Water Quality Certification request is submitted.

More information can be found on **FDEP's Section 401 Water Quality Certification** webpage.

There are several ways of obtaining water quality certification. The first method is by issuance of the following types of permits:

- General ERPs;
- Individual or conceptual ERPs; and
- Joint coastal permits

The second method of receiving Water Quality Certification is to qualify for a waiver under the delegation, which is provided by the following stipulations:

- Activities that fall below permitting thresholds;
- Activities that are exempt by rule or statute from the requirement to obtain an ERP

If an FDOT project under Section 404 review does not require an ERP or meets one of the exemptions identified <u>Rule 62-330.051, F.A.C.</u>, then the reviewer can evaluate FDOT's application with the knowledge that Water Quality Certification is waived.

The Water Quality Certification requirement can also be waived under unusual circumstances when the proposed project results in the "net improvement provisions for water quality" provided by paragraph 373.414(1)(b), Florida Statutes. These projects are typically located in areas of poor water quality (i.e., "impaired waters" that do not meet current water quality standards). If an ERP is issued for the project, water quality in the area hydrologically connected to the project is improved, thus resulting in a "net improvement" of water quality. The USACE then has the option of issuing a Section 404 Permit based on this "net improvement."

FDOT sends a copy of the ERP to the USACE as appropriate to confirm Water Quality Certification in order for the Section 404 permit to be issued.

Finally, unless otherwise stated, the denial of an ERP application also constitutes denial of state Water Quality Certification. The Section 404 Permit will then typically be denied due to the lack of Water Quality Certification.

The Corps declined to rely on the Water Quality Certification for some Nationwide Permits (12, 29, 39, 40, 42, 43, 44, 48, 51, 55, 56, 57, and 58). Refer to the <u>Final Regional Conditions</u> for the 2021 Nationwide Permits in Jacksonville District (SAJ) for more information. NWPs that were not granted Water Quality Certification in the 2021 Nationwide Permit (NWP) re-issuance, must obtain an individual Water Quality Certification from the EPA or a waiver for a proposed discharge into waters of the U.S. As part of the Section 404 permitting process, USACE will send the Water Quality Certification to the EPA for review. The EPA has 30 days to review, but typically completes the review in a shorter time period.

4.7.6 Water Management District Right of Way Occupancy Permit

The South Florida WMD is responsible for the maintenance of the canals and levees that make up the District's flood control system. These canals and levees are designated as

"Works of the District." The purpose of the ROW Permitting Program is to ensure that the use or activity within a canal ROW does not impair the South Florida WMD's ability to access, operate and maintain the flood control system. The most common type of FDOT activities that require a ROW Occupancy Permit are the construction or improvements of bridge crossings over South Florida WMD canals and the construction or maintenance of outfalls into South Florida WMD Canals. The procedures to follow in the application process for a ROW – Occupancy Permit are described in the <u>ROW Permit Information</u> <u>Manual</u> that is available on the WMD website for those FDOT Districts that require ROW Occupancy Permits (which is primarily in South Florida). For further details see **ROW** Occupancy Permitting Appendix. Note that the applicant is responsible for demonstrating compliance with WMD guidance including directional and subaqueous drilling; specifications for structures within their ROW; maintaining existing water storage and flow; and de-watering aspects. The SFWMD maintains a <u>ROW permitting portal</u> to review and apply for ROW permits.

Before proceeding with a ROW permit application, first review the WMD Permitting Portal to determine the project area's permitting history. In some cases, more than one ROW permit may exist for a project area. In some cases, a permit modification may be all that is required. The permit modification can be done by checking the "modification of existing permit" box on the ROW Occupancy Permit Form through the WMD Permitting Portal System.

In certain cases, an applicant may wish to contact the WMD's permitting section to schedule a pre-application. Pre-application meetings are useful for complex or controversial projects when guidance from ROW permitting staff is desired. These may be scheduled in the form of a teleconference or a formal meeting, or at a project site.

Once a permit application has been received, it will undergo a sufficiency review to make sure it's complete. If there is anything that needs to be corrected, the WMD will notify the applicant and provide an opportunity to correct the application. In addition, a technical review will be conducted. A technical team will review the application and if any additional information is needed a Request for Additional Information (RAI) will be submitted to the applicant.

Once the ROW permit is issued, the applicant should review any specific conditions, and confirm if any documents are required to be provided at the completion of the work or activity. It is important to review the conditions of the ROW Permit because failure to comply with each condition may result in civil penalties, including fines. The ROW Permit will usually require a pre-construction meeting with District staff prior to beginning any project work or activity.



NOTE: Projects that require a SFWMD ROW Occupancy Permit also may require a 408 Permit from the USACE. As the local sponsor, SFWMD ROW reviews proposed modifications first and determines whether further USACE permitting is required.

4.7.7 National Pollutant Discharge Elimination System Construction Generic Permit

In Florida, authorization for the permitting process for the NPDES has been delegated from the EPA to FDEP. The FDEP NPDES Stormwater Program in Tallahassee is responsible for the development, administration and compliance of rules and policy to minimize and prevent pollutants in stormwater discharges. The purpose of the NPDES program is to prevent runoff overflows over land or impervious surfaces, such as paved streets and parking lots, from picking up pollutants like trash, chemicals, oils, and dirt/sediment and washing them into wetlands, rivers, streams and lakes.

A NPDES Construction Generic Permit (CGP) is required for all projects that will disturb greater than one acre of land, regardless of the total size of the project. For the purposes of the CGP, small projects include road projects that disturb between one and five acres, while large projects are those that disturb greater than five acres. An applicant seeking to apply for coverage under this generic permit for these types of projects may do so by completing a <u>Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities</u> issued in February 2015 under the provisions of Section 403.0885, Florida Statutes.

A CGP needs to be secured for stormwater discharge from construction activities¹. It is acquired once all environmental permits for a project have been issued and construction is scheduled. This permit is separate from the ERP and must be obtained directly from FDEP. The CGP is typically acquired by the construction Contractor and is in the Contractor's name. The permits can be applied for or reviewed through FDOT's Business Portal.

The primary purpose of the CGP is to ensure the implementation of appropriate pollution prevention techniques that properly manage stormwater and minimize erosion and sedimentation.



NOTE: For FDOT projects, the Contractor is responsible for obtaining any required NPDES Permit from FDEP.

This generic permit is a statewide authorization for construction methodologies, as developed by the Contractor, that meet all the Generic Permit conditions. These conditions are generally described in the Stormwater Pollution Prevention Plan (SWPPP) developed for construction projects exceeding one acre of disturbed land.

The CGP now includes protection for the discharge of water from dewatering operations needed to construct road projects. All dewatering operations also require the

¹ Projects that do not disturb one acre or more of land do not require an NPDES permit. These projects may still require an erosion control plan to address sediment and erosion control and water quality BMPs. This plan should be included in project scoping for small bridge/culvert projects that must address these items but will not formally need the NPDES permit.

implementation of a set of BMPs to prevent violations of state water quality standards. The most common BMPs for treating the dewatering discharges include:

- Sediment traps and basins;
- Weir and dewatering tanks;
- Filters; and
- Chemical treatment.

These technologies provide many options for achieving sediment removal. Sediment particle sizes are a key consideration in selecting sediment control options for dewatering operations.

4.7.8 Erosion and Sediment Control

The <u>Erosion and Sediment Control, Designer and Reviewer Manual</u>, which was jointly developed by FDOT and FDEP, identifies BMPs for use during and after construction to minimize erosion and sedimentation, and to properly manage runoff for both stormwater quantity and quality. A Stormwater Runoff Control Concept (SRCC) is included in the set of construction drawings per Part 2, Chapter 251 of FDOT's Design Manual. The goal of the SRCC and SWPPP is to avoid any violations of water quality standards. The typical components of the SWPPP include:

- The Narrative Description which provides general information on the project (description of construction activities and a sequence of soil disturbing activities) and refers to the Standard Specifications and the Design Standards as necessary to ensure that the project minimizes environmental damage;
- Area estimates for disturbed land and calculations used in completing the design for the Erosion and Sediment Control drawings;
- Erosion and sediment control drawings showing the pre- and post-development drainage patterns, critical areas such as wetlands and major discharge points, controls (structural, non-structural, erosion and sediment), existing vegetation and the limits of clearing, discharge locations, stabilization practices, structural practices, and sediment basins, and post-construction stormwater management measures;
- Controls for other potential pollutants such as waste disposal, offsite vehicle tracking, the proper application of fertilizers/herbicides/pesticides, and the proper storage of toxic materials; and
- Records Requirements documenting how the inspection records will be maintained for the project.



HELPFUL HINTS: Guidance for BMPs is provided in the Erosion and Sediment Control Manual. Additional guidance is provided in the Florida Stormwater Erosion and Sediment Control Inspector's Manual.

4.7.9 Erosion and Sediment Control Plan

Per FDOT's Standard Specifications for Road and Bridge Construction (Section 104 Prevention, Control, and Abatement of Erosion and Water Pollution, 104-5 Preconstruction Requirements), when a FDEP CGP is issued, the Contractor's Erosion and Sediment Control Plan shall be prepared to accompany FDOT's SWPPP. Prior to a project's Preconstruction Conference, the Contractor is to submit its Erosion and Sediment Control Plan. The plan shall meet the requirements or special conditions of all permits authorizing project construction. FDOT will review the Erosion Control Plan to ensure that it includes procedures to control off-site tracking of soil by vehicles and construction equipment and a procedure for cleanup and reporting of non-storm water discharges, such as contaminated groundwater or accidental spills. No soil disturbing activities shall be started until FDOT approves the Contractor's Erosion Control Plan, including required signed certification statements. Any soil disturbing activities performed without the required signed documents or certification statements may be considered a violation of the FDEP Generic Permit.

The Erosion Control Plan shall describe, but not be limited to:

- 1) The following items or activities:
 - o Locations of all erosion control devices
 - o Types of all erosion control devices
 - Estimated time erosion control devices will be in operation
 - o Monitoring schedules for maintenance of erosion control devices
 - o Methods of maintaining erosion control devices
 - o Containment or removal methods for pollutants or hazardous wastes
- 2) The name and telephone number of the person responsible for monitoring and maintaining the erosion control devices.

- 3) Erosion Control Plans shall meet:
 - Projects permitted by the Southwest Florida Water Management District (SWFWMD), require the following:
 - Submit a copy of the Erosion Control Plan to the Engineer for review and to the appropriate SWFWMD Office for review and approval. Include the SWFWMD permit number on all submitted data or correspondence.
 - The Contractor may schedule a meeting with the appropriate SWFWMD Office to discuss the Erosion Control Plan in detail, to expedite the review and approval process. Advise the Engineer of the time and place of any meetings scheduled with SWFWMD.
 - Do not begin construction activities until the Erosion Control Plan receives written approval from both SWFWMD and the Engineer.
 - Projects permitted by the South Florida Water Management District or the St. Johns River Water Management District, require the following:
 - Obtain the Engineer's approval of the Erosion Control Plan.
 - Do not begin construction activities until the Erosion Control Plan receives written approval from the Engineer.
 - Projects authorized by permitting agencies other than the Water Management Districts or projects for which no permits are required require the following:
 - The Engineer will review and approve the Contractor's Erosion Control Plan.
 - Do not begin construction activities until the Erosion Control Plan receives written approval from the Engineer.
 - Comply with the approved Erosion Control Plan.

SECTION 5: KEY RESOURCE IMPACTS

5.1 Identification and Quantification of Impacts

The process to identify and quantify environmental impacts consists of a desktop evaluation of available information, including previous project documents (i.e. Project Development and Environment (PD&E) Documentation), Geographic Information System (GIS) layers; field reviews; wetland/habitat delineations and assessments; general listed species surveys, and occasionally species-specific surveys (which can occur as the design progresses); previous permits and conditions (if project is being modified); and agency coordination.

Documentation compiled during the PD&E Phase (if conducted) should be reviewed to evaluate any potential project issues previously identified. The results of the technical studies produced, and agency consultation completed during a PD&E Study may be used to support permit application packages. The Environmental Permit Coordinator (EPC), in coordination with the Environmental Management Office (EMO), needs to determine if the information requires updating. The U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) have general species survey time constraints, for example the results of a bridge benthic survey are typically only valid for two-years and would need to be updated for a permit application. In some cases where design and right-of-way changes have occurred, a PD&E Re-evaluation may have been conducted that can provide more recent information. Commitments of various types (e.g., protection of threatened and endangered species, or historic resources), as part of the avoidance and minimization process, are developed during PD&E and detail the manner in which the Florida Department of Transportation (FDOT) will comply with obligations or special conditions before, during, and after a project's construction. It is important to review these documents to ensure that these commitments are carried forward during the design and permitting of a project. FDOT's Project Manager (PM) and EPC will use this information to help draft the scope for the design of the project. A review of the Commitments in the ProjectSuite Enterprise System (PSEE) can provide insight into the commitment status.

Also, an initial desktop review of pertinent environmental databases and GIS platforms [e.g., Google Earth; ETDM Environmental Screening Tool (EST); Water Management District (WMD) databases and mapping; federal and state regulatory agencies] is conducted to gain a basic understanding of the project area. The goal of this desktop review is to identify potential protected resources (e.g., wetlands, surface waters, protected (threatened/endangered) species and habitats, etc.) in the project area to assess whether the proposed work for a project, may result in impacts to the identified resources. It is important to identify where potential jurisdictional wetlands and other surface waters such as lakes, rivers, and tributaries occur, and whether there may be potential impacts from the proposed project. Along with the project location, these resources (land cover, wetlands, and surface waters) assist with assessing potential listed species occurrences.



HELPFUL HINTS: The Environmental Screening Tool (EST) is a tool that centralizes GIS data-sources. An interactive map can be accessed through the public site. Data layers can be turned on and off for analysis of project conditions. In the Resource Data Box on the left-hand side of the EST screen is a list of data layers. Below is a quick reference list. The EST is updated continuously, layers listed below may change.

EST Search Layers

Social and Economic

- 1. Aesthetic Effects Scenic Hwy.
- 2. Climate and Economic Justice
- 3. WMD Industrial Areas
- 4. Land Use Changes
- 5. Relocation Potential
- 6. Demographics
- 7. Farmland
- 8. Community and SCE

Natural

- 1. Coastal and Marine
 - Coastal Barrier Resources
 - Coastal Construction Control Lines
- 2. Floodplains
 - Flood Zones
- 3. Geology
- 4. Land Cover vegetative and land use
- 5. Soils hydric soils
- 6. Water Quality and Quantity
 - Aquifers
 - Elevation
 - National Hydrography Datasets
 - Permits
 - Springs
 - Water Quality
 - Minimum Flow Levels
 - Wells
 - Wetlands and Surface Waters
 - Mitigation Mitigation Service Areas
 - Jurisdictional Waters
 - National Wetlands Inventory Areas
 - WMD Wetlands
 - Submerged State Lands Records

Physical

7.

- 1. Contamination
- 2. Infrastructure
- 3. Navigation
- 4. Noise

Special Designations

 Water Resources Designations (Wildlife & Scenic Rivers, Sole Source Aquifers, Outstanding FL Waters)

Cultural and Tribal

- 1. Archaeological and Historical Resources
- 2. No SHPO Survey
- 3. Archaeological and Historical Resources (Restricted)
- 4. Historical Aerial Photographs
- 5. Tribal Resources
- 6. Recreational Areas
- 7. Year Built
- 8. Wildlife and Habitat
 - ARC Lands
 - Conservation
 - Florida Wildlife Corridor
 - Ecological Greenways Network
 - Critical Lands and Waters Id (CLIP)
 - Green Links
 - Critical Habitat
 - Essential Fish Habitat
 - Consultation Areas
 - Species Occurrence
 - FNAI Element Occurrence
 - eBird
 - INaturalist
 - Habitat
 - Sea Turtle Lighting
 - Critical Everglades Restoration
 Projects
 - Wildlife Crossing Consideration

If the proposed project has wetlands impacts, it is beneficial to identify mitigation banks that have service areas (basin(s) in which the bank has regulatory approval to mitigate within) that overlap the project area. The service area can be identified using the EST or the U.S. Army Corps of Engineers (USACE) Regulatory In-lieu Fee and Bank Information Tracking System (RIBITS) system. In addition, it is important to contact the bank directly to determine what credits are available, how many, what type, and at what cost. Mitigation is finalized as a part of the agency coordination during the permitting process; however, the early identification of available mitigation options reduces the risk of impacting the project schedule. If the project had a PD&E phase, it would be at this point that the previously discussed mitigation option(s) would be reviewed to determine if the(se) option(s) is (are) still viable for the project. For larger and/or more complex projects, a Mitigation Plan is included in the Environmental Document. The District EPC, in coordination with PM and EMO, will develop the final mitigation. FDOT is required to bid out the required mitigation to receive competitive bid prices (see FDOT Mitigation Mechanisms section).

All permitted mitigation banks throughout the state are listed through the <u>Florida</u> <u>Department of Environmental Protection (FDEP) Mitigation Banks</u> website, and the WMDs include mitigation bank information on their individual websites as well. The USACE also has an internet-based tracking system that provides information on mitigation banks through its <u>RIBITS</u> website (see **Wetland Mitigation Appendix**).

The project team needs to be informed of the results of this initial field review analysis, as early identification of potential impacts will help ensure that avoidance and minimization measures can be developed. Additionally, the field review should identify any potential complications that may result in a delay of schedule. Examples of potential complications include:

- Previously undocumented occurrence of listed species, habitat, or nests;
- Limited windows for species surveys (e.g., caracara, sand skink, benthic surveyssee <u>Table 5-1</u> – Examples of Seasonal Protected Species Survey Restrictions.)
- Aquatic preserve impacts;
- Discovery of conservation easements or protective restrictions
- Impact increase (if project is being modified); and,
- Conditions within permit (if project is being modified) that would prevent the proposed footprint (i.e., wetlands areas to be preserved in perpetuity/conservation areas). The appropriate WMD e-permitting database can be queried to see if any onsite wetlands have already been permitted for impact (mitigated) or are currently under Conservation Easement constraints.

5.1.1 Florida Regulated Species and Habitats

Listed species surveys and data would likely have been gathered for preliminary analysis during the PD&E phase (if a study occurred for the project). This information can be reviewed as the starting point for permit application package preparation. For non-major projects, federally endangered and threatened species can be found on the USFWS Information for Planning and Conservation (IPaC) website. A list of Florida's Endangered and Threatened Species can be located on the Florida Fish and Wildlife Conservation Commission (FWC) website. These resources are important to review, particularly for projects with no PD&E phase. The Florida Natural Areas Inventory (FNAI) maintains a website that can be used to conduct a biodiversity matrix query of species information by geographic region. The National Oceanic and Atmospheric Administration (NOAA) Fisheries, or NMFS, maintains an Essential Fish Habitat Mapper website and an Endangered Species Act (ESA) Section 7 Mapper website. In addition, FDOT's EDTM Environmental Screening Tool (EST) contains GIS data layers for species consultation areas, critical habitat, species occurrence data, and habitat. The Permit Handbook Appendices also include information for listed species (see Species Appendices).

5.1.2 Data Collection

Desktop Reviews

Initial wetland data would have been gathered during the PD&E phase (if a study occurred) and can be used as the starting point for the collection of this data. Online sources can be utilized to collect data on the existing wetlands mapped within a given project area. One source is the USFWS *National Wetlands Inventory (NWI) Mapper*. This mapper provides a baseline understanding of where potential wetlands have been identified and where potential impacts may occur from a proposed project. The NWI layer is updated periodically and should be relied upon only as a preliminary source for project background information. The NWI site can produce reports and figures for reference.

The use of soil maps and soil databases to identify mapped hydric soils can also help refine the baseline wetland data during this process. The <u>Soil Survey Geographic Database</u> provides soil data produced and distributed by the Natural Resources Conservation Service (NRCS), which can assist in refining the potential extents of mapped wetlands obtained from the online resources.

In addition, historic aerial photos may assist to identify the land uses within a project area, prior to development or the construction of a roadway. One of the best sources for historic aerials in Florida can be found at the <u>University of Florida Aerial Photography</u> website. Using the historic aerials during the desktop analysis, changes to the project area can be assessed over time, potential wetland communities can be identified, and land cover changes documented.

The goal of the desktop review is to identify which potential natural resources occur in the project area, to get a general idea of where these resources potentially occur in relation to the proposed project work, and to inform the reviewer as to what (if any) field reviews or other items would be needed for the project in order to fully analyze/determine impacts. Field reviews may include activities such as wetland assessments/delineations, species specific surveys, geotechnical surveys, etc.

Field Reviews

Field reviews should be conducted to verify onsite project conditions. The data gathered during field reviews will be incorporated into the permit application and includes the land use or cover types, wetland limits, potential habitat for threatened or endangered species, wildlife utilization, and any other observations relevant to the potential impacts from the project on the environment.

Once the Design phase has kicked off (either in-house or under contract), the first permitrelated tasks are typically the ecological field reviews of the project area. During the initial field events, the environmental scientist will identify and classify the existing habitat types of all undeveloped areas with regard to potential utilization by listed species as well as any observed wildlife. Photographs are to be taken of all undeveloped habitats, including each wetland type. The data will assist to formulate the environmental permitting support document that will be submitted as part of the permit application.

If pertinent to the project's scope and limits, environmental scientists should delineate the limits of wetlands and other surface waters early in a project's design phase. The determination of whether an area would be classified as a jurisdictional wetland for the USACE limits is based on the presence of three (3) criteria: vegetation, soils, and hydrology. In general, a wetland must demonstrate that it meets all three criteria to be considered a wetland by USACE. For FDEP and WMD, at least two of the same criteria required by USACE must be present for an area to be considered a wetland. It is recommended that the limits of proposed work be prepared in a GIS map atop aerial imagery to determine areas that could impact undeveloped areas (habitats); this will allow for more appropriate field surveys as the areas with potential for wetland impacts can be further evaluated prior to field efforts to allow for more efficient field reviews. GPS technology would allow an environmental scientist to view the proposed limits of work in comparison to their physical location to determine if any proposed work may encroach into a jurisdictional wetland or other potentially protected habitat type. Draft GIS map sets of the project study corridor are generally produced at this time to support the fieldwork. This preliminary map set will evolve into the map set that is eventually used for the permit application submittal. Correspondence with agency staff during the permit application submittal process should be directed through the EPC, in coordination with EMO, unless prior permission is granted to coordinate independently.

5.1.2.1 Jurisdictional Wetland Determination

Informal Jurisdictional Wetland Determination

As per Section 373.421, F.S., FDEP and WMDs can provide an informal wetland verification and determination without a completed permit application. This informal review provides FDOT with the agencies' position on wetlands prior to formally applying for permits. This often allows the project team to know in advance whether the wetland lines are correct and the quality of the wetlands thus helping with any mitigation plans. These reviews are not subject to timeframes, and as such, are reviewed subject to the availability of the regulatory reviewers. However, these informal approvals can serve the same purpose as a formal wetland determination if followed by an Environmental Resource Permit (ERP) application submittal within a reasonable period (<12 months).

Prior to the informal agency wetland field review, the environmental scientists should delineate the limits of wetlands and other surface waters. Note: sometimes the limits of wetlands and other surface waters are generally referred to as 'wetland limits' or 'jurisdictional limits'. Environmental scientists will conduct the delineation by flagging (or simply taking GPS points corresponding to these 'flagged' wetland limits) the wetland limits according to the state and federal delineation methods (referenced below) and labeling each wetland flag placed with a unique number. This delineation will serve as the basis for the wetland impact assessment, which is a very important part of the permitting process. It is prudent that the environmental scientist participates in progress meetings to ascertain whether additional right of way (ROW) areas are added to the project limits, including but not limited to pond sites, which may necessitate additional delineation events. It is recommended for EPCs to accompany the environmental scientists on one or more of the field delineation days.

The federal wetland delineation methods are illustrated in the <u>1987 Corps of Engineers</u> <u>Wetland Delineation Manual</u> (Technical Report Y-87-1), <u>Regional Supplement to the Corps</u> <u>of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version</u> <u>2.0)</u> (ERDC/EL TR-10-20), and the state delineation methodology is presented in <u>Chapter</u> <u>62-340</u> F.A.C., Delineation of the Landward Extent of Wetlands and Surface Waters.



A wetland jurisdictional determination is a decision by a federal (USACE under the Clean Water Act) or State (FDEP or WMDs - Chapter 62-340, F.A.C.) agency as to whether a wetland, lake, pond, or stream can be claimed under its regulatory authority.

Some surface water limits require the placement of flags in the field, while others do not. Surface waters with a distinct channel or bank may use the "top of bank" elevation as the other surface waters limit. If the surface water is not a feature defined as "top of bank," those areas are most often field delineated with pin flags with unique numbers in the same manner as the wetland delineation. In accordance with Rule 62-340.600, F.A.C., the landward extent of surface waters shall be the more landward of the following:

- a) Wetlands as located by Rule 62-340.300, F.A.C., of this chapter;
- b) The mean high-water line elevation for tidal water bodies;
- c) The ordinary high-water line for non-tidal natural water bodies;
- d) The top of the bank for artificial lakes, borrow pits, canals, ditches and other artificial water bodies with side slopes of one foot vertical to four feet horizontal or steeper, excluding spoil banks when the canals and ditches have resulted from excavation into the ground; or
- e) The seasonal high-water line for artificial lakes, borrow pits, canals, ditches, and other artificial water bodies with side slopes flatter than one foot vertical to four feet horizontal along with any artificial water body created by diking or impoundment above the ground.

Determinations made pursuant to paragraphs (b) and (c) shall be for regulatory purposes, and are not intended to be a delineation of the boundaries of lands for the purposes of title. Any alternate delineation methods for surface waters should be discussed with the EPC and then the agencies.

Once the wetland and other surface waters limits (and seasonal high-water level elevations²) have been established in the project area, it is prudent to seek concurrence from the state and federal regulatory authority that will be reviewing the permit applications. Consultants should contact each District's EPC to determine the preferred protocol for obtaining agency concurrence.

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HELPFUL HINTS: The field reviews with regulatory staff provide an excellent opportunity to assess each wetland function directly with the reviewer.

It is recommended that a map set depicting the limits of flagged wetlands be submitted to the regulatory field staff ahead of the scheduled field events.

Formal Jurisdictional Wetland Determination

Additionally, an applicant may petition the WMD for a formal determination of the landward extent of wetlands and other surface waters (known as a jurisdictional determination or "JD"). This binding determination can be secured for a period of five-years and extended if requested (with or without additional field reviews, at WMDs discretion) to verify that the approved wetland determination still meets the state criteria. If the site is less than ten-acres, the petitioner is not required to pre-flag the site prior to agency verification. This formal determination may be beneficial to an applicant for site planning purposes and/or to conduct preliminary estimates of potential wetland impacts, mitigation costs or preservation value.

To process this type of determination, an applicant must submit an application (also called a petition) that includes an aerial depicting the preliminary established limits of wetlands and surface waters. This aerial is only required if the site is more than ten-acres in size. WMD staff then review and approve (or adjust) the location of the wetland delineation. To finalize this determination, boundary surveys (signed and sealed by a professional land surveyor) that depict the limits of the approved wetlands must be submitted to the WMD. A standard form is available online: <u>Petition for a Formal</u> <u>Determination of the Landward Extent of Wetlands and Other Surface Waters</u>.

² Seasonal high-water level elevations (set with the use of biological indicators), combined with the separate subsurface geotechnical analysis, are critical elements in the drainage design for projects in non-tidal areas. seasonal high-water level elevations are typically established within each wetland system as a series of three points. These elevations are needed to assist the drainage engineer with the assessment of ponds and other drainage features, though they may not be needed for every project. The data are typically required for projects that have drainage features near wetlands, and/or for the drainage engineer to meet surface drainage criteria. Prior to the field event, the environmental scientist should coordinate with the design drainage engineer regarding the setting seasonal high-water level elevations.

The petitioner may request either a "formal" wetland determination, which requires a certified survey of the delineation, or an approximate determination, which depicts the approximate boundaries of the field verified limits of wetlands and surface waters. Note that with an approximate determination, the accuracy of the Global Positioning System (GPS) points at a minimum distance of one point per 1,000 feet is required.



HELPFUL HINTS: FDOT petitioning for a formal wetland determination would be uncommon, and likely associated with a large regional mitigation option.

5.1.2.2 Jurisdictional Wetland Survey Coordination

The limits of the jurisdictional wetlands and surface waters will be included on the project plans, permit sketches, and supporting figures, all of which will be required for the permit application. The environmental scientist, using GIS equipment, will locate the limits of wetland and other surface waters and work with the roadway engineer to ensure that these limits are displayed on the project plans using the universal wetland hash mark symbol(s) (see Section 3.7.4.1 of the **FDOT CADD MANUAL**). Coordination is especially important for the permit sketches, which will depict the wetland and surface water impacts that will be included in the issued permit.

Environmental staff should closely coordinate with the Design team surveying staff to record the locations of all surveyed wetland field data (e.g., wetland lines; USACE data form sampling locations; Mean High-Water (MHW)/Mean Low-Water (MLW) lines; seasonal high-water level). After flagging wetland and surface water limits and setting seasonal high-water level elevations, it is important to create a map for the survey crew that displays the locations of the placed flags. It may also be beneficial to provide a Google Earth™ KML or KMZ file that includes the geographic information, to further aid the survey crew in locating the flagged areas. Consistent flagging colors/material and nomenclature, as well as recording each flag location on maps, are recommended for easy coordination with the surveyors.

To avoid additional mobilization, the establishment of wetland limits and surveying of associated data points should coincide with times when the survey crew is already working along the corridor.



BEST PRACTICES: It is important that the field data markers (wetland flags, seasonal high-water level limits) are not established too long before surveyors locate them, as flags can bleach out in the sun, be mowed over, or vandalized.

5.1.2.3 Hydrophytic Vegetation

Nearly 5,000 plant species and subspecies in the United States, and over 1,400 in Florida, occur primarily in wetlands. These plants are known as hydrophytic vegetation and are listed in regional publications of the USFWS. Common hydrophytic vegetation include cattails, cordgrass, bald cypress, willow, mangroves, sedges, and rushes. <u>Figure 5-1</u> presents a graphic for a typical jurisdictional wetland. It is not necessary to know all wetland plant species to identify wetlands. Wetland jurisdictional determinations usually can be accomplished by knowing the most common wetland species, upland species, and transitional species routinely present within the geographic area where the project occurs.

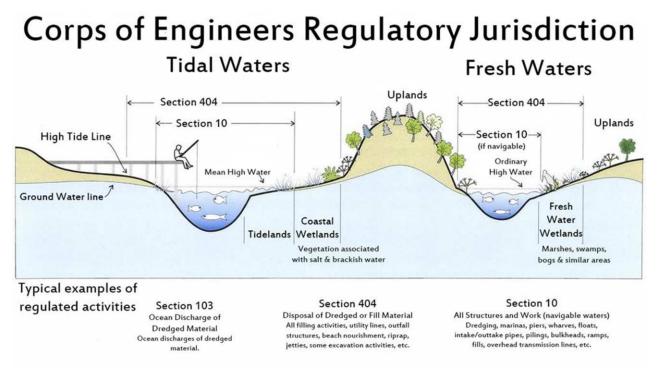


Figure 5-1 Typical USACE Freshwater Wetland Jurisdiction (Source: USACE)

To be considered a wetland by USACE, an area must support a "prevalence of wetland vegetation." This can be a simple test in wetlands dominated by hydrophytic vegetation but can be challenging in transitional wetlands that may include a combination of upland and wetland vegetation. The identification of the limits of transitional wetlands may require the involvement of a botanist with an extensive knowledge of plant species.

Wetland plants are assigned an "indicator status" by a cooperative effort among multiple federal and state agencies, the scientific community, and others. This status reflects the tolerance of the plant to saturated conditions, and the plant's frequency of occurrence in wetlands. The indicator status categories of plants found in wetlands include:

- 1. **Obligate wetland plants** plants that occur in wetlands > 99% of the time.
- 2. Facultative wetland plants plants that occur in wetlands 67 99% of the time.
- 3. Facultative plants plants that can be in wetlands or uplands 34 66% of the time.

The indicator status for a given plant species can be found in the <u>National Wetland Plant</u> <u>List.</u> By estimating the relative proportion of obligate, facultative wet, and facultative plants (by stratum) within a given area, a "prevalence of wetland vegetation" can be confirmed or refuted. See the USACE *Regional Supplement* cited previously for more information on hydrophytic vegetation.

5.1.2.4 Hydric Soils

Hydric soils have characteristics that developed in conditions where soil saturation and biological activity depletes soil oxygen for extended periods during the growing season. The oxygen depletion usually produces changes in soil features (color; color patterns; mineral concentrations or depletions; organic matter content) that can be observed as field indicators of hydric soils. Hydric soil lists for each county can be obtained from the NRCS and compared to soil survey mapping for the project site, which can indicate the potential for hydric soil occurrence.

A detailed discussion of the hydric soil indicators found in Florida can be found in the USACE Regional Supplement cited earlier, and in publications from the <u>Florida Association</u> of <u>Environmental Soil Scientists (FAESS)</u>. While some of the more obvious hydric soil indicators and hydric soils can be documented by personnel with only minimal hydric soils training, in-field verification of some hydric soils may require examination by an experienced soil scientist.



HELPFUL HINTS: There are professional soil scientists located throughout Florida that can assist in the identification of hydric soils. NRCS maintains a directory of local NRCS service centers, and a list of certified professional soil scientists is available from FAESS.

5.1.2.5 Hydrology/Hydrologic Indicators

Wetland hydrology refers to the presence of water at or above the soil surface for a sufficient period of the year to significantly influence the plant types and soils that occur in the area. Most hydrologic indicators are those that can be observed during field inspection. The following indicators provide some evidence of the periodic presence of flooding or soil saturation:

- 1. Standing or flowing water is observed on the area during the growing season.
- 2. **Soil** is waterlogged (saturated) during the growing season.
- 3. **Watermarks (staining)** are present on trees or other standing objects. Such marks indicate that water periodically covers the area to the depth of staining.
- 4. **Drift lines**, which are small piles of debris oriented in the direction of water movement through an area, are present. These often occur along contours and represent the approximate extent of flooding in an area.
- 5. **Debris** is lodged in trees or piled against other objects by water.

6. Thin layers of sediments are deposited on leaves or other objects. Sometimes these become consolidated with small plant parts to form discernible crust on the soil surface.

HELPFUL HINTS: Hydrologic indicators are most visible during the rainy season. It is important to be aware of the amount of rainfall recently received by the project site to determine if site conditions during the site inspection are normal or atypical (i.e., if an unusual rain event had just occurred).

5.1.2.6 Acres and Type

Once it is determined that an area is a wetland, then it is necessary to identify the type and quantify the impact. Potential wetlands fall into two major categories: freshwater and coastal (estuarine). Freshwater wetlands generally include herbaceous wetlands, also called emergent (plants that emerge from the water's surface) and include such species as sawgrass, cattails, reeds, bulrush, etc.; forested wetlands such as cypress domes or stands, tupelo stands, and bayheads; and stream bank such rivers, creeks, and springs. Coastal wetlands generally include estuarine herbaceous such as salt marsh and tidal flats; and estuarine forested such as mangrove and buttonwood forests. Analysis of impact is based on wetland functionality (see <u>Section 5.3</u>).

5.1.2.7 United States Army Corps of Engineers Wetland Data Forms

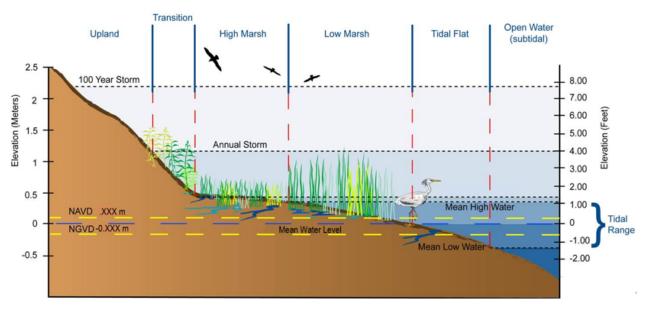
The USACE Wetland Determination Data Forms are included in the application package, especially when the project proposed is complex or if discrepancies exist that require coordination. The forms are a requirement prescribed by the <u>USACE 1987 Wetland</u> <u>Delineation Manual</u> and the *Regional Supplement*. A map (sketch) showing the locations of the sampling points should be provided. The number of data forms (sampling points) will vary with the complexity of the site but should demonstrate the method for which the line between the wetland/non-wetland interface was determined.

A data form is completed for each side of the jurisdictional line (upland and wetland) at each sampling location. The data forms provide a summary of wetland vegetation present, the percent coverage by wetland species, a description of the soil types included on the project area and a listing of hydrologic indicators present at the sampling site(s).

The Preliminary Jurisdictional Determination Form is occasionally used to provide the permit reviewer additional information for the Dredge & Fill permitting process so as to reduce the likelihood of questions or requests for additional information. The <u>Preliminary</u> <u>Jurisdictional Wetland Determination Data Form</u> can be downloaded for reference. First a site inspection is conducted to identify the limits of jurisdictional methods within the project corridor, using the methodology broadly described in <u>Section 5.1.2.1</u>. The Preliminary Jurisdictional Determination Form is completed with basic background information and supporting data, submitted to USACE, and is processed with a desktop review and/or field review.

5.1.2.8 Mean High-Water/Mean Low Water

Mean High-Water (MHW) and Mean Low-Water (MLW) elevations are associated with the normal daily fluctuations in tidal waters along the coast (see <u>Figure 5-2</u>). The MHW can be critical since it can represent the limits of jurisdiction in tidally influenced wetlands or surface waters (see <u>Figure 5-1</u>). The identification of mean high- and mean low-water elevations are also important in the design of tidal wetland mitigation plans (see <u>Figure 5-</u><u>3</u>). The elevations of MHW and MLW can found on the FDEP's <u>Land Boundary Information</u> <u>System website</u>. When applicable, a graphic should depict MHW and MLW elevations in permit applications.





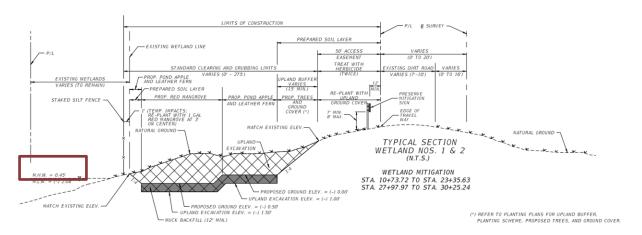


Figure 5-3 Example of the Importance of MHW and MLW Elevations relating to Wetland Mitigation Design, Hydrology, and to Assure Compliance with Permitted Elevations and Wetland Plantings.

5.1.2.9 Wetland and Other Surface Waters Map

A wetland map (see <u>Figure 5-4</u>) typically includes an aerial photo with wetlands, surface waters, and stormwater features GIS located in different colors and hatchings. Each wetland, surface water, and stormwater should be given a name and a number so that they can be referenced in reports and forms. If there are different types of wetlands, they can be given different names to separate them out by type and number. In some cases, depending on map size, acreages can be added within each wetland area. The map should also include:

- Map Name
- North Arrow
- Legend
- Distance scale
- Roadway Names
- Water Body Names
- Project Name
- Project Limits
- Project County
- FM Number
- ETDM Number, if applicable, and
- FDOT Logo



Figure 5-4 Example of Wetland and Other Surface Waters Map

5.1.2.10 Benthic Surveys

Benthic surveys are generally conducted for FDOT bridge projects crossing surface waters (i.e., bays, lagoons, rivers, etc.) and for road projects adjacent to open water areas. The primary difference between wetland determinations and benthic surveys is that benthic surveys are always conducted in areas that are jurisdictional for both State and Federal environmental permitting agencies. The purpose of the benthic survey is to document the presence and limits of protected resources including seagrasses, submerged aquatic vegetation (SAV) and live/hard bottom communities including oysters, corals, and sponges (see *Figure 5-5*). In addition, a benthic survey documents any listed species, such as corals, as well as any Essential Fish Habitat (EFH). A site-specific survey methodology must include the determination of the location, percent coverage and distribution of submerged ecological resources. In addition, a Uniform Mitigation Assessment Method (UMAM) is often used as a means of determining the functional value of submerged aquatic habitat (seagrass/hardbottom).

SAV coverage varies seasonally/annually; as such, regulatory agencies have established survey protocols that include seasonal restrictions for benthic surveys. Advanced planning is therefore required to conduct benthic surveys within the seagrass growing season. In Florida, the seagrass growing season generally runs from June 1st through September 30th.

However, in some circumstances the regulatory agencies (NMFS, FDEP, and WMDs) may allow surveys to be completed at other times during the growing season. For example, under some circumstances, the regulatory agencies may accept surveys from April to October in most of the state and year-round surveys may be acceptable in Monroe County and southern Dade County. Coordination with the regulatory agency prior to initiating field work is strongly encouraged; early coordination is especially important if an application will be submitted with data from surveys conducted outside of the growing season. Note that the benthic survey results would also guide the EFH assessment for a project (see **Essential Fish Habitat** <u>Section 5.1.3.3</u>).

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HELPFUL HINTS: Seagrass surveys are to be conducted between June 1 and September 30 in accordance with established NMFS and FDEP guidance which emphasizes the need for the surveys to occur concurrently with the period of maximum seasonal abundance.

Benthic surveys require on-site data collection as the use of aerial photography has not proven to be a reliable method of accurately assessing the occurrence of submerged resources because of water depth and reflectance of sunlight off the water surface. Conducting benthic surveys can be time consuming. Specialized equipment including boats and scuba equipment may be required to conduct the survey.

Benthic surveys are generally completed using a combination of reconnaissance swims to get a general idea of resource areas. Once the benthic resources are identified, sampling methodology using transects and quadrats covering the project area are typically utilized. The benthic survey area should include the proposed project area and include a buffer distance to account for potential indirect impacts (i.e., turbidity impacts). The use of a buffer ensures that all resources requiring a survey are covered and allows an evaluation of indirect impacts beyond the project area. Additionally, if design changes occur in the future, there is a higher likelihood that the expanded buffer could accommodate the increased construction footprint. The size of this buffer is determined by professional opinion/expertise and varies according to the scope of the proposed work. In general, as most in-water work could require barge use during construction, the benthic survey should account for potential barge use in the survey area buffer. Regulatory agencies may also request barge routes to/from the project site, as well as barge staging areas to be identified as part of the permitting process. The planning of a benthic survey should account for these potential requests by regulatory agencies.

The use of quadrats helps in estimating the percent coverage of any identified submerged aquatic resources. Coverage data may be needed to fully quantify resource impacts. Large projects or projects with unique characteristics should coordinate with the NMFS representative in advance of the survey to discuss any questions on methodology prior to conducting the survey.

Benthic surveys use GPS points to create an accurate identification of the survey limits, as well as to document the grid system used for the transect lines. Underwater notes and data are taken to document all species observed as well as the estimated percent coverage, conditions, and spatial distribution of all SAV and/or coral species. During the survey, it is important to document all vertebrate and invertebrate species observed in order to better gain an understanding of the existing marine habitat in the project area to determine if it could be utilized by protected aquatic species.

In addition to a description of the observations and species data developed from the survey, standard reporting requirements for benthic surveys must include the date and time of the survey, weather conditions during the survey, underwater visibility, tidal conditions, benthic substrate details (e.g., silty-mud bottom, sand-bottom, rocky-bottom, etc.), water depths, and a map representing methodology and/or survey results.

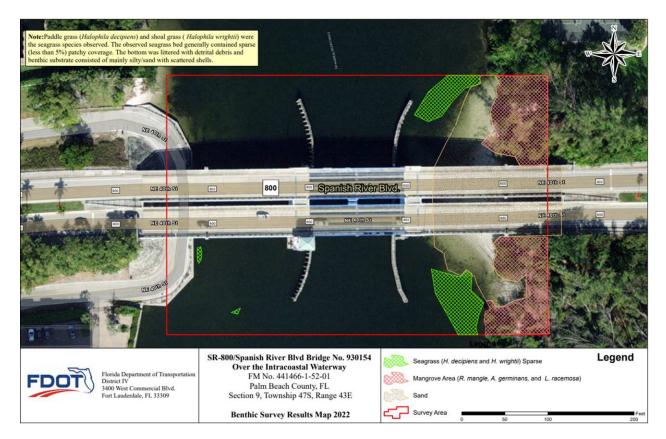


Figure 5-5 Example of Benthic Survey Map

5.1.3 Threatened and Endangered Species Impacts

5.1.3.1 Critical Habitat

Designated critical habitat for federally listed species falls under the purview of the Services, either the USFWS or the NMFS, and is defined by the following:

- The specific areas within the geographical area occupied by the species, at the time it is listed in accordance with the provisions of the Endangered Species Act (ESA), on which are found those physical or biological features (constituent elements) that are:
 - a. Essential to the conservation of the species and
 - b. Which may require special management considerations or protection.

2. The specific areas outside the geographical area occupied by the species at the time it is listed in accordance with the ESA's provisions, upon a determination by the Secretary that such areas are essential for conservation of the species.

A more detailed description of designated critical habitats can be found in 50 CFR § 17 and 226.

Critical habitat designations should be identified as early as possible in the project development process and are typically identified through GIS databases during desktop review. For projects that qualify for an Efficient Transportation Decision Making (ETDM) screening, the presence of critical habitat in the proposed project area may be documented at this time. Those projects that do not qualify for an ETDM screening should still have a protected species and habitat evaluation conducted with sufficient detail to ensure these resources have been considered in adequate detail. Regardless of whether a project has been screened in ETDM or not, a thorough desktop review should be conducted followed by field surveys as appropriate to verify the presence or absence of potential listed species and critical habitats within the project area. See specific **Listed Species Appendices**.

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HELPFUL HINTS: Critical habitats for protected species have GIS layers with the bounds (or proposed bounds) defined. These data layers can be found at the USFWS Environmental Conservation Online System (ECOS) -<u>Critical Habitat</u> and the NMFS Endangered Species Conservation Site -<u>Critical Habitat</u>.

Not all federally listed species have designated critical habitat; however, if critical habitat for a species does exist in the project area, consultation with the appropriate Service Agency (either USFWS or NMFS) may be necessary depending on proposed impacts. When evaluating projects that have work proposed within a species' designated critical habitat, effect determinations must be made for both the species itself, as well as its designated critical habitat during the consultation process. If it is determined by the lead federal agency that the federal action *may adversely affect* the listed species or its critical habitat, formal consultation will be required. Further discussion of critical habitats and their role in the ESA Section 7 Consultation process can be found in <u>Section 5.4</u> and the <u>PD&E</u> <u>Manual Part 2, Chapter 16.</u>

FWC does not designate critical habitats as part of its role, however, FWC does recognize federally designated critical habitats of listed species in Florida.

For state-funded projects it is recommended that the federal process be followed in case federal funding or federal permitting (i.e., USACE authorization) is needed later.

5.1.3.2 Listed Species Surveys

Field surveys may be needed to determine and record the presence of listed species in the proposed project area. A desktop review using the Environmental Screening Tool (EST) should be conducted prior to field surveys to identify if any designated consultation areas, critical habitat, and/or species occurrence data exist in the project area. This information would be used to guide the field effort for specific species anticipated to potentially occur in the project area. If multiple federal and state listed species, and/or their habitats have the potential to occur within the action area, the field surveys should be conducted concurrently as feasible. When conducting a listed species survey, the wildlife biologist should consider available species presence or habitat GIS data layers, the known life histories and behaviors of the listed species with the potential to occur in the area, as well as the habitat quality and current site conditions. As such, the survey methodology should be designed with the appropriate time of day and season in mind. For example, sand skink surveys can only be conducted during March 1 to May 15, so seasonal limitations must be considered when planning a survey. Another factor to consider when scheduling surveys is that some survey data, such as nest site locations, may be considered outdated after a short period of time.

Additionally, several species (such as the sand skink, Audubon's crested caracara, and Florida scrub-jay) have specific survey protocols that have been developed or approved by the Service(s). If one of these species is suspected to occur within the action area of a project, or designated critical habitat, or consultation areas are known to exist, the approved protocol should be followed and documented as appropriate. Other listed species, such as the Everglade snail kite, do not have Service-developed survey protocols but instead have draft protocols developed. Prior to conducting a survey for a species with a draft protocol, there should be a discussion with the applicable Service to verify if a revised draft or official protocol has been developed.

FDOT has developed species field survey training videos for sand skink/blue tailed mole skink and crested caracara with more videos being developed (go to <u>On-demand</u> <u>Training</u>).

SPECIES	SEASONAL ISSUE	SURVEY <u>OR</u> NO WORK PERIOD
Audubon's Crested Caracara	Nesting Season	Survey Jan. 10 - April 30
Bald Eagle	Nesting Season	Survey Oct. 1 - May 15
Freshwater Mussels	Period of gravidity	Survey end of April to end of Nov Flexible based on unseasonable conditions, water flow levels, and coordination with USFWS. Avoid cold temperatures when species burrows deeper.
Everglade Snail Kite	Nesting Season	Survey Jan. to May

SPECIES	SEASONAL ISSUE	SURVEY <u>OR</u> NO WORK PERIOD
Plants	Flowering, Leafing, and Seed Producing Periods	Survey period for listed plants will vary and may require an intimate knowledge taxonomy
Sand Sink	Period of Activity	Survey March 1 – May 15
Seagrass	Growing Season	Survey June 1 to Sept. 30
Bats*	Maternity Season	No work activities from April 16 through August 14
Sea Turtles	Nesting Season	No beach work from March 1– Oct. 31- Times vary depending on FL location.

* Note that bat maternity season, especially Florida bonneted bat maternity season may extend longer than the state regulated survey season. Do not conduct exclusion activities until maternity season is completed.

In many cases, follow-up species-specific surveys will be required by the Service as a result of prior consultation/coordination. These surveys are often documented as project commitments during the PD&E phase and later carried out in preparation for the permit application process. The Service agency will communicate/provide guidance for the type of data to be collected, timeframe surveys are to be conducted, and any necessary follow-up surveys. If a more intensive species survey is required, the Service will provide the requirements during the coordination process. Once the survey has been completed, all results and field notes should be provided to the appropriate Service agency. More information regarding listed species surveys can be found in the <u>PD&E Manual Part 2</u>, <u>Chapter 16.</u> In addition, see specific Listed Species Appendices.

5.1.3.3 Essential Fish Habitat

The NMFS is responsible for the protection and restoration of Essential Fish Habitat (EFH) under the Magnuson-Stevens Fishery Conservation and Management Act. The Habitat Conservation Division (HCD) of the NMFS reviews projects with potential EFH impacts; this review is separate from the consultations through the ESA.

EFH is defined as "those waters and substrate necessary to fish for spawning, breeding, feeding or growth to maturity." Under the requirements of the <u>Magnuson-Stevens Fishery</u> <u>Conservation and Management Act</u>, federal agencies, (including the USACE) are required to consult with the NMFS on all actions or proposed actions that may adversely affect EFH. This analysis also requires a description of means to avoid or minimize adverse effects on EFH.

EFH is typically associated with waterways and wetlands that have a connection (temporarily/seasonally or permanently) to the tidal waters of Florida. Wetlands adjacent

to tidal waterbodies may be connected via a conveyance, or only during periods of high water, and still meet the classification of EFH. There are also examples of freshwater tidal systems (including forested systems) that are classified as EFH. NMFS maintains an <u>EFH</u> <u>Mapper</u> that can be reviewed for the project area. EFH and benthic surveys are conducted together (see **Benthic Survey** <u>Section 5.1.2.10</u>).

Information on the types of EFH included in a project area, the proposed project impacts to EFH, and the proposed mitigation to offset those impacts must be provided to NMFS for review. As with listed species, initial EFH coordination would have taken place during the PD&E phase if the project had a PD&E Study. For these projects, further coordination will continue, if necessary, when the project is being permitted. If the project did not have a PD&E study, EFH coordination should be done around the 60% plans submittal which is typically when a project would begin permit coordination with regulatory agencies. If design changes impacting EFH have occurred since the PD&E phase, then an EFH survey may be required. Mitigation to offset EFH impacts is generally completed separate from wetland mitigation, as most wetland mitigation options readily available to FDOT do not have a tidal component and therefore do not provide any benefit to EFH. Typically, EFH mitigation is required to offset the same type of EFH as being proposed for impact and may require some creative thinking and coordination to provide a suitable mitigative option.

NMFS may request additional information following issuance of the Public Notice that must be responded to before the coordination process can be concluded. Usually, there is coordination/guidance between the applicant, USACE, and NMFS staff during this process so that the resolution is satisfactory to all parties. The timeframe for NMFS to provide any comments is 30 days following the receipt of the Public Notice. The final result may include EFH recommendations that can be incorporated into the USACE Section 404 Permit. Further information related to EFH can be found in the <u>PD&E Manual Part 2, Chapter</u> **17.**

5.1.4 Cultural Resource Impacts

"Cultural resources" is a broad term used to describe all archaeological sites, as well as historic buildings, structures, objects, and districts that are 50 years of age or older. A cultural resource assessment survey (CRAS) is completed to identify, document, and evaluate cultural resources in a project's area of potential effect (APE) for their significance. Cultural resources evaluated as significant (eligible for or included in the NRHP) are called historic properties. The APE is defined in the PD&E Manual as "the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist." This area varies based on the proposed project scope of work, since all possible impacts to cultural resources present in the project area must be considered when delineating the APE. For more information regarding the identification, documentation, and evaluation of cultural resources, please refer to <u>PD&E Manual Part 2, Chapter 8</u>.

For federally funded projects, Section 106 of the National Historic Preservation Act (NHPA) requires consultation with and concurrence from the Florida State Historic Preservation Officer (SHPO) for cultural resource survey results and impacts to historic properties associated with the project. Projects with state funding must follow a similar process in accordance with Chapter 267, Florida Statutes, and consult with and obtain concurrence from the Florida Division of Historical Resources (DHR). In Florida, the SHPO and the Director of DHR are the same person, and FDOT projects are reviewed by the same SHPO/DHR Compliance & Review staff members regardless of the project's funding source (See the **Section 106 Programmatic Agreement** for specific information on these coordination processes). Potential impacts to historic properties should be identified as early as possible during project development as required by Section 106 and Chapter 267, Florida Statutes.

Once all historic properties within a project's APE have been identified, the potential effects to these properties must be assessed and coordinated with SHPO/DHR. The three potential Section 106 findings FDOT can recommend for project effects are: No Historic Properties Affected, No Adverse Effect to Historic Properties, or Adverse Effect to Historic Properties (project effects under Chapter 267 may employ slightly different language such as No Effect, No Adverse Effect, and Adverse Effect).

If SHPO/DHR concurs with findings of No Historic Properties Affected or No Adverse Effect to Historic Properties, Section 106 coordination is complete and all pertinent cultural resource information from that consultation can be incorporated into the permit application prior to submittal. If an Adverse Effect is anticipated additional documentation beyond the initial CRAS Report will take place to present the situation in greater detail for SHPO/DHR concurrence, typically this is in the form of a Section 106 Case Study Report. Both a CRAS Report with anticipated Adverse Effects and the Case Study Report will be reviewed by the State Cultural Resources Coordinator (CRC) prior to the District continuing coordination with SHPO/DHR. Once SHPO/DHR concurs with a finding of Adverse Effect to Historic Properties, the Section 106 consultation will continue and will conclude with the execution of a Memorandum of Agreement (MOA) documenting the agreed upon mitigation measures to resolve the Adverse Effects.

SHPO or DHR must provide written concurrence on a project prior to issuance of a federal permit or state ERP. Therefore, the Environmental Permit Coordinator (EPC) should coordinate with the District Cultural Resources Coordinator (CRC) during the PD&E phase to become aware of any cultural commitments made in the Environmental Document or an MOA. During the Design phase, the EPC and EMO should be mindful of design changes that may affect the previous cultural evaluation results and coordinate with the CRC staff to address those changes prior to permitting the project. The CRC who oversees the SHPO/DHR consultation should also inform the EPC if further SHPO/DHR coordination is needed during the Design phase due to newly proposed work within the APE or a design/alignment change not covered under original APE surveyed. Once any additional agency coordination has been completed, the EPC should incorporate all necessary cultural resource information into the permit application prior to submittal.

5.1.5 Tribal Coordination

For federally funded projects, Native American Tribes (Tribes) are provided with the Advance Notification (AN) Package (see <u>Section 2.1.1.2</u>). The District CRC will conduct cultural resource coordination with Tribes according to their individual preferences and the processes outlined in the <u>PD&E Manual Part 2</u>, <u>Chapter 8</u>, Section 106 PA, and <u>Cultural Resource Management Handbook</u>. OEM will notify Federal Highway Administration (FHWA) if the tribe(s) requests government-to-government consultation. Although tribal consultation will likely have occurred during the PD&E phase, there may be a need for additional surveys and consultation during Design/Permitting if project changes are made that could lead to new impacts to sites of significance to any Tribe. Refer to <u>Section 3.6.2</u> for more details regarding the tribal consultation process.

5.2 Wetland Avoidance and Minimization

Regulatory guidelines for the protection of wetlands require that projects be designed to avoid or minimize impacts to the extent practicable (this can also be referred to as elimination or reduction in state regulatory terms). This process may occur over a lengthy period of time for some more involved projects (major roadway expansions) or more simply throughout the Design phase for others (minor projects, safety projects). When a project goes through the PD&E process, multiple alternatives are presented and evaluated based upon their proposed impacts to the natural, social, cultural, and physical environment. Design standards for side slopes, turning radii, the placement of additional lanes, lane widths, and the availability of parcels for stormwater management facilities are all considerations to establish a preferred alternative.

As a result of this process, avoidance and minimization (elimination, and reduction) of impacts to wetlands can often be clearly demonstrated to the permit agencies. However, since not all FDOT projects have gone through a PD&E phase (such as Type 1 Categorical Exclusions (CE), some Type 2 CEs; and Non-Major State Actions (NMSAs)), these projects will likely need to demonstrate that the project has undergone this type of evaluation during the permitting process. The following activities are examples of how avoidance and minimization (elimination, and reduction) can be achieved during the Design phase:

- Shift alignment to avoid wetlands
- Widen inward towards the median
- Reduce typical sections to avoid or minimize wetland impacts
- Design stormwater management system to avoid or minimize wetlands impacts

Projects that have had prior PD&E Studies or prior coordination with regulatory agencies during the National Environmental Policy Act (NEPA) process will have fulfilled much (if not all) of the analysis for avoidance and minimization of impacts through either a Tech Memo or Natural Resources Evaluation (NRE). There may be a need to address any changes that occurred after the completion of the PD&E process (if new pond locations are proposed, for example) to ensure that the project has fully demonstrated avoidance and

minimization to the greatest extent practicable. FDOT must demonstrate to the regulatory agencies that avoidance and minimization measures for wetland impacts have been analyzed and provide documentation to assure these agencies that due diligence has been done. If not already done through the PD&E process, a NRE may be required if impacts are proposed to jurisdictional wetlands and permits are anticipated (Standard or SAJ-92 permit). OEM reviews the NRE prior to resource agency submittal regardless of the federal Class of Action. NREs for state funded projects do not require OEM review. A Technical Memorandum can be used when minor wetland impacts are anticipated that require a general or nationwide permit.

State Rules on Elimination and Reduction

Pursuant to section 10.2.1, Statewide Environmental Resource Permitting (SWERP or ERP) Applicant's Handbook I, an applicant must consider practicable design modifications that would reduce or eliminate adverse impacts to wetlands and other surface waters.

Section 10.2.1 outlines the following factors that should be considered in determining whether the Agency will approve an application:

- the degree of impact to wetland and other surface water functions caused by a proposed activity; whether the impact to these functions can be mitigated; and,
- the practicability of design modifications for the site that could eliminate or reduce impacts to these functions, including alignment alternatives for a proposed linear system.

During the design analysis, the team should consider additional means to further demonstrate that elimination and reduction strategies were employed (such as designing floodplain or stormwater ponds to avoid impacts to the wetland systems).

Federal Rules on Minimization and Avoidance

In its evaluation of standard permit applications, the USACE is required to analyze alternatives to the proposed project that could achieve the defined purpose and need (as required by NEPA). The USACE must evaluate alternatives that accomplish the overall project purpose and are reasonable and practicable. Note that an alternative is considered practicable if it is viable after cost, existing technology, and logistics have been taken into consideration in the context of overall project purposes. A permit cannot be issued if there is a practicable alternative that has no other significant adverse environmental impacts and is anticipated to have less adverse impacts to aquatic ecosystems than the proposed alternative. Guidance on minimization and avoidance analysis is provided in the <u>404 (b)(1) Guidelines</u>.

For those projects where a previous PD&E Study did not occur, an alternatives analysis should be conducted. At the beginning of an alternatives analysis, the applicant should clearly state the overall project purpose and need. The overall project purpose must be specific enough to define a permit applicant's needs, but not so restrictive as to preclude other alternatives. Also, it should not be too wide-ranging without consideration for the

applicant's real needs, as the geographic boundaries for the project purpose define the scope of the analysis.

For projects that have a prior PD&E phase and where the USACE is the cooperating agency, FDOT coordinates with the USACE during the study to develop practicable alternatives that consider wetland impacts. For projects without a PD&E phase, the designer and environmental staff should work to avoid and minimize wetland impacts to the extent practicable and coordinate with the USACE prior to submitting the permit application.

"Practicable" is defined here as meaning the alternative is available; can achieve the overall project purpose; and is feasible considering cost, existing technology, and/or logistics in light of the overall project purpose. Factors to be considered to determine practicability include:

- 1. **Cost** The costs associated with various infrastructure components such as roadways or utilities, including upgrades to existing infrastructure components or the need to establish new infrastructure components, may affect the viability of a particular alternative. Cost is analyzed in the context of the overall cost of the project and whether it is unreasonably expensive or exorbitant.
- 2. **Existing technology** The alternatives examined should consider the limitations of existing technology yet incorporate the most efficient/least-impacting construction methods currently available.
- 3. **Logistics** Examples of alternatives that may not be practicable when considering logistics are alternatives that are located too far from the proposed road corridor, or do not align with existing road components, to meet the overall project purpose.

FDOT must list and briefly describe alternatives that could meet the overall project purpose:

- 1. Alternatives that would involve no discharges of dredged or fill material into wetlands;
- 2. Alternative offsite locations, including those that might involve less adverse impact to wetlands;
- 3. Onsite alternatives that would involve less adverse impact to wetlands (these include modifications to the alignments, site layouts, or design options in the physical layout and operation of the project to reduce the impacts to wetlands);
- 4. Alternatives that would involve greater adverse impacts to wetlands but avoid or minimize other significant adverse environmental consequences, including offsite and onsite options.

FDOT must consider practicable design modifications, which would avoid and minimize adverse impacts to wetlands and other surface waters, using the following criteria:

• The degree of impact to wetland and other surface water functions caused by a proposed activity; whether the impact to these functions can be mitigated; and,

• The practicability of design modifications for the site that could eliminate or reduce impacts to these functions, including alignment alternatives for a proposed linear system.

5.3 Determination of Functional Analysis

In addition to the minimization and avoidance analysis, a mitigation plan must be developed that is designed to offset all unavoidable wetland impacts. Demonstrating that a mitigation plan wholly offsets proposed impacts to wetlands is accomplished by conducting a functional assessment of both the impact and mitigation areas. The Uniform Mitigation Assessment Method (UMAM) is the commonly used functional analysis for identifying impact types and mitigation types required for a project. However, other functional assessment methodologies may be used for determining mitigation needs, such as the Wetland Assessment Technique for Environmental Review (WATER) and the Wetland Rapid Assessment Procedure (WRAP). The use of other functional assessment methodologies should be closely coordinated with the EPC and/or EMO. FDOT's Invitation to Bid process for purchasing mitigation credits from Mitigation Banks puts the responsibility on the banker if their bank uses another functional assessment other than UMAM. However, wetland functional analyses are not interchangeable, each assessment methodology is independent and therefore additional functional assessments may be required.

5.3.1 Uniform Mitigation Assessment Method

The UMAM was developed by various State of Florida regulatory agencies, with input from local governments and the USACE, Jacksonville District. On February 2, 2004, UMAM went into effect at the state level, and those state and local government agencies responsible for environmental regulation were required to begin utilizing the methodology. Prior to its implementation at the federal level, the USACE conducted a study of the method and recommended UMAM be used for federal wetland regulatory purposes starting August 1, 2005.

The UMAM is the current method approved by the state and federal regulatory authorities for assessing wetland functions and determining the amount of mitigation (functional gain) required to offset wetland functional loss. This method is also used to track mitigation credits from the mitigation banks and the WMDs. The UMAM assessment is composed of two parts:

- 1. Qualitative Section (Part 1) Includes an assessment of environmental conditions (including vegetative communities), basin boundaries and likely utilization by listed species.
- 2. **Quantitative Section (Part 2)** Involves scoring of those parameters relative to the wetland location and landscape support; hydrology; and vegetative communities.

Prior to conducting field delineations, it is recommended that portions of UMAM Part 1 assessment forms be filled out, identifying the known background data. A UMAM

assessment of the existing condition should be prepared for each wetland, or grouping of similar wetlands, that will be potentially impacted by the project. The data required for Parts 1 and 2 of the UMAM forms can be collected in the field during the wetland delineation.

In addition, USACE wetland data forms should also be filled out during this wetland delineation effort. As with the UMAM forms, part of these forms can be filled out in the office, but the relevant biological data should be collected in the field.

The UMAM process is described in more detail in Chapter 62-345, Florida Administrative Code. The UMAM provides a standardized procedure for assessing wetland functions throughout Florida. There are three factors involved in the use of UMAM including:

- 1. Location and Landscape Support
- 2. Water Environment
- 3. Community Structure

Implementation of UMAM by the USACE included a few minor changes from the state rule. For example, when compared to the state, the USACE has more restrictions in the amount of wetland and upland preservation credit given. The <u>FDEP UMAM Website</u> provides a thorough description of the implementation of the UMAM methodology, as well as associated forms, the UMAM Rule, and training materials.

5.3.2 Wetland Assessment Technique for Environmental Review

WATER was developed to evaluate the restoration potential of the Florida Power and Light Company (FPL) Everglades Mitigation Bank in Miami-Dade County, as well as to identify the number of wetland credits required to offset unavoidable wetland impacts. This assessment technique was first proposed by FPL and can be accessed on <u>FPL's website</u>.

5.3.3 Wetland Rapid Assessment Procedure

WRAP is a rating index developed by the South Florida Water Management District (SFWMD) to assist in the regulatory evaluation of wetlands and proposed wetland mitigation sites. WRAP was originally designed to ensure consistency and accuracy when evaluating a site during the regulatory process of resource permitting and post-permit compliance. WRAP input data consist primarily of field observations and professional experience. WRAP variables used in the analysis include the following:

- 1. Wildlife Utilization
- 2. Wetland Overstory/Shrub Canopy
- 3. Wetland Vegetative Ground Cover
- 4. Adjacent Upland Support/Wetland Buffer
- 5. Field Indicators of Wetland Hydrology and
- 6. Water Quality Input and Treatment Systems

The WRAP analysis is still used at some older mitigation banks to identify credits needed to offset unavoidable wetland impacts. For example, WRAP is used to determine credits needed for the Loxahatchee Bank in Palm Beach County. A modified version of WRAP was also developed in 1996 specifically for use by certain mitigation banks to identify credits needed to offset unavoidable wetland impacts. More information regarding the WRAP analysis can be found on <u>South Florida WMD's website</u>.

5.4 Endangered Species Act Section 7 Consultation

As part of the federal permitting process the lead Federal regulatory agencies, USACE and/or United States Coast Guard (USCG), are required to evaluate the potential impacts of a proposed action on any federally listed threatened or endangered species or its designated critical habitat. Note that under <u>NEPA Assignment</u>, the Section 7 ESA Consultation can also be conducted by FDOT as the lead agency.

Evaluations often require coordination with the resource agencies, USFWS and/or NMFS ("Service agencies"), pursuant to <u>Section 7 of the Endangered Species Act</u>. The lead agency provides copies of the permit applications to the USFWS and/or NMFS, depending on the listed species that may be found in the project area, as well as the lead agency's initial effect determinations. This typically occurs at 60 percent design plans. It is the responsibility of the lead agency to identify the level of effect to listed species based on the proposed work.

The USFWS and NMFS review projects to provide concurrence with the lead agencies' species effect determinations or they will identify any discrepancies. They may request additional clarification regarding construction methodologies or mandate conservation measures for avoidance of resources (such as manatee protection provisions). In special cases, the USFWS or NMFS may provide additional data regarding listed species that may occur in the area. Most capacity and/or new alignment projects have previously coordinated with the USFWS and/or NMFS through a PD&E Study. However, some minor projects may be new to the Service. For these reasons, effect determinations for all federally listed species, and critical habitat, that potentially occur within the project area must be included in order to provide complete permit application packages.

5.4.1 Endangered Species Act Informal Consultation

Through the Section 7 consultation program, the USFWS and NMFS work with the USACE and/or USCG to emphasize the identification and informal resolution of potential species conflicts. The Services work with federal agencies on any action that is federally funded, authorized, or carried out that may affect a listed species and designated critical habitats (as with USACE permit processing for federally funded FDOT projects).

The lead permitting agency must evaluate each FDOT project to determine its effects on federally listed threatened or endangered species or designated critical habitat. The lead agency reviewer will collaboratively make an "effects determination" for any federally listed species with the potential to be impacted by the project. The lead federal action agency (FDOT, USACE or USCG) will then submit these effect determinations to the

appropriate Service for concurrence. As part of this process, the lead agency sends a coordination letter directly to the USFWS and/or the NMFS, along with a copy of the application package. There is no effective timeframe for the endangered species review by these two agencies for informal consultation, but there are prescribed timelines for the formal consultation process.

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HELPFUL HINTS: For those projects which had prior studies such as a PD&E, data on wildlife involvement will have already been collected and shared with USFWS. In these cases, consultation may have been initiated and concluded. Should design changes occur, consultation will need to be reinitiated.

FDOT is responsible for providing all the information required for the lead agency (typically USACE) to make the species effect determinations or provide documentation of completed species consultation. The effects determination should be established through an ecological assessment of the project corridor, habitat types, and the project's potential impacts to the listed species and habitat. The assessment is documented through either a Natural Resources Evaluation (NRE) or a Technical Memorandum. A NRE is required when a formal/informal consultation (may affect types) is needed with the Services. The Office of Environmental Management (OEM) reviews the NRE prior to submittal to the Services regardless of the federal Class of Action. NREs for state funded projects do not require OEM review. A Technical Report is done for no effect determinations and where species keys or programmatic approaches are used. The report is kept in the project file.

In many cases, a NRE is included with the permit application for the lead permitting agency's consideration. The NRE will contain the anticipated effect determinations reached during the PD&E phase. These effect determinations are based in part upon the guidelines issued in the <u>USFWS and NMFS Endangered Species Act Consultation Handbook</u> (March 1998), as explained in <u>Part 2, Chapter 16 of the PD&E Manual</u>. It is likely that the USFWS and NMFS' Protected Resources Division (PRD) and/or Habitat Conservation Division (HCD) will have been involved during the PD&E Study phase so that when permitting is underway, potential impacts can be addressed without time delays.

Several species-specific effect determination "keys" have been produced as interagency efforts between the USACE and USFWS, to guide applicants and USACE permit reviewers in documenting whether a proposed project may affect a listed species. Keys have certain stipulations and should be reviewed thoroughly. See the <u>USACE Source Book</u> "Endangered Species" section for examples of these keys. For federal projects the Species Keys can be used to complete the consultation process; for State projects the Keys are used for technical assistance. When a Key is used it needs to be well documented. The Key can be highlighted to show the pathways used to arrive at a species determination or a narrative added. Be sure to add a date of when the Key was used as the Keys are updated over time. The highlighted Key(s), or narrative, is included in the NRE or Technical Memorandum. In addition to the reports, documenting the use of the Key(s) or species

determination(s) can be directly included onto the Type I Categorical Exclusion Checklist Form.

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HELPFUL HINTS: Approved effect determination keys currently exist for the wood stork, Eastern indigo snake, manatee, Florida bonneted bat, piping plover, and Florida panther. See specific Listed Species Appendices.

A separate effect determination must be made for each listed species with potential involvement. It is important to also consider those species designated by the Services as candidate species or proposed species (i.e., species under consideration for future listing). If a proposed or candidate species could be impacted by the project such that construction schedule delays are possible, those potential impacts should be addressed during permitting (refer to <u>Part 2, Chapter 16 of the PD&E Manual</u> for more information). Three effect determinations are possible:

- "No effect" No habitat for the listed species present, and there will be no impact ("no effect") to the habitat or species from the project.
- "May affect, not likely to adversely affect" Habitat or listed species have been identified, but the project impacts to the species are expected to be insignificant, discountable, or completely beneficial.
- "May affect, likely to adversely affect" An adverse impact to listed species may occur as a direct or indirect result of the proposed action.

Once the Services receives the pertinent wildlife information from the lead permitting agency, they can request additional information (e.g., species surveys); concur with the lead permitting agency's determination; or choose to not concur with the effect determination(s). Under the ESA regulations and the Services' March 1998, Section 7 Consultation Handbook, for those projects where the lead permitting agency makes a finding of **"no effect"**, nothing more will be needed regarding consultation with the appropriate Service. For those projects where the lead permitting agency makes a finding of **"may affect, not likely to adversely affect"**, the agency will then request the appropriate Service's written concurrence with its determination under the procedures governing informal consultation. The written concurrence should be placed in the project file.

If the Service reaches a "**may affect**, **likely to adversely affect**" determination, formal consultation will be required in accordance with Section 7 of the ESA. Additional information can be found in the federal permitting agency coordination discussion in <u>Part</u> <u>2</u>, <u>Chapter 16 of the PD&E Manual</u>.



HELPFUL HINTS: Survey protocols have been established for many listed species. Coordination with USFWS/NMFS staff should occur to ensure that the proper procedures are followed. Since some species have very limited survey windows, planning of these surveys must be carried out well in advance to avoid costly time delays.

5.4.2 Endangered Species Act Formal Consultation

The lead federal permitting agency often initiates consultation as part of the permitting process. For those projects where the USACE and/or USCG makes a finding of **"may affect, likely to adversely affect"**, USACE/USCG will request the appropriate Service (USFWS/NMFS) to initiate formal consultation. Consultation can also be initiated by FDOT/EMO during the PD&E phase, based on the results of the Protected Species and Habitat section of the Natural Resources Evaluation (NRE). The law allows up to 90 calendar days to conclude the formal consultation process, and an additional 45 days to produce a Biological Opinion (BO) (up to 135 calendar days total). However, additional project impacts, new species listings, or new species survey information may necessitate a BO or a modification to an existing BO during permitting. See <u>Part 2, Chapter 16 of the PD&E PD&E Manual</u> for a description of Section 7 consultation.

Formal consultation is the process put in place to address proposed impacts to listed species or its designated critical habitat, when the proposed activity *may adversely affect* one or more federally listed species, or when there is potential for "adverse modification" of critical habitat. For those projects that proceed to formal consultation with the wildlife commenting agency (USFWS/NMFS), the request from the lead federal permitting agency to the commenting agency will start an in-depth review process of the way the project may affect listed species and/or critical habitat. The reviewer will request detailed analysis of the project's listed species impacts, NRE/Biological Assessment, to provide to the USFWS or NMFS for review. This will include the species-specific survey data and results; maps and graphics; and any proposed mitigation measures. A detailed description of the formal consultation process is provided in section 16.2.2.1.4 of <u>Part 2, Chapter 16 of the PD&E Manual.</u>

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HELPFUL HINTS: The timeframe for formal consultation is expected to include a 90-day review by USFWS from the date of initiation, followed by a 45-day period to prepare a draft BO. If sufficient information is not provided to USFWS in a timely manner to make the review, the timeframe can be extended.

In summation, the project design will be evaluated for proposed impacts to the listed species and/or designated critical habitat, and to determine whether the impacts could result in an authorized taking of the species or habitat. As part of its review, the USFWS addresses threatened, and endangered species concerns associated with dredge and fill activities that are being reviewed by the USACE. Although the USFWS comments are directed at potential adverse impacts to endangered species, in certain instances avoidance and minimization of wetland impacts may also be addressed when critical habitat for endangered species is being affected. For the NMFS review of aquatic listed species, FDOT must complete the <u>Section 7 Endangered Species Expedited Informal Consultation Template</u>. The Expedited Informal Consultation Template outlines the basic information regarding potential impacts to listed aquatic species including smalltooth sawfish and corals required for NMFS review. There is no template for formal consultation,

but the informal template can be used as a reference checklist to ensure the basic project information is submitted for formal consultation. Once formal consultation has been completed, the results will be issued in a BO from USFWS and/or NMFS. See specific **Listed Species Appendices**.



HELPFUL HINTS: NMFS reviews can take considerable time. There are no set timeframes for informal consultation. Under formal consultation, it may take months for a legal review of an issued BO. It is essential to coordinate early with NMFS whenever a project may impact resources under NMFS jurisdiction.

5.4.2.1 Endangered Species Act Biological Opinion

In cases where the formal consultation leads to a non-jeopardy opinion (i.e., the project will not result in jeopardizing the continued existence of a threatened/endangered species), the BO will contain an "Incidental Take Statement" that provides coverage for incidental (unintentional) species takings during project implementation. The issuance of the BO allows the lead permitting agency to issue the permit with no further involvement from the USFWS or NMFS. If FDOT (as the lead agency during PD&E) has already conducted formal consultation with USFWS and/or NMFS, this documentation should be provided to the USACE and/or USCG as part of a complete permit application package.

In unique circumstances where formal consultation results in a jeopardy opinion (i.e., the case when the proposed action could jeopardize the continued existence of a species), the BO will include "reasonable and prudent alternatives" and mandatory measures that must be adopted or negotiated with Services to avoid a jeopardy opinion and proceed with federal permit issuance. The same is true for a finding of adverse modification of a species' designated critical habitat.

These results (jeopardy opinions) are rare because project impacts would more than likely have been previously addressed during the ETDM process and PD&E phase, when agency coordination and avoidance/minimization strategies would guide the project design.

5.4.2.2 Endangered Species Act Programmatic Approaches and Biological Opinions

FDOT and the regulatory agencies have developed programmatic approaches (PA) intended to address frequent routine work activities conducted by FDOT that have predictable/repetitive outcomes and which can set consistent expectations statewide for these activities and provide consistent measures to avoid or minimize impacts to protected species. Work types generally include maintenance activities and minor work within FDOT's existing ROW.

Freshwater Mussel Phase 1 Programmatic Approach for Transportation Work Activities -Approved in 2017 for fourteen freshwater mussel species, and their designated critical habitat, found within District Two and Three. It covers minor work type activities related to road and bridge maintenance and results in either a *no* effect or *not* likely to adversely affect for the listed mussels along with any appropriate conservation measures that are required to support this determination.

Programmatic Approach for Minor Transportation Activities – Approved in 2021, this PA was developed as a result of the Districts requesting a means to provide predictable outcomes for minor projects and being able to make more accurate, consistent and efficient effect determinations on similar projects that FDOT routinely performs that have minimal to no impact. It covers 15 different species and 27 different construction activities. Project work activities are required to be within existing ROW in order to use this PA. It provides conservation measures that are required for a certain combination of activities and the affected species. So long as the conditions of the PA can be followed, and the conservation measures can be adhered to then no further consultation is required when the PA gives a *no effect* or a *not likely to adversely effect* determination. For State projects, the PA can be used for Technical Assistance.

HELPFUL HINTS:

Programmatic Approach for Minor Transportation Activities

- ✓ Activities entirely within FDOT's right-of-way
- ✓ Potential impacts are insignificant, discountable, or wholly beneficial
- ✓ No significant environmental effects
- ✓ Covers up to 15 federal listed species
- ✓ Covers up to 27 transportation construction activities
- \checkmark All necessary conservation measures are implemented
- ✓ Effect determination is No Effect or May Affect, Not Likely to Adversely Affect

Florida Statewide Programmatic Opinion - The NMFS PRD issued the <u>Statewide</u> <u>Programmatic Biological Opinion (BO)</u> in December 2015 in an effort to expedite ESA consultation between the USACE and NMFS on projects. This programmatic BO represents NMFS' review of impacts associated with the USACE authorizations for minor in-water activities. See **Programmatic Agreements Appendix**.

Programmatic consultations under ESA can be used to evaluate the expected effects of groups of related agency actions anticipated to be implemented in the future, where specifics of individual projects such as project location are not definitively known. The Statewide Programmatic BO represents NMFS' opinion based on their review of impacts associated with the USACE request for programmatic concurrence on minor in-water activities that would be permitted by USACE throughout the state of Florida. For FDOT projects with minor in-water work, conforming to the rules specified in the programmatic BO would help expedite consultation between USACE and NMFS.

The opinion analyzed the effects from 11 categories of activities on the following species and their designated critical habitat (denoted by an asterisk [*] if applicable) in accordance with Section 7 of the ESA:

• Sea turtles (loggerhead*, leatherback, Kemp's ridley, hawksbill, and green);

- Smalltooth sawfish*;
- Sturgeons (Gulf*, shortnose, and Atlantic);
- Corals (elkhorn*, staghorn*, boulder star, mountainous star, lobed star, rough cactus, and pillar); and
- North Atlantic right whales*

The primary type of activity pertinent to FDOT is related to the placement of:

- 1. Temporary work platforms and access fill;
- 2. Installation of pile jackets around piles to protect them (e.g., cathodic protection used for bridge supports); and
- 3. Cofferdams (to dewater an area for construction).

"Temporary" is defined as less than 120 days, and the amount of fill is limited to 0.5 acres of clean fill at any time. This activity is not allowed if there are any corals.

To comply with the requirements of the Statewide Programmatic BO, FDOT must ensure that all Project Design Criteria (PDC) are met. If they are met, the USACE submits the project to the NMFS for comments, and NMFS has ten (10) calendar days to review and respond. If no response is received within ten days, USACE can proceed with permitting the project.

<u>United States Army Corps of Engineers Jacksonville District's Programmatic Biological</u> <u>Opinion ("JAXBO") -</u> In November 2017, the NMFS approved the <u>United States Army Corps</u> <u>of Engineers Jacksonville District's Programmatic BO</u>. This programmatic BO is intended to streamline consultation between the USACE and NMFS for ten (10) categories of in-water activities that occur throughout the State of Florida, the Commonwealth of Puerto Rico, and the U.S. Virgin Islands. These activities are regulated according to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act (CWA):

- 1. Shoreline stabilization
- 2. Pile-supported structures
- 3. Maintenance, minor, and muck dredging
- 4. Water-management outfall structures and associated endwalls
- 5. Scientific survey devices
- 6. Boat ramps
- 7. Aquatic habitat enhancement, establishment, and restoration activities
- 8. Transmission and utility lines
- 9. Marine debris removal
- 10. Temporary platforms, fill, and cofferdams

For FDOT projects that have proposed work within the above categories of in-water work, Jacksonville District's Programmatic BO will help to expedite ESA Section 7 consultation

between USACE and NMFS if the project area contains the following species and/or their designated critical habitat (denoted by an asterisk [*] if applicable):

- Sea turtles (loggerhead*, leatherback, Kemp's ridley, hawksbill, and green);
- Smalltooth sawfish*;
- Sturgeons (Gulf*, shortnose, and Atlantic*);
- Nassau grouper
- Corals (elkhorn*, staghorn*, boulder star, mountainous star, lobed star, rough cactus, and pillar); and
- Whales (North Atlantic right*, blue, fin, Sei, sperm, and Bryde's)

As with Statewide Programmatic BO, FDOT must meet all associated PDC to comply with Jacksonville District's Programmatic BO's requirements. If all PDC have been met, the USACE will submit the project to NMFS for review and comment. NMFS will then have ten (10) calendar days to review and respond to the project. If no response or comments are received from NMFS within this timeframe, USACE can then proceed with permit issuance.

A PA for the **Panama City Crayfish** in Bay County (see **Appendix for Panama City Crawfish**) was finalized in June 2022 and the **Monarch Candidate Conservation Agreement with Assurances** is under development.

5.5 Endangered Species Act Section 10 Permitting

If a proposed project has the potential to impact federally listed species, but proposes no federal wetland impacts or bridges requiring permits and receives no federal funding, no "federal nexus" exists for initiating Section 7 ESA consultation with USFWS and/or NMFS. In these scenarios, Section 10a(1)(B) of the ESA provides for permitting the "incidental take" of federally listed species for non-federal projects that lack a federal nexus, when the "take" is incidental to otherwise lawful activities (such as constructing, widening, or maintaining roadways).

FDOT projects, especially larger projects, may include federal wetland impacts, may have federal funding, and/or may require USCG bridge permits. Therefore, Section 7 interagency coordination typically occurs, and it is rare that FDOT becomes involved with incidental take permitting under Section 10 of the ESA. However, it is essential to note that in the rare instances where incidental take permits are required, they may take much longer to obtain than Section 7 clearances. Section 10 permitting requires that a Habitat Conservation Plan (HCP) be prepared as part of the application for an Incidental Take Permit, and the HCP itself can be time-consuming (depending upon the species involved and project specifics). Additionally, because these projects do not have a federal nexus, a PD&E will not have occurred, and a NEPA document may need to be prepared and approved. Some "low effect" HCPs may be categorically excluded.

Despite the differences between the Section 7 and Section 10 processes, one key similarity holds true for FDOT projects: **engage in early, continual, and strategic coordination** with USFWS and/or NMFS whenever a project may potentially impact federally listed species.

HELPFUL HINTS: The Section 7 and Section 10 processes can be timeconsuming. To minimize the duration of these processes, close coordination with the agencies is essential at the time permitting is initiated.

5.5.1 Incidental Take Permits

What is Authorized by an Incidental Take Permit?

The forms of Take that apply to FDOT projects involve "harm" and "harassment." "Harm" occurs when an activity results in the actual injury or death of listed wildlife and/or fish species. Significant habitat modification or degradation that impairs essential behaviors, and results in injury or death, also constitutes harm. "Harassment" occurs when wildlife become bothered (by an activity) to such an extent that their normal behavior patterns are disrupted (see 50 CFR § 17.3).

Simply stated, an incidental take permit authorizes the incidental (unintentional) taking of listed wildlife and/or fish species that occurs as the result of one or more "covered activities." The covered activities are those specific activities for which the applicant seeks incidental take coverage.

For example, if FDOT sought incidental take coverage for sand skink for only the construction activities for a specified road segment, the Incidental Take Permit would only cover that action and would not cover road maintenance activities, future road widening, or incidental take of sand skink on other road segments.

When is an Incidental Take Permit Required?

If the project may impact federally listed species resulting in a take and, therefore, require an Incidental Take Permit, FDOT must coordinate with the Services as early as possible within the project schedule. The coordination will determine/identify the species under review; the potential for incidental take; the type(s) of take involved; whether a "low effect" HCP is sufficient for mitigating potential impacts; and what type of NEPA document may be required to analyze the effects of the proposed HCP and issuance of an Incidental Take Permit. These factors will in turn determine the amount of time and effort required to obtain an Incidental Take Permit.

NEPA Requirements

Even though projects may require an Incidental Take Permit when no federal nexus exists, the issuance of an Incidental Take Permit is a federal action subject to the NEPA process. Incidental take permitting that involves "low effect" HCPs can receive a CE under NEPA. The USFWS defines "low effect" HCPs as "those involving (1) minor effects on federally listed, proposed, or candidate species and their habitats covered under the HCP; and (2) minor effects on other environmental values or resources." (USFWS, 2016). The determination of whether an HCP is "low effect" occurs during the coordination between the applicant and the Services and represents a key step that strongly influences the Incidental Take Permit permitting timeline. **Early, continual, and strategic coordination** with the Service(s) is therefore essential.

HCPs that are not considered "low effect" will require the lead agency (i.e., USFWS or NMFS) to prepare an Environmental Assessment (EA), or (in rare cases) an Environmental Impact Statement (EIS). The level of analysis required by the lead agency will depend on the following:

- Which species and resources may be affected;
- The nature, extent, and degree of the potential impacts;
- The type of take anticipated (harassment and/or harm); and
- The overall effect of the HCP and Incidental Take Permit issuance on the species recovery.

It is important to note that while FDOT may assist the lead agency by providing supporting information for the NEPA document, FDOT is not responsible for preparation of the document itself.

5.6 Wetland Mitigation

Mitigation is the term used to describe the way a permit applicant can offset environmental losses that result from unavoidable project impacts. Wetland mitigation typically includes one or more of the following: creation, enhancement or restoration of wetlands and their functions. The preservation of wetlands, while not generally accepted by itself, can be a component of a larger wetland mitigation plan.

Federal and state permit issuance requires mitigation for projects with direct and indirect impacts to wetlands and other surface waters, as assessed during the permitting process. Purchasing mitigation credits to replace functional loss to wetlands is the most common form of mitigation and can include offsetting affects to wildlife such as the wood stork. Many permitted mitigation banks also sell mitigation credits to offset affects to habitat utilized by listed species, as discussed later in this section (see **Wetland Mitigation Appendix**). Additional information can be found in <u>Section 5.6.1.1</u>.

For major projects, mitigation options are first evaluated as part of the PD&E Study, after avoidance and minimization of impacts have been documented as part of the Study. For

minor projects, mitigation is evaluated during Design. Final mitigation for unavoidable impacts is then proposed for each project during the permitting process.

From a federal perspective, Executive Order (EO) 11990 requires that there be "no net loss of wetland functions" resulting from federal actions, such as the issuance of a USACE Section 404 Permit. Mitigating (avoiding, minimizing, and providing compensatory mitigation) the environmental impacts of development actions on wetlands and other aquatic resources is a major component of the federal wetland programs. The CWA Section 404 permit program relies on the use of compensatory mitigation to offset unavoidable functional loss to wetlands and other aquatic resources.

Federal wetland mitigation is addressed in the <u>CWA 404(b)(1)</u> Guidelines and is more fully described in the Wetlands Mitigation Rule: Compensatory Mitigation for Losses of Aquatic Resources (33 CFR Parts 325 and 332), which provides criteria for applicants. The USACE adopted this mitigation rule in 2008 to provide more consistency and predictability; provide more mitigation options; provide similar standards and criteria for mitigation projects; and to improve ecological success of mitigation projects.

The mitigation rule provides for the planning, implementation and management of compensatory mitigation projects using the following approaches: emphasizing a watershed approach in selecting compensatory mitigation project locations; requiring measurable, enforceable ecological performance standards and regular monitoring for all types of compensation; and specifying the components of a complete compensatory mitigation plan, including assurances of long-term protection of compensation sites, financial assurances, and identification of the parties responsible for specific project tasks.

The rule provides a hierarchy for the selection of compensatory mitigation options for development projects (lower numbers are preferable):

- 1. Mitigation bank credits
- 2. In-lieu fee program credits
- 3. Permittee-responsible mitigation under a watershed approach
- 4. Onsite and/or in-kind permittee-responsible mitigation
- 5. Offsite and/or out-of-kind permittee-responsible mitigation

An application must provide a mitigation plan that employs this hierarchy to identify the proposed mitigation for the project (see **Wetland Mitigation Appendix**). If the applicant proposes mitigation options other than mitigation bank credits in a project location that has available mitigation bank options, the applicant must include the reason the proposed plan is more ecologically preferable than using a mitigation bank.

An ecologically preferable option would be a mitigation opportunity that more closely offsets the resources affected. The USACE typically requires that mitigation be provided in the same United States Geological Survey (USGS) Hydrologic Unit Code 8-digit basin (Hydrologic Unit Code-8 basin), which is different from the WMD-designated Cumulative Mitigation Basins that are often much smaller in extent. An ecologically preferable

mitigation option may be located much closer to the resource impact(s) and/or provide more appropriate type-for-type mitigation.

One example is an impact within (or nearby) a large coastal estuarine system, with a proposed mitigation project that provides a direct benefit to this resource. A mitigation bank may have a federal service area that includes the impact area, but the bank may not directly benefit the specifically impacted coastal system.

Another example would be a mitigation option that considers specific resources such as EFH (see <u>Section 5.1.3.3</u> and the <u>PD&E Manual Part 2</u>, <u>Chapter 17</u> for additional guidance on EFH). Per the 2008 USACE rule, all mitigation plans that are not mitigation banks must include the Twelve Components of a Compensatory Mitigation Plan. Mitigation banks are permitted by the USACE and are required to meet these components to have the permit issued.

Correspondingly, the State of Florida requires mitigation as part of the permitting criteria included in Volume I, Chapter 10 of the Statewide ERP <u>Applicants Handbook</u>. Mitigation is also included as parts of Sections 373.4135, 373.4136, and 373.4137, F.S. and Chapter 62-342, Florida Administrative Code. Section 373.4137, F.S., was created in 1996 specifically to meet FDOT's transportation needs.

Special regulatory consideration (from a state perspective) includes state cumulative effects. FDOT projects are assessed on provision of the required mitigation to offset these impacts, as well as for their potential cumulative impacts and impacts to listed species. Wetland mitigation must be provided within the same WMD-defined regulatory drainage basin to provide reasonable assurance that wetland impacts will not cause unacceptable cumulative impacts. Drainage basin maps can be found on each of the WMD websites. A Cumulative Impact Evaluation, in accordance with Section 10.2.8, Volume 1 of the <u>Applicants Handbook</u>, may be required to justify mitigating outside of the project mitigation basin.

Historically, cumulative impact evaluations were costly. However, an abbreviated analysis is now accepted if it considers the extent of privately owned "higher-risk" wetlands located within that WMD defined regulatory drainage basin and compares it to the extent of "low-risk" wetlands in conservation.

In 2023 the USACE, Jacksonville District established the use of a *Proximity Factor Tool* for determining the amount of compensatory mitigation required for Department of the Army permits. See "<u>Standard Operating Procedure – Assessing a Proximity Factor for Compensatory Mitigation Required to Offset Unavoidable Impacts to Waters of the United States</u>", dated March 30, 2023. A proximity factor will be assessed for any compensatory mitigation proposed outside of approved mitigation bank and in-lieu fee Program/Site service areas or outside the impact 8-digit Hydrologic Unit Code for permittee responsible mitigation. The proximity factor is based on ratio multipliers for multiple variables. The resulting proximity factor is then multiplied by the number of credits required by the USACE to compensate for unavoidable adverse effects to aquatic resources (e.g., via application of an approved functional assessment such as the Uniform Mitigation Assessment Method). The Proximity Factor Tool is intended to provide a more consistent,

predictable, and efficient approach to evaluating the location of proposed compensatory mitigation sites.

For both regulatory authorities, mitigation for wetland impacts may include the purchase of mitigation bank credits; the transfer of funds to a third party such as the WMD program (permittee-responsible mitigation), that will do or has done mitigation; or undertaking the mitigation either onsite or offsite (permittee-responsible mitigation).

Third-party mitigation includes FDOT's Mitigation Program carried out by participating WMDs. In these cases, the permitting of the mitigation is generally conducted concurrently with the project permitting. However, it is also possible that the permitting for the mitigation site may have already been obtained for an established WMD mitigation service area. The USACE considers this as a form of Permittee Responsible Mitigation; therefore, the WMD is responsible for providing the documentation required to the permitting agency per Statute.

The final type of mitigation is onsite or offsite mitigation, as established by the applicant. This type of mitigation is permitted concurrently with the project permitting impacts. Additional information on this type of mitigation is found in <u>Section 5.6.1.3</u>.

During the state and federal permitting processes, compensatory mitigation is proposed only after avoidance and minimization (also known as elimination and reduction) have been adequately demonstrated and consequently, unavoidable impacts are anticipated. The degree to which avoidance and minimization is demonstrated varies for different FDOT projects. For capacity improvement projects, the widening of the roadway to the inside or the outside is evaluated as part of the PD&E and Design team analysis. Often, engineering constraints established for public safety ultimately determine the location of expansion. These constraints are utilized to demonstrate avoidance and minimization of wetland impacts for state and federal agencies.

New roadway footprints exhibit greater variability regarding the alignment and proposed impacts. The location of stormwater ponds along a project corridor can undergo scrutiny based on alignment options.

For both types of FDOT projects, avoidance and minimization criteria are typically met during the alternatives analysis in a PD&E Study and can be demonstrated to the reviewing agencies by providing the study documents/technical reports. The alternatives analysis conducted during the PD&E Study considers multiple criteria from anticipated social, economic, wildlife, and wetland impacts, which may provide the documentation necessary to satisfy state and federal permitting criteria.

5.6.1 Florida Department of Transportation Mitigation Mechanisms

To demonstrate that the project adequately offsets the proposed impacts to wetlands and surface waters, the permit applicant must provide a Mitigation Plan for review and approval. For FDOT projects, this plan typically proposes the purchase of mitigation bank credits or participation in FDOT's Mitigation Program. In special cases where neither option is available, FDOT will undertake the responsibility for designing and implementing a Mitigation Plan. These special cases are discussed in <u>Section 5.6.1.3</u>.

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Note: State and federal wetland mitigation requirements for a given project may not be the same. As such, FDOT should consider options that address both regulatory considerations and/or options that result in the least costly alternative.

To evaluate each mitigation alternative, it is sometimes prudent to construct a matrix evaluating all options. This matrix will serve as the decision-making instrument and provides clear documentation of decisions for the project file. Multiple criteria should be considered to determine which mitigation option would completely offset the project impacts and ultimately result in state and federal permit issuance.

The approximate cost for wetland mitigation is typically estimated in the PD&E phase for projects with PD&E studies. Once a project is in design, the EPC and EMO would need to review mitigation needs (if available) and use cost comparison (required per statute) of banks versus WMD (when WMD mitigation is available) to determine the mitigation option to be used. The approximate cost of mitigation is updated as the design progresses and should be based on functional assessment scores (e.g., UMAM, WRAP, etc.), and the average cost of mitigation options in the region (e.g., mitigation bank credits).

It is important to note that costs are typically the biggest consideration for the type of mitigation ultimately recommended for a project. State and federal wetland mitigation requirements may not be the same; however, a single mitigation option that satisfies both agencies' requirements typically represents the most cost-effective option.

Additional items to consider include the ecological type(s) of wetland mitigation required. Regulatory agencies typically require that impacts be offset with type for type mitigation. This entails the replacement of freshwater wetlands with freshwater wetland mitigation. Similarly, forested, or herbaceous impacts are required to be offset by forested or herbaceous mitigation respectively. Shrub-dominated wetlands can typically be offset by either forested or herbaceous mitigation. Cost and availability should be a consideration in which type of mitigation is proposed for shrub wetland impacts.

For estuarine or marine wetland impacts, it is important to specify the type of habitat, as impacts to mangrove or seagrass require that these specific habitat types are provided as mitigation. Less habitat-specific estuarine impacts, such as cordgrass or needle-rush marsh, do not require specific offsets by vegetation type.

FDOT Districts perform mitigation planning through the annual submittal of an inventory of proposed projects (within a three-year window) that includes the type of wetland impacts, regulatory mitigation basins, permitting schedules and whether listed species or special designated impacts such as EFH are part of a project. As discussed in <u>Section</u> <u>5.1.3.3</u>, EFH is under the purview of NMFS for the management of fisheries and their habitats. Note that impacts to EFH resources cannot always be offset by the WMD or mitigation banks as few mitigation banks currently contain marine/estuarine mitigation

credits. Coordination with the WMD and NMFS is essential to ascertain whether the type of resource impacts can be adequately offset.

Currently, FDOT's Mitigation Program only operates in four WMDs: Northwest Florida Water Management District (NWFWMD), St. Johns River Water Management District (SJRWMD), Southwest Florida Water Management District (SWFWMD), and Suwannee River Water Management District (SRWMD). South Florida has not typically participated. It is important the department continues to submit the inventory to the WMDs to meet the requirements of Section 373.4137, F.S..

The WMDs use the inventory to develop a mitigation plan by July 1st of each year. Mitigation services by the WMDs are critical for those Districts where mitigation credits are limited or do not exist. For more information regarding FDOT's mitigation mechanisms, please reference the <u>Environmental Mitigation Payment Processing Handbook</u> on FDOT's website.

5.6.1.1 Mitigation Banks

Mitigation banks occur throughout Florida. The <u>FDEP Mitigation Banks webpage</u> provides a complete listing of the locations and service areas of the various state-permitted mitigation banks in Florida, as well as a spreadsheet list of mitigation banks and GIS files for service areas. The WMDs also include mitigation bank information on their individual websites.

A mitigation bank service area is the defined geographic area within which the bank credits may be used to offset impacts. Details regarding each bank can be identified by viewing individual bank websites, or by contacting the bank directly.

The USACE also provides a listing of federally approved mitigation banks at the <u>Regulatory</u> <u>In-Lieu Fee and Bank Information Tracking System (RIBITS)</u> webpage. The USACE site includes detailed information regarding credit availability, type of credits, and mitigation bank service areas. A dropdown menu on the left side of the RIBITS homepage allows the user to filter results by USACE district (e.g., Jacksonville District).

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HELPFUL HINTS: When accessing the RIBITS website, users may receive a warning about the website's security certificate. RIBITS is hosted on a USACE server within the Department of Defense (DOD). Follow the browser's instructions for adding the USACE website security certificate.

Mitigation banks typically cover a service area that follows a single USGS Hydrologic Unit Code basin boundary (or sometimes multiple basin boundaries). Generally, mitigation bank credits are accepted by the USACE if the bank occurs within the same watershed or Hydrologic Unit Code as the project impacts.

However, since FDOT projects are linear facilities providing public services, provisions can be made allowing FDOT to utilize credits from mitigation banks located outside of the watershed where the wetland impacts occur when banking options within the same watershed are not available (Rule 62-342.600, F.A.C.). HELPFUL HINTS: Approval of mitigations options outside the watershed is at the discretion of the USACE and WMD and may require a Cumulative Impact Evaluation. As such, it is prudent to have upfront and early coordination with both state and federal reviewers prior to moving forward with a mitigation plan that proposes such an activity.

The WMD also accepts mitigation credits from a mitigation bank where project impacts occur within the mitigation bank service area. However, a Cumulative Impact Evaluation may be required for the use of mitigation bank credits where the impacts occur outside the limits of the regulatory mitigation basin.

For FDOT projects that propose to use a mitigation bank within the same federal service area, USACE reviewers will verify that the mitigation bank offsets the impacts. As an example, if the project impacts hardwood freshwater-forested wetlands and freshwater marsh, the mitigation bank must provide both types of credits to offset the impacts.

If a mitigation bank credit purchase is proposed, FDOT must provide the WMD and the USACE with a **Letter of Reservation** from the bank. Typically, both state and federal permits include conditions for FDOT projects, mandating that the mitigation credits be purchased before the construction or wetland impacts begin.

5.6.1.1.1 Acquisition of Mitigation Bank Credits

The first step in a mitigation plan is to analyze the impacts and determine what type of mitigation will be required to offset the impacts associated with the proposed project. This analysis also includes listed species, seagrass and other EFH impacts. As required in Section 373.4137, F.S., FDOT must consider the use of credits from a permitted mitigation bank. Considerations include the following:

- Availability of suitable and sufficient mitigation bank credits within the transportation project's area;
- The ability to satisfy regulatory and resource agencies' regulations;
- The availability of suitable and sufficient mitigation;
- Existing or proposed WMD or FDEP mitigation sites initiated with FDOT mitigation funds; and
- The ability to satisfy state and federal requirements, including long-term maintenance and liability.

Additional items that FDOT may also consider include the project schedule, mitigation bank credit availability, and cost:

• Schedule - If a mitigation bank(s) is located within the same WMD-designated drainage basin and has both federal and state permits, the purchase of credits from a mitigation bank is typically the fastest and most straightforward method of satisfying the compensatory mitigation requirement. If more than one mitigation bank can provide credits, then a competitive bid process is required.

- Availability It is important to understand if a mitigation bank is located within the appropriate Regulatory Basin to satisfy state criteria, or within the watershed to satisfy federal permit criteria.
- **Cost**: The cost of mitigation bank options may appear to be simple dollar figures. However, the functional assessment method for the federal and state mitigation bank permit must be considered. An example would be a mitigation bank with a functional assessment other than UMAM that may at first glance appear to be cheaper than other options. However, mitigation bank credits purchased must meet the conditions set in the state and/or federal environmental permit. FDOT's Invitation to Bid (ITB) process puts the responsibility on the banker to provide credits that meet FDOT needs. If a bank offers credits other than UMAM, it is responsible for the necessary documentation from the regulatory agency that meets agency approval for offsetting FDOT impacts.

For FDOT projects, mitigation planning will typically start during the PD&E Study (for larger projects). For this phase, mitigation planning includes a list of mitigation options that would satisfy state and federal permitting criteria.

If multiple mitigation bank options exist for a FDOT project, the Environmental Permit Coordinator will issue an Invitation to Bid for mitigation credits. The Invitation to Bid specifies the detailed mitigation requirements, including the mitigation types (freshwater, herbaceous, forested) and the state and federal basins/service areas. Invitation to Bid templates for purchasing mitigation credits can be found within the <u>Environmental</u> <u>Mitigation Payment Processing Handbook</u>.

Vendors with available mitigation credits in the specified basin respond to the Invitation to Bid and provides a cost per mitigation credit. This process provides an opportunity for FDOT to identify the most appropriate and cost-effective mitigation bank option. The Department selects a vendor and enters into a contractual agreement, locking down mitigation prices for the duration of the contract. For more information on the processing of mitigation payment, please refer to <u>Environmental Mitigation Payment Processing Handbook</u> on FDOT's website.

The purchase of mitigation bank credits is typically the preferred/simplest option if the credit costs are acceptable, and the available credits offset FDOT project impacts. If no mitigation banks are available to satisfy federal and state criteria, the next step is to see if the project impacts are located within a WMD that participates in FDOT's Mitigation Program.

5.6.1.2 Participation in Florida's Department of Transportation Mitigation Program

In 1996, the Florida Legislature created FDOT's Mitigation Program (Section 373.4137, F.S.) that allows the WMDs to provide mitigation for FDOT transportation projects. The state finds that environmental mitigation for the impact of transportation projects proposed by the Department of Transportation (or a transportation authority established pursuant to Chapter 348 or Chapter 349) can be more effectively achieved through regional, long-range mitigation planning rather than on a project-by-project basis.

The state intends that mitigation to offset the adverse effects of transportation projects be FDOT-funded and carried out using mitigation banks and any other mitigation options that satisfy state and federal requirements. The mitigation should be provided with efficiency, timeliness in project delivery, and cost-effectiveness. FDOT Districts must also consider the purchase of credits from public and private mitigation banks when determining which activities will be included in the plans.

One mitigation option available for FDOT outlined in Section 373.4137, F.S., directs the WMDs to plan and implement mitigation for FDOT projects in the adopted FDOT work program.

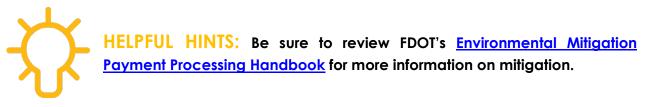
If the project is located within a WMD that participates in FDOT's Mitigation Program, the next step is to coordinate with the appropriate WMD to see if they have an existing project to offset the impacts, or if they can offset the impacts with a new project. If the WMD can offset the impacts, then the project is added to the program. Typically, projects are added to the program when they are within three years of permitting to allow the WMD sufficient time for planning.

The strength of this program is that the WMDs can group multiple FDOT projects together within a regulatory mitigation basin, to enact large-scale mitigation typically associated with corridor concepts. According to the 2008 USACE rule, all mitigation plans must include the following Twelve (12) Components of a Compensatory Mitigation Plan:

- 1. **Objectives** A description of the resource type(s) and amount(s) that will be provided, the method of compensation (wetland creation, restoration, or preservation), and how the anticipated functions of the mitigation project will address watershed needs.
- 2. Site selection A description of the factors considered during the mitigation site selection process. This should include consideration of watershed needs, onsite alternatives where applicable, and practicability of accomplishing ecologically self-sustaining aquatic resource restoration, establishment, enhancement, and/or preservation at the mitigation project site.
- 3. Site protection instrument A description of the legal arrangements and instruments (including site ownership) that will be used to ensure the long-term protection of the mitigation project site.
- 4. **Baseline information** A description of the ecological characteristics of the proposed mitigation project site, and in the case of a Section 404 permit application, a description of the impact site.
- 5. **Determination of credits** A description of the number of credits to be provided, including a brief explanation of the rationale and calculations for this determination. For permittee-responsible mitigation, this should include an explanation of how the mitigation project will provide the required compensation for unavoidable impacts to aquatic resources resulting from the permitted activity.

- 6. **Mitigation work plan** Detailed written specifications and work descriptions for the mitigation project, including: the geographic boundaries of the project; construction methods, timing, and sequence; source(s) of water; methods for establishing the desired plant community; plans to control invasive plant species; proposed grading plan; soil management; and erosion control measures.
- 7. **Maintenance plan** A description and schedule of maintenance requirements to ensure the continued viability of the resource once initial construction is completed.
- 8. **Performance standards** Ecologically based standards that will be used to determine if the mitigation project is achieving its objectives.
- 9. Monitoring requirements A description of parameters that will be monitored to determine if the mitigation project is on track to meet performance standards and if adaptive management is needed. A schedule for monitoring and reporting monitoring results to the USACE District Engineer must be included.
- 10. Long-term management plan A description of how the mitigation project will be managed after performance standards have been achieved to ensure the long-term sustainability of the resource, including long-term financing mechanisms and which party is responsible for long-term management.
- 11. Adaptive management plan A management strategy to address unforeseen changes in site conditions or other components of the mitigation project, including the party or parties responsible for implementing adaptive management measures.
- 12. **Financial assurances** A description of which financial assurances will be provided and how they are sufficient to ensure a high level of confidence that the mitigation project will be successfully completed in accordance with its performance standards.

The USACE Jacksonville District developed a useful summary presentation on <u>Compensatory Mitigation and the Mitigation Rule</u>. It may also be useful to review the original Federal Register notice for the <u>Compensatory Mitigation for Losses of Aquatic</u> <u>Resources</u>, which contains explanations for the 12 components (beginning on page 19670). The USACE refers to this mitigation type as permittee-responsible mitigation.



FDOT staff not only provide input to the program with regard to offsetting impacts, oversight of the compliance and permitting is ultimately the responsibility of FDOT. As compliance monitoring is carried out by the WMD, FDOT's role is primarily review and oversite to ensure the success of the mitigation.

Northwest Florida WMD FDOT Mitigation Program

The NWFWMD structured their FDOT mitigation program as a regional "Umbrella Plan" that is federally permitted as an In-Lieu Fee program. This type of program gains federal approval in advance and therefore provides an additional option for FDOT projects.

Use of the In-Lieu Fee program is designated for projects located in areas where private mitigation banks do not currently exist. If a mitigation bank is available to offset an impact, then FDOT will purchase mitigation bank credits. There are several areas within the NWFWMD boundary where no mitigation banks exist, which allows this program to fund many regional mitigation projects. The NWFWMD maintains a <u>ledger of all mitigation</u> <u>projects</u> on their website.

St. Johns River WMD FDOT Mitigation Program

The SJRWMD has an active FDOT Mitigation program which provides mitigation options for FDOT projects in areas that do not currently have mitigation banks. This program also provides options for projects with resource-specific impacts where mitigation banks do not offer those credit types, such as EFH or submerged aquatic vegetation.

FDOT can participate in this program by contacting the WMD program lead and adding projects to the program one-to-three years before permit applications are submitted. SJRWMD requests an annual update on anticipated mitigation needs.

WMD ERP permit application reviewers typically document in the permit technical staff report that the project is going through FDOT's mitigation program, and do not require any additional information from FDOT regarding mitigation. It is not required that the mitigation plan be constructed by the state before the impacts occur.

Southwest Florida WMD FDOT Mitigation Program

The SWFWMD FDOT mitigation program currently has numerous operational mitigation projects. This program operates to offset impacts to FDOT projects in basins that currently do not have a mitigation bank option.

Suwanee River WMD FDOT Mitigation Program

The SRWMD also participates in FDOT's Mitigation Program. Similar to SWFWMD, this program operates in basins that do not currently have a mitigation bank option.

5.6.1.3 Site-Specific Mitigation

If FDOT does not have a mitigation bank or a participating WMD with a FDOT Mitigation program to offset impacts, then the mitigation will be designed, permitted, and implemented directly by the FDOT. For projects where FDOT is undertaking the mitigation responsibilities, the mitigation plans must be approved by both federal and State agencies. This mitigation type is also referred to by the USACE as permittee-responsible mitigation (see **Wetland Mitigation Appendix**).

Examples of situations where this may occur include projects with impacts to resource types such as seagrass, submerged aquatic vegetation, certain listed species, or EFH.

Planning for these mitigation activities should commence well in advance of the permit application submittals. It is important that FDOT confirms with the permitting agencies and resource agencies from the beginning that the proposed plan and general concepts are valid, and that all parties agree on the estimated credits that will be generated by the proposed mitigation activities.

These discussions should include details regarding construction, easements, monitoring requirements, maintenance requirements, and compliance specifications to ensure that everyone is aware of project specifics and that all mitigation aspects are addressed early on. Examples of discussion items include special soil needs, special grading/planting, and pay items.

FDOT is responsible for meeting the mitigation conditions in the issued permit which usually include enforceable goals, time frames, and maintenance and monitoring plans. If a mitigation site is created to meet federal requirements, the mitigation must meet the USACE 12-component plan pursuant to 40 CFR Part 230: Compensatory Mitigation for Losses of Aquatic Resources.

If the site is created to fulfill state requirements, the mitigation must meet the conditions of the state permit Volume I, Chapter 10.3 of the ERP <u>Applicants Handbook</u>. Generally, transportation projects require both federal and state authorizations; therefore, developing a mitigation plan that meets both federal and state requirements is a good best practice.

5.7 Species Mitigation

Federal Species Mitigation

The USFWS and the NMFS regulate federally listed wildlife (endangered and threatened species). USFWS and NMFS are commenting agencies for submitted USACE/USCG permit applications. As described in <u>Section 5.4</u>, a "may affect, is likely to adversely affect" determination requires formal consultation with the Service agency with purview over the species, and usually results in a BO that includes an Incidental Take Statement." As part of the consultation process, the Services sometimes require mitigation for the proposed impacts to some listed species in Florida. Coordination with USFWS and NMFS to discuss all available options should occur. In many instances, seasonal activity restrictions, construction protection measures, or other preventative mechanisms may be enacted to avoid/reduce the impact.

When these preventative options are deemed by USFWS or NMFS to not fully offset the proposed effects to listed species, additional options may have to be explored. Mitigation options for listed species may include the purchase of mitigation bank credits (Panther and Wood Stork), a contribution to an established species conservation fund (e.g., Audubon's crested caracara), or (on rare occasion) the direct purchase of lands for conservation.

Mitigation banks are often the preferred option for FDOT when credits are available and acceptable to the agencies, as it requires no additional action besides purchase of

credits. Some wetland mitigation banks also offer species-specific mitigation. Common examples are credits to offset impact to the Florida panther or the wood stork.

Panther credits must have been permitted as part of an approved mitigation bank permit and are specific to southwest Florida. The wood stork has assigned core foraging areas that are based on a radius from the known rookeries. This radius varies from 13 to 18.6 miles, depending on the geographic location of the project. Typically, USFWS allows wetland mitigation credits to also be used to offset wood stork habitat impacts and will recognize any mitigation bank that is within the core foraging area of a wood stork rookery as appropriate mitigation (see **Wood Stork Appendix**).

The USFWS currently has approved third-party recipient organizations that accept funding to offset effects to listed species. Currently, there are four USFWS approved speciesspecific third-party funds that may offset impacts to the species. The species that are covered include the Florida panther, northern Audubon's crested caracara, Eastern indigo snake, and Okaloosa darter.

As a last resort, FDOT will undertake the conservation of habitat being used by listed species (or habitat appropriate for use) when no other mitigation option is available. These situations are not common for FDOT and would require negotiations with USFWS or NMFS.

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HELPFUL HINTS: For projects that may have listed species impacts and will require a BO, coordination with USACE and USFWS/NMFS should occur early in the process to ascertain whether the mitigation plan for the wetland impacts could also offset proposed impacts to listed species.

For unavoidable impacts to habitat under NMFS jurisdiction, the HCD will review the relevant information on the resource types and degree of impacts, and the compensatory mitigation measures proposed. Most habitat impacts will require a type-for-type mitigation, where the proposed mitigation measures involve the same habitat/community types as the impacts.

Many of these project-specific plans will involve coordination between Design, Construction, and Environmental staff to ensure that the appropriate mitigation information is carried forward to construction. Once NMFS staff agree with the proposed impacts and mitigation, concurrence will be provided to the lead permitting agency and included as conditions in the permit.

Impacts to species protected under the PRD are handled in the same way as USFWS consultation (as described in <u>Section 5.4</u>), with the exception that the applicant (FDOT) must complete the <u>NMFS Section 7 Informal Consultation Template</u>. This template requires the permit applicant to provide essential information regarding potential impacts to listed aquatic species and/or critical habitats. See **Smalltooth Sawfish Appendix**.

State Species Mitigation

Within the State of Florida, state-listed species fall under the jurisdiction of the FWC. FDOT road projects are evaluated for potential impacts to state-listed species to determine if any additional permitting is required. State permits are currently required for the

disturbance of active burrowing owl burrows and gopher tortoise burrows. Burrowing owl nest disturbance permits may require mitigation in the form of erecting bird perches. A monetary contribution or the conservation of property is not currently required (see **Burrowing Owl, Appendix)**. Gopher tortoises are protected under state law, Chapter 68A - 27.003, F.A.C and require permits to relocate. In addition, gopher tortoise surveying and relocations must be conducted by an FWC certified gopher tortoise agent (see **Gopher Tortoise Appendix** and **FDOT's Gopher Tortoise Handbook**).

On April 20th, 2017, the Florida Fish and Wildlife Conservation Commission approved revisions to the state's bald eagle rule (Rule 68A-16.002, F.A.C.) that eliminated the need for applicants to obtain a state permit for activities with the potential to take or disturb bald eagles or their nests. Under the approved revisions, only a federal permit is required (see **Bald Eagle Appendix**). Note that removing active osprey nests also requires obtaining a permit from the USFWS Migratory Bird Division (see **Osprey Appendix**).

The State of Florida implemented an *Imperiled Species Management Plan* in 2016 that is aimed at imperiled species recovery. This plan addresses species not covered by the USFWS. These species either have not met criteria to be federally listed or are awaiting a formal listing decision. Species conservation measures and permitting guidelines are being developed in support of the Imperiled Species Management Plan. If species surveys are conducted and the species is not detected, no FWC review or coordination will be required through permitting. If the species is present, the review of anticipated impacts will be addressed during the ERP process.

Wetland mitigation will (in most instances) offset impacts to state-listed, wetland dependent species. However, additional mitigation could also include monetary contribution to FWC for species research. FDOT should coordinate closely with FWC to confirm species survey, permitting and mitigation requirements.

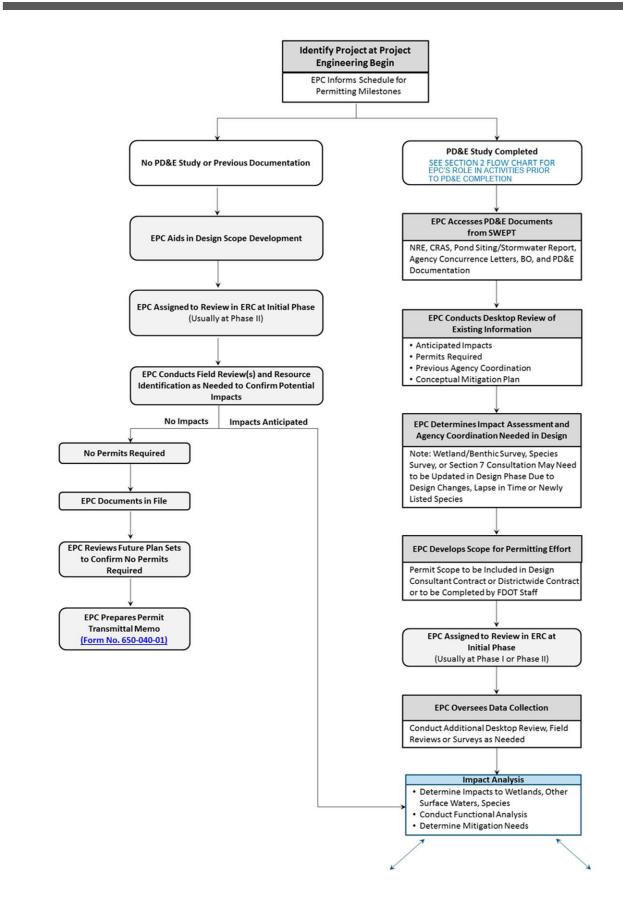
SECTION 6: PERMIT ACQUISITION FROM START TO FINISH

The following subsections outline the process for securing a Florida Department of Environmental Protection (FDEP) or Water Management District (WMD), United States Army Corps of Engineers (USACE), and United States Coast Guard (USCG) permits, beginning with the start of the Design phase through permit issuance. While there may be other permits required (i.e., local agencies), this section focuses on the typical state/federal permitting process for Florida Department of Transportation (FDOT) projects. A brief discussion of the other permit types is also included at the end of this section. It is important to recognize that individual Districts and Florida's Turnpike Enterprise (Enterprise) may have different approaches to completing each permitting task. Additional permitting that may be required based on geographic region and project type should also be considered. Please refer to the **Appendices** for more information regarding these and other permit types (County Permitting, Water Control Districts, Florida Keys National Marine Sanctuary, etc.).

The state ERP permitting process incorporates the impacts to wetlands and surface waters, as well as the management of stormwater systems. A USACE permit is required for dredge and fill activities including any activity in, on, or over wetlands or other Waters of the United States. The USCG permits activities involving the construction or modification of a bridge or causeway across navigable waters of the United States.

Permitting occurs during the Design phase, the phase in which FDOT prepares final construction plans and specifications. The submittal of the permit application documents typically occurs when 60% design plans are completed. Submittal of 60% plans includes the completed preliminary plan and profile with complete drainage design. Typically, with completion of Phase II plans, sufficient information exists for permit application submittal. Permitting may occur earlier for those projects where the Project Development and Environment (PD&E) Study and Design overlap. For some Design-Build (D/B) projects, FDOT obtains permits prior to Phase II design plan development with the anticipation that the Contractor will further the design for construction and modify the permits accordingly.

Regardless of whether the project is being designed in-house or by an outside consultant team, the process of obtaining the permits will be the same as outlined in this section. The disciplines on the design team that obtain the environmental permits are the drainage engineers and environmental staff. Consultant design teams prepare the permitting packages for the review and final approval by FDOT's Environmental Permits Coordinator (EPC).





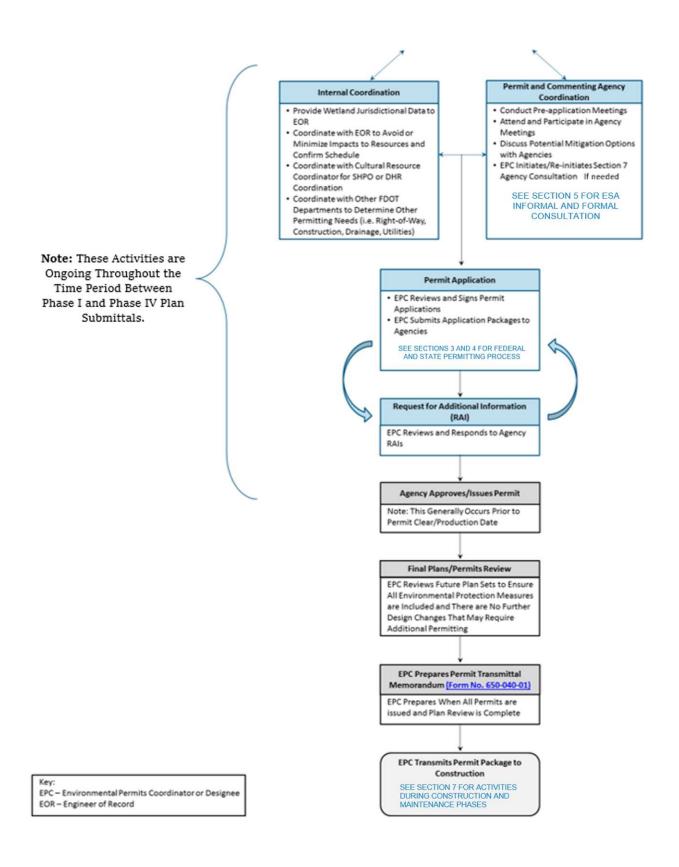


Figure 6-1 Environmental Permit Coordinators Role in Permit Acquisition Process

6.1 Scope Permitting Effort (Step 1)

For the typical roadway project, FDOT will assign an in-house Project Manager (PM) to prepare a Scope of Services and select a consultant team to design and permit the project. The selected consultant team is usually comprised of a main "prime" consultant that manages the many disciplines and firms. The PM for the prime consultant will be the main contact with FDOT's PM. In this case, the EPC will provide input to the Scope of Service and preliminary staff hour estimate related to the permitting effort. This will include reviewing existing information available from the PD&E Study, if applicable, to use as a basis for identifying the level of permitting and resource analysis required. The scope will outline the anticipated permits required and an estimate of the level of natural and cultural resource identification and analysis, agency coordination and mitigation required. The scope will be established using the <u>FDOT Design Standard Scope of Services</u> and <u>Design Staff Hour Estimation Forms</u>. The EPC may also be required to review the consultant's proposed scope and staff hour estimate, as well as attend the consultant negotiation meeting.

Note that sometimes FDOT may design and permit a project using in-house staff or inhouse consulting support rather than advertise the project. In this instance, the EPC will coordinate with FDOT or consultant staff directly to develop a scope and staff hour estimate to perform the permitting effort.

6.2 Review Project Plans in Electronic Review Comments System (Step 2)

Once a project is in the Design phase, each plan submittal (Phase I to Phase IV, see <u>Table</u> <u>6-1</u>) is routed through the Electronic Review Comments (ERC) system for review by each District office/discipline. The EPC will receive an electronic notification from the ERC at the start of all phases to review the plans or designate other FDOT or consultant staff to identify/confirm the permits required based on the scope of work (drainage, in-water work, reconstruction, etc.) and level of natural resource impacts.

PHASE	DESCRIPTION	PERCENTAGE
PHASE I	Initial Plans - establishment and review of preliminary geometry and grades, drainage design, traffic control, and ROW.	30% Plans
PHASE II	Constructability - the proposed plan and profile with complete drainage design. Preliminary design of the plans themselves is complete at the completion of Phase II. Sufficient information exists for permit application submittal.	60% Plans

 Table 6-1
 Plan Phases Explained (see FDOT Design Manual, 301.2
 Phase Submittals)

PHASE	DESCRIPTION	PERCENTAGE
PHASE III	Biddability - includes completion of all plan sheets and quantity calculations.	90% Plans
Phase IV	Plans Complete - Final submittal of the project contract plans where specifications are complete, and all corrections noted in the Phase III plans are complete.	100% Plans
Final Plans	Final Plans/Plans, Specifications, and Estimates (PS&E)	Production Complete

The assigned reviewer will be notified by the ERC system via email of when the comments are due and when the designer submits comment responses. Once responses are entered by the designer, the reviewer must either accept the response; accept and request additional information; or reject the response. The intent of this system is to resolve issues with the plans, provide information between the reviewer and the design team, and document this coordination effort.

Reviewer's comments will generally focus on the following main issues:

- a) Advise the designer of the status of permitting activities;
- b) Request the information (drainage report, permit sketches, etc.) needed to prepare the applications;
- c) Identify possible natural resource impacts and possible avoidance/minimization measures;
- d) Confirm or request the limits of environmentally sensitive areas, habitats, and erosion control measures be shown in the plans; and,
- e) Document how project commitments are being addressed.

6.3 Data Collection (Step 3)

<u>Section 5</u> describes the process and tools needed to identify key resources and quantify impacts; however, in general, data collection includes both a desktop evaluation of available information and field reviews. Data collection is usually initiated with the first phase review submittal (Phase I or Phase II dependent on project schedule). A more detailed analysis will be completed prior to submittal of the permit application.

When beginning the data collection phase, it is important to note if a PD&E Study was completed for the project or if it is a project that was initiated in the Design phase. The documents prepared during the PD&E Study contain supporting information (in-depth analysis of the potential effects of the project on natural, physical, cultural, and social resources) that is pertinent to the preparation of the permit applications. If the EPC does not already have copies of the documents, they can be acquired via the following:

- Download the documents directly from the State-wide Environmental Project Tracker (SWEPT);
- Request copies from the Project Development PM; or,
- Request copies from the Environmental Management Office (EMO).

If the project was initiated in the Design Phase, this is most likely the initial data collection phase. The level of desktop and field reviews are based on the proposed scope of work and potential impacts.

Existing Permit Searches

It is prudent to review the project corridor and adjacent areas for existing permits. A search can be conducted through the regulatory agency permit portals: WMD (ePermitting), FDEP (Business Portal), and other county/local web-based systems. To perform a general search, use the mapping tools to identify application and permit numbers that can be looked up. The FDOT ProjectSuite system (Permits Section) can also be used, but this would require a knowledge of Financial Management numbers.

A review of permits within and adjacent to the proposed project corridor can provide insight into:

- past agency positions, potential permit conditions, and restrictions;
- environmental issues and how they were addressed;
- technical information, reports, exhibits, maps, and contacts;
- the "story" of the development of an area including stormwater management systems, hydrology, and regional connectivity;
- agency guidance or restrictions on regional water stages, receiving waters, flows, water quality, and maintenance issues; and
- history of resource agency communications and coordination activities.

Not all projects will have existing permits or provide all the information listed above; however, it is a good place to start and may save time and prevent duplication of efforts.

6.4 Impact Analysis, Internal Coordination, and Interagency Coordination (Step 4)

Impact analysis is based on the footprint of construction over protected resources including jurisdictional wetlands, receiving waters, benthic submerged habitat, Sovereign Submerged Lands, and designated critical habitat. To identify these areas within the construction footprint, close coordination with federal and state agencies including commenting agencies is necessary. These generally include the Florida Fish and Wildlife Conservation Commission (FWC) and State Historic Preservation Officer (SHPO) at the state level and the United States Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), and Native American tribes at the federal level. In all cases, avoidance and minimization of the resource impacted must be demonstrated which may

mean modification of the project design. Generally, avoidance and minimization occur during the PD&E phase and are refined in Design as a component of the permitting process. The permitting process often begins with an interagency meeting to introduce the project and identify areas of concern by the agencies prior to submittal of a formal application. See <u>Section 5</u> for additional details relating to the impact analysis process.

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HELPFUL HINTS: It is beneficial to ensure that a thorough avoidance and minimization review is conducted during the PD&E phase. Otherwise, the project schedule may be negatively impacted if significant project modifications are required as part of the permitting process.

During the Design phase, it is important to coordinate with other disciplines within the District including but not limited to Roadway, Drainage, Environment, Structures, Construction, Maintenance and Utilities, to ensure all aspects of the scope of work and impacts are addressed in the application. Often, the means and methods of construction are not developed during Design. However, the Construction Office can provide guidance as to whether construction will be from land or require in-water access via barge or floating platform or require dewatering for excavation associated with drainage or utility work. Utility work can be included in a project via a Utility Work by Highway Contractor Agreement, which may need to be incorporated into FDOT's permit applications. These are just a few examples of the issues that can be resolved with good internal coordination.

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HELPFUL HINTS: If dewatering (the removal of water) from an area is required for construction, FDOT will need the Contractor to submit a Consumptive Use Permit during the design phase and as part of permit acquisition.

6.5 Agency Consultation as Appropriate (Step 5)

FDOT works with regulatory agencies in the early stages of a project to discuss the design and identify areas of concern to have a more streamlined permitting process. Projects may be permitted in PD&E if resource impacts are known, and detailed plans and drainage are available. This may become more achievable given the current initiative to combine PD&E and Design scopes of work. Environmental Technical Advisory Team (ETAT) representatives at the resource and permitting agencies (USACE, USCG, FDEP, USFWS, NMFS, FWC, etc.) work with FDOT to expedite project review and provide comments on the resources/activities under their jurisdiction. These ETAT representatives participate in review of project impacts in the early stages, and some are also responsible for reviewing permit applications. Therefore, developing and maintaining professional relationships with them is highly recommended. Some projects will have concurrence letters from state and federal resource agencies that were obtained as part of the PD&E Study prior to submitting permitting applications. These letters can be critical since commenting agencies have already been consulted on the projects. However, if there are design changes resulting in impacts to areas that have not been previously assessed, or new federal or state-listed species need to be evaluated, then consultation will need to be reinitiated.

Environmental Protection Agency Coordination

The Environmental Protection Agency (EPA) is provided with an application package for review, as part of the USACE Public Notice Process for standard/individual permits. If the EPA chooses to provide a response, they have 30 days to respond.

The EPA may make comments to obtain assurance that water quality standards will be met. The guidelines require that no discharge of dredged or fill material shall be permitted that will cause or contribute to significant degradation of the waters of the United States (WOTUS). Water Quality Certification ("401 certification"), which is implemented through the ERP process by the WMDs and FDEP on behalf of the EPA, is required prior to issuance of the USACE 404 permit and/or USCG bridge permit.

State Historic Preservation Officer (SHPO) Coordination

Nearly all FDOT road project permit applications are sent to the SHPO, within the Division of Historical Resources (DHR) of the Department of State, for review for the presence of historical, cultural, or archaeological sites within the proposed construction parameters.

The SHPO is notified as part of the Public Notice Process for Individual permits and has 30 days to respond to the USACE (Section 404) after receipt of the Public Notice. Depending upon the documentation provided in the application package, the SHPO may issue a Request for Additional Information (RAI) letter where information relevant to historical, cultural, or archaeological issues is deemed incomplete. The SHPO may also request that the applicant perform an archeological survey.

If the project went through the PD&E process, a historic and/or archaeological survey may already exist but may need to be updated to reflect any changes to the Area of Potential Effect (APE), which varies according to project scope and location. The results of the analysis would have been documented in the Cultural Resource Assessment Survey (CRAS) prepared during the study and would be referenced in the application package.

Many minor projects may not have undergone a PD&E Study and could require a historic and/or archaeological survey (see 106 Programmatic Agreement in <u>Section 5.1.4</u>). At a minimum, a desktop review should be completed prior to the application submittal, to determine if any previously identified historical, cultural, or archaeological resources occur within the project area. The USACE and state permitting agencies require a documented record of compliance with associated historic preservation laws prior to issuing a permit. The EPC should coordinate with the District Cultural Resource Coordinator (DCRC) to obtain a copy of the cultural resource documentation to include in the permit application.



HELPFUL HINTS: Once Design has reached at least 30% (Phase I), it is prudent to review any areas that were not part of the PD&E Study, to ascertain whether the APE included these areas. Any areas not included in the previous surveys should be surveyed (in coordination with SHPO) prior to submitting permit applications.

Tribal Coordination

For road projects that are in, or adjacent to, Tribal lands, or on areas of tribal interest, consultation must occur with the appropriate Tribal representatives. The Advisory Council on Historic Preservation (ACHP) regulations contain provisions requiring consultation with Indian Tribes. The USACE will consult with a representative designated by the Indian Tribe, in addition to consulting with the SHPO. The ACHP regulations also require consultation with any Indian Tribe that places historic and cultural significance on historic properties, including traditional cultural properties that may be affected by the proposed road project, even if those historic properties are located on private lands. Effective consultation requires informed communication with Native Americans, and consideration of their interests during the decision-making process. Guidance for consultation with Native Americans is found in the US Army Corps of Engineers Tribal Consultation Policy and **Related Documents.** Section 106 of the National Historic Preservation Act (NHPA) and **Part** 2, Chapter 8 of the PD&E Manual provide additional information on this topic. The OEM, in coordination with the DCRC, will lead any consultation efforts with the Tribes during the PD&E phase for federally-funded projects. Once the permit application has been submitted, the permitting agency will then take the lead for any subsequent tribal consultation required. The EPC should coordinate with the DCRC on any Tribal issues that arise during permitting.



HELPFUL HINTS: Correspondence between FDOT and a Native American Tribe should be conducted by the Department's Office of Environmental Management Director.

6.6 Prepare and Submit Permit Application (Step 6)

Pre-Application Meeting(s)

After the initial environmental data are collected and field reviews have taken place, the environmental staff will likely need to wait until the drainage analysis is complete before scheduling a pre-application meeting with the state agency. Pre-application meetings with the USACE are encouraged as appropriate, particularly for projects with large environmental impacts. These meetings are in addition to resource agency coordination during ETDM and PD&E.

HELPFUL HINTS: FDOT District Permitting Offices often hold regularly scheduled Interagency Meetings with their FDEP, USACE, WMDs, and resource agency representatives to facilitate communication, address issues, and obtain guidance. It may be helpful for staff from the District Environment office to attend. Advanced notice to the EPC is required to participate in these Permitting Interagency Meetings.

The pre-application meeting typically occurs one-two months prior to the submittal of the application. These pre-application meetings are meant to notify the agency personnel of the pending application; establish agency expectations of application content; and, identify project-specific issues that should be addressed in the application. The majority of the pre-application meetings allow the department to share project details. The discussion may include permit application items such as wetland impacts, Outstanding Florida Water special basins, marine resources, mitigation options, listed species surveys, dredge/fill activities, cultural resources, sovereign submerged lands, and cumulative effects.

More than one pre-application meeting may be held if scheduled early in the Design Phase. The additional meeting(s) may be used to discuss/gain concept approval on a large project prior to completion of Phase II design plans, or to discuss a design change that has the potential to affect permitting. The more complex the project, the more beneficial it is to hold multiple pre-application meetings so that potential permitting issues can be quickly recognized and addressed.



HELPFUL HINTS: Pre-application meetings can be a critical link in expediting permitting time frames and should be used to eliminate outstanding variables before submitting the application.

A pre-application meeting may be scheduled in the form of a teleconference or a formal in person meeting, or at a project site. Agencies will require a base level of information so that they can understand the project and the proposed impacts. These items typically include:

- Location map and aerial photograph with geographic references
- Plans or schematics (at least 30%)
- Project General Scope (include phase of project)
- Project Limits
- Land Use (FLUCCS Land Use Map)
- Existing Stormwater Management System structures, drainage basin(s), and receiving system
- Proximity to public lands, state-owned lands, sovereign submerged lands
- Proximity to Outstanding Florida Waters, Aquatic Preserves, Impaired Waters, receiving waters, wellfields, manatee access, etc.

- Wetlands and Other Surface Waters within project limits
- Existing permits, if applicable

The discipline(s) (Environmental resources/Surface Water Management, Water Use, and ROW) required to attend the pre-application meeting should also be specified. Note that FDOT District Permitting Offices often hold regularly scheduled "huddle meetings" / Interagency Meetings with their USACE, WMDs, and resource agency representatives to facilitate communication, address issues, and obtain guidance. Advanced notice to the EPC may be required, as well as submittal of supporting information, to participate in these Interagency Meetings. Interagency meeting discussions are recorded in meeting minutes and can be referenced in permit application packages.

Application Package Essentials

Permit application packages are typically prepared once all internal questions from the Phase II design plan submittal have been resolved between FDOT and the Design team. Essential components of an application package include a description of the proposed project work activities; location and aerial maps; listed species and critical habitat information; identification and description of wetland and other surface water features; cultural resources; stormwater drainage details; dredge and fill amounts (see <u>Figure</u> 6-2); and any information required by the regulatory agency at the time of the pre-application meeting or interagency meeting (as applicable).

At Phase II, engineering sketches and plan sheets will be available for the permit application. Prior to Phase II, wetland and other surface waters, as well as other environmental resources and characteristics of the project area have typically occurred either during the Planning phase (through a PD&E study) or through an initial environmental identification field analysis ("ID Features"). This information is recorded through Geographic Information System (GIS) analyses and can be provided to the design team to be placed into the plans so that impacts to those resources can be evaluated. These plan sheets, often referred to as "Permit Sketches" are used to provide the basis for the application package and are essential for the review of the permit. Permit Sketches include the following:

- locations of and number of all wetlands and other surface waters along the project corridor including hydrological connections shown in plan view;
- wetland lines identified in the universal wetland hash mark symbol(s)(see Section 3.7.4.1 of the <u>FDOT CADD MANUAL</u>);
- all proposed fill into wetlands and other surface waters, as well as new outfall structures, in plan view with call out information for each providing the total acreage and direct impact acreage;
- dredge and fill cross sections (<u>Figure 6-2</u>) showing the wetland and other surface water impacts with the mean high-water mark clearly identified and with call out information showing the volume of material (cubic yards) to be dredged and/or filled in each location, wetland, and/or other surface waters;

- profile of stormwater treatment features, structures, and connections to Surface Waters (Drainage Details – <u>Figure 6-3</u>) with call out information such as optimum stage levels, as well as 10-year, 25 year, and 100-year storm levels;
- plan sheet(s) showing the Erosion Control Plan/Stormwater Pollution Prevention Plan (SWPPP – <u>Figure 6-4</u>);
- documentation of the proposed Impervious Surface Cover in the General Notes plans sheet;
- areas to be avoided or called out for project specific guidance; and
- work limits and right-of-way lines clearly identified.

The purpose of these permit sketches is to provide the permit reviewers with a clear understanding of where the resources are located in relationship to work activities; what work activities are proposed; what impacts are anticipated; what impacts are temporary and permanent; what is being added and what is being removed; proposed stormwater treatment; and any structures or impacts proposed outside of the ROW that are not already permitted (e.g., ROW Occupancy Permits for modifications to regional canals and structures managed by WMDs).



HELPFUL HINTS: The total wetland acreage is important, as isolated wetlands that are less than 0.5 acres do not require mitigation according to the state ERP process (Section 10.2.2.1 of Volume I of the Applicant's Handbook). If an individual ERP is needed, the state permit agency will typically request mitigation for any wetland impact, regardless of acreage. For federal permits, the USACE currently requests mitigation for any wetland impact greater than 0.1 acres.

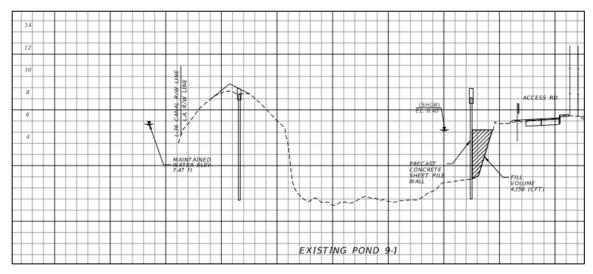


Figure 6-2 Example of Dredge and Fill Cross Section

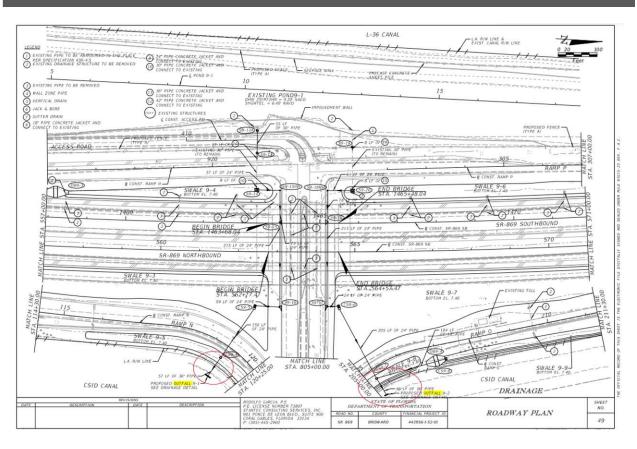


Figure 6-3 Example of Roadway Plans Showing Proposed Outfall Locations.

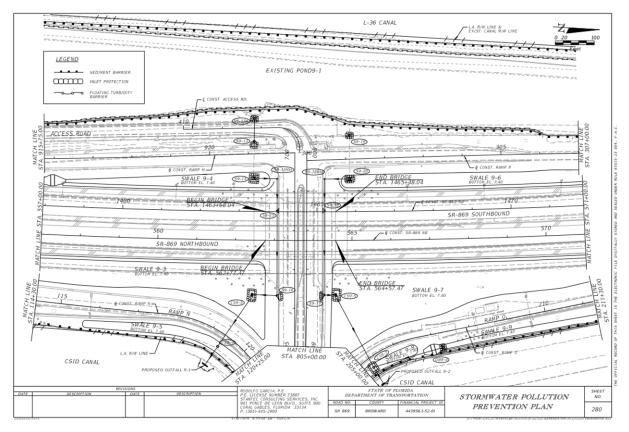


Figure 6-4 Example of a SWPPP Showing Sediment Barriers, Inlet Protection, and Floating Turbidity Barriers.

In addition to the Permit Sketches there are other supporting information and documents that are typically included to provide permit reviewers with a clear understanding of what FDOT is proposing. This supporting information will vary based on the proposed project and types of permits anticipated but may include:

- Letter to the Reviewer a letter introducing the project and summarizing the permit package;
- Project Location Map showing the project location and routes to get there;
- Drainage Report (if applicable) engineering report of hydrologic aspects such as water basins, movement of water, and stormwater details;
- Geotechnical Report (if applicable) results of investigations on the nature and engineering properties of the encountered subsurface materials;
- Environmental Report(s) Natural Resource Evaluation, technical reports, field assessments, etc.
- History of correspondence/meetings/field reviews including meeting minutes;
- Agency concurrence letters (if applicable) SHPO and USFWS/NMFS;
- Identification of existing permits and/or certifications for the project area (if applicable) this will help the permit reviewer understand permitting history and level of permitting that may be required.
- Right-of-Way Maps or Parcel Easement Information

The USACE Regulatory Program has an online application portal and management platform called the Regulatory Request System (RRS). RRS allows users to apply for individual and general permits using online forms and is available at <u>https://rrs.usace.army.mil/rrs</u>. It is recommended to send an email to the general USACE email address (<u>CorpsJaxReg-FDOT@usace.army.mil</u>) and the regional USACE ETAT representative with a copy of a transmittal letter, Form) and applicable attachments. Application for Individual and Conceptual Environmental Resource Permit / Authorization to Use State-Owned Submerged Lands

State ERP Permitting

The ERP permitting process regulates activities that affect wetlands and other surface waters, as well as the management of stormwater systems. Activities include clearing, grading, construction of structures, filling, and dredging, whether the work occurs in uplands, wetlands, or other surface waters (including wetlands and waters that are isolated). The program addresses impacts to resources caused by dredging and filling in wetlands and other surface waters, as well as stormwater runoff quality (stormwater treatment) and quantity (preventing flooding of other properties, slowing down flow, and draining of surface and ground waters).

An ERP is a regulatory permit issued by the WMDs, FDEP, or a delegated local program for work that affects surface water flows. Complete application forms can be found on the **FDEP ERP Program website** and each individual Water Management District website. The

FDEP's Water Permitting Portal website: <u>http://flwaterpermits.com</u> contains links to all five state WMD permitting sites. These sites contain written guidelines as well as online portals for the state application that will walk the user through each step of the application.

Issuance of an ERP constitutes a water quality certification or waiver thereto under section 401 of the Clean Water Act, 33 U.S.C. 1341. In addition, issuance of an ERP in coastal counties constitutes a finding of consistency under Florida Coastal Zone Management (CZM) Program under Section 307 (Coastal Zone Management Act).

ERP Application Sections for FDOT Projects

For FDOT projects, an ERP application will typically require Sections "A," "C," and "E" of the application. Other sections may also be required (<u>Table 6-2</u>) depending upon the project. Section "B" is not needed for FDOT projects as it pertains to permits for single family projects.

FORM	TITLE
<u>62-330.060(1) Sec. A</u>	Section A: State-Owned Submerged Lands/ Dredge and Fill Permit
<u>62-330.060(1) Sec. C</u>	Section C: Supplemental Information for Works or Other Activities In, On, Over Wetlands and/or Other Surface Waters
<u>62-330.060(1) Sec. D</u>	Section D: Supplemental Information For Works or Activities Within Surface Waters (Other Than a Single Family Project)
<u>62-330.060(1) Sec. E</u>	Section E: Supplemental Information Required for Works or Other Activities Involving a Water Management System (Other Than a Single Family Project)
<u>62-330.060(1) Sec. F</u>	Section F: Application For Authorization to Use State-Owned Submerged Lands
<u>62-330.060(1) Sec. G</u>	Section G: Supplemental Information Required for Mitigation Banks

Table 6-2 ERP Application Form Sections

Application Fees

Each WMD has separate fee schedules that can be accessed through their permitting website. Payment of fees is required for the ERP application to be deemed complete. A state ERP application can be submitted without including permit fees. However, payment of permit application fees will be required prior to permit issuance. Payment receipts can be generated through the permit application portal, or a request can be made through the permit reviewer. The Design Scope of Service should provide direction as to whether FDOT or the Design Firm will make the payment. Every FDOT District should coordinate internally an effective application fee payment plan. Contact the District Procurement Office if questions arise.

6.6.1.1 ERP Section A: State-Owned Submerged Lands/Federal Dredge and Fill Permit: General Information

Section "A" is required for all Individual, General, and Conceptual applications, where the applicant provides the basic project information including Section, Township, and Range; applicant and agent contact information; permit history; coordination to date; and type of permit being requested. Part 4 of Section "A" requires the signature of the applicant or applicant's authorized agent. This portion must be signed by the Department, usually the EPC. The consultant assisting FDOT with the permit application package may sign as the Applicant's Authorized Agent.

6.6.1.2 Section C: Wetlands and Other Surface Waters

Section "C" provides the environmental data required to process the application and is typically filled out by an Environmental Scientist and the Drainage Engineer. The Drainage Engineer will need to provide the information to document the Stormwater Management System and other engineering aspects of the project. Types of information requested in this Section pertains to activities in, on, or over wetlands and other surface waters. This can be provided directly in the Section "C" form, or separately as part of an environmental report or Natural Resources Evaluation (NRE). For FDOT projects, the size of the project area and scale of effects typically require an NRE or tech memo to be included with the application package.

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HELPFUL HINTS: When presenting the environmental data in a report or NRE, it is helpful to the WMD reviewer to categorize each section with a reference to the Applicant Handbook. In addition, it is recommended that the Section "C" form clearly references which section of the attached environmental report contains the requested information (i.e., "Please refer to Section X.0 – Wetland Impacts in the attached Environmental Report").

The PD&E Study or NRE will have environmental information that can be used as part of the narrative to describe the project, the conditions at the project site, proposed impacts, and mitigation. The document should be divided into sections to provide the reviewer with all the pertinent details about the project site, including:

- the various land uses and community types;
- an assessment of the wetlands and aquatic habitat;
- listed species and wildlife information (including effects determinations for listed species);
- details on proposed impacts to wetlands and other surface waters;
- avoidance and minimization techniques;
- wetland functional assessments; and,
- proposed mitigation measures.

Avoidance and Minimization

Avoidance and minimization are key elements to the permit application and are documented in the PD&E Study or NRE and referenced in the permit application. See <u>Section 5.2</u> for more details on reduction and elimination measures for the state permitting process.

State Rules on Direct Impacts

Part I of Section "C" requests that the applicant document the direct impacts associated with the project. Direct impacts typically refer to the placement of fill or the removal or soil (dredge) within a wetland or other surface water. However, all activities in, on, or over wetlands or other surface waters must be quantified and evaluated in relation to the reduction of the functional value of the wetland.

Direct impacts are defined as those impacts where wetland function is being lost, either completely or partially, because of the proposed project. Examples of direct impacts for FDOT projects include the placement of fill for a roadway and the associated side slopes; the creation of stormwater management ponds; drainage features such as outfall structures; or safety components such as guard rails, signs, and lighting.

The Project Wetland (WI) and Other Surface Water (SW) and Impact Summary (Impact Summary Table) within Part 3 is to be filled out to document the proposed direct wetland and surface water impacts calculated along the corridor, as depicted on the Permit Sketches (dredge and fill). Unavoidable direct impacts require mitigation (ERP Tables 2 & 3) as described later in this section.

State Rules on Indirect Impacts

Secondary Impacts refer to those wetland areas that are not directly impacted via dredging or filling but will still lose functional value due to the activity occurring adjacent to them. Examples of secondary impacts to be considered include light and noise penetration, the increase in trash, and the elimination of an upland buffer. If the project cannot provide an upland buffer between the limits of construction and adjacent natural wetlands, secondary impacts are assessed.

As per the Applicant's Handbook, secondary impacts to the habitat functions of wetlands, associated with adjacent upland activities, will not be considered adverse if buffers, with a minimum width of 15 ft. and an average width of 25 ft., are provided abutting those wetlands that will remain under the permitted design. Secondary Impacts are reviewed under State of Florida rules under a four-part criterion (see <u>Applicant's</u> <u>Handbook I, Section 10.2.7</u>):

- Secondary impacts from construction will not cause or contribute to violations of water quality standards or adverse impacts to the functions of wetlands or other surface waters.
- 2. Project will provide reasonable assurance that the proposed activity will not impact the ecological value of uplands for bald eagles and wetland dependent listed animal species, including areas needed for foraging or wildlife corridors.
- 3. The Agency will consider any other associated activities that are very closely linked and causally related to any proposed dredging <u>or</u> filling that have the potential to cause impacts to significant historical and archaeological resources.
- 4. An applicant shall provide reasonable assurance that the following future activities will not result in water quality violations or adverse impacts to the functions of wetlands or other surface waters; additional phases or expansion of the proposed activity; other onsite or offsite activities that are closely linked to the proposed activity.

If the project cannot demonstrate that proper buffers can be implemented (a minimum width of 15' and an average width of 25'), the state reviewer may assess additional impacts. Part 2 of the Uniform Mitigation Assessment Method (UMAM) assessment provides opportunities to assess a diminished function associated with a reduced upland buffer.

If listed or protected species are present or may be present, then additional coordination may be required with wildlife agencies. Any correspondence with the USFWS or FWC during the PD&E phase, consultation process, or any previous project phases should be provided.



HELPFUL HINTS: Drainage features and ponds are not typically considered subject to secondary impacts, if the engineer demonstrates that these features are not causing a tail water effect and drawing down the preexisting hydroperiod of adjacent wetland systems. This determination is typically left to the discretion of the WMD reviewer. However, providing examples to the WMD reviewer of previous similarly design/permitted projects that were not assessed for secondary impacts can be beneficial in making this determination.

State Rules on Cumulative Impacts

Cumulative impacts assess the project's impacts to the basin (watershed) in which the project occurs, in conjunction with past, present, and future activities, to determine if the basin may be impacted beyond a sustainable level.

Each WMD has regulatory drainage basins defined for cumulative impact analysis. These basins are illustrated in 10.2.8 of Volume 1 of the Applicants Handbook. For a project to provide reasonable assurances that wetland impacts will not cause unacceptable cumulative impacts, the wetland mitigation must be provided within the same regulatory drainage basin.

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HELPFUL HINTS: GIS data is available for each WMD regulatory drainage basin, and for available mitigation banks. These databases are typically available on the GIS data resources section of each WMD website (see Wetland Mitigation Appendix.

If there are no available mitigation options within the same regulatory drainage basin, the applicant should consult directly with the FDEP and/or WMD reviewers to ascertain if they will accept mitigation credits from a mitigation bank in a neighboring basin, or other regional mitigation opportunities. This process should be led by the EPC. A Cumulative Impact Evaluation in accordance with Section 10.2.8, Volume 1 of the Applicants Handbook may be required to justify mitigating for project impacts outside of the project mitigation basin.

Wetland Functional Assessment

Wetlands proposed to be impacted should have a functional assessment conducted to calculate the functional loss. Several assessment types exist (WATER, WRAP, M-WRAP, etc.); however, FDOT uses the Uniform Mitigation Assessment Method (UMAM). This assessment will include two parts, a qualitative and quantitative analysis, and should assume that the area will be directly impacted by a dredge or fill activity.

Part 1 - Qualitative Characterization (62-345.400, F.A.C.) must address the following applicable information:

- Special water classifications, such as Outstanding Florida Water (OFW), Aquatic Preserve, Class II water approved, restricted, conditionally approved, conditionally restricted for shellfish harvesting, or an Area of Critical State Concern;
- Significant nearby features that might affect the values of the functions provided by the assessment area;
- Assessment area size;
- Geographic relationship and hydrologic connection between the assessment area and any contiguous wetland or other surface waters, or uplands as applicable;
- Classification of assessment area, including description of past alterations that affect the classification;
- Uniqueness of the assessment area in relation to the surrounding regional landscape;
- Functions performed by the assessment area;
- Anticipated wildlife utilization, type of use and applicable listing classifications (threatened, endangered, species of special concern);

- Whether any portion of the assessment area has been previously used as mitigation for a prior issued permit; and
- Any additional information that is needed to accurately characterize the ecological values of the assessment area and functions provided.

Part 2 – Assessment and Scoring (62-345.500, F.A.C.) determines the degree to which the assessment area provides the functions identified in Part 1 and the amount of function lost or gained by the project. Each impact and mitigation assessment area must be assessed under two conditions:

- Current condition, or in the case of preservation mitigation, without preservation; and,
- "With mitigation" or "with impact".

UMAM rules can be found under Chapter 62-345 of the <u>Florida Administrative Code</u> (F.A.C.) and Florida Administrative Register (FAR) Website.

When the limits of direct and secondary impacts are defined, the UMAM impact assessment can be completed and submitted with the permit application. By rule, state agency review staff make the final determination on the appropriate UMAM scores, though it is important to provide the scores calculated by the applicant in the permit package.

Once functional losses have been established for each wetland system, it is recommended that a table be created that separates impacts by basin, as well as by habitat type (forested vs herbaceous). The total functional loss as calculated in the UMAM assessment will be the amount of mitigation (by type) that is required to offset the project impacts.

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HELPFUL HINTS: UMAM scores should be reviewed and approved by the District Permits Coordinator or Environmental Management Office prior to being submitted to regulatory staff.

Mitigation Plan

Once all practicable measures to avoid and minimize impacts have been incorporated into the design, the mitigation required to provide an equivalent functional gain to offset the losses to wetlands is determined. The applicant must provide a mitigation plan which identifies the type and amount of mitigation being proposed. The mitigation proposed should be similar to those being impacted, often referred to as, "like for like" (e.g., forested wetland impacts should be offset with forested bank credits). A UMAM wetland assessment that quantified the functional loss will be used to identify the impact mitigation type and number of credits required for replacing the project impacts. Note that functional assessment methodologies may vary between mitigation banks; however, FDOT requires participating mitigation banks to provide methodology to quantify and address those differences in wetland assessments. State permit requirements are generally satisfied with the purchase of mitigation bank credits or participation in FDOT's Mitigation program. If a mitigation bank credit purchase is proposed, FDOT must confirm which bank(s) have service areas that encompass the project area and that offer the required wetland type. FDOT must request a "Letter of Reservation" from the bank that confirms FDOT's commitment to purchasing the mitigation credits. FDOT will provide the reservation letter to the permitting agency. The Mitigation Bank will need the permit application number for the letter. Once the permit is issued, FDOT or the mitigation bank will work with the permitting agency to deduct the mitigation credit purchase from the Mitigation Bank's Credit Ledger. FDOT will be responsible for completing the contract with the Mitigation Bank for purchasing of the reserved credits. Typically, permits include a specific condition requiring that credits be purchased either before the project construction starts or when wetland impacts begin. To learn more about Mitigation go to <u>Section 5.6</u>.

Guide to Mitigation Steps

- Identify mitigation need
- Determine functional loss/credits required
- Receive State confirmation on functional loss/credits required
- Determine suitable Mitigation Bank(s)
- If more than one Bank, go out to bid for mitigation credits
- If no Bank is available, determine whether participation in State's FDOT Mitigation Plan is available
- Award contract and obtain Reservation Letter
- Track permitting status
- Pay mitigation bank
- Track permit issuance
- Coordinate with State to confirm credit ledger deduction

HELPFUL HINTS: During early design coordination (after the wetlands are flagged), it is important to coordinate with FDOT's Permits Coordinator on the estimated amount, type, and functional loss so that proper mitigation planning can occur.

Compensation for impacts to listed species and critical habitat may also be required by state and federal commenting agencies. Please refer to <u>Section 5.7</u> for additional guidance on species mitigation.

Water Quality

The applicant must demonstrate how water quality will be maintained in wetlands and other surface waters that will be preserved or will remain undisturbed, both onsite and offsite. For FDOT projects, the erosion control that accompanies the roadway plans typically satisfies these criteria. The Erosion Control Plan is an important tool and document that helps provide assurances to the permitting agencies that adjacent wetlands will be protected during construction activities. The Erosion Control Plan is also referred to as a Stormwater Runoff Control Concept (SRCC) if the project requires a National Pollutant Discharge Elimination System (NPDES) permit (see <u>Section 6.6.5</u>).

Valuable input to the Erosion Control Plan includes what type of erosion control measures (i.e., sediment barrier, staked turbidity barrier, floating turbidity barrier) should be utilized, based on the topography, and projected hydroperiod and groundwater levels associated with each type of ecological system. Stream and lake swamps, marshes, and cypress-dominated areas indicate long periods of inundation, while wet prairie, hydric flatwood, and some wetland hardwoods may indicate much shorter inundations. Seasonal high-water level elevations and physical evidence such as rack lines and soil deposition areas should also indicate whether adjacent wetland systems are "flashy" (i.e., subject to rapid water-level rises) and may require additional means of protection to reduce water velocity.



HELPFUL HINTS: It is important that an environmental scientist, or a FDEP certified Storm Erosion and Sedimentation Control Inspector, review the Erosion Control Plan/SWPPP to ensure that the proposed erosion control options are appropriate based on the type of systems identified along the corridor.

If the proposed project is located within a water body in which maintaining water quality standards will be difficult because of topography or water movement, the applicant may request a temporary mixing zone pursuant to 10.2.4.4 of the Volume 1 of the Applicants Handbook. Mixing zone approval is at the discretion of the WMD, and largely depends on the presence and proximity of adjacent resources.

In addition, if the proposed project impacts a water body with a <u>Total Maximum Daily</u> <u>Load (TMDL), identified as an impaired water body, or has a Basin Management Action</u> <u>Plan</u>, further analysis will be needed to avoid aggravating or conflicting with regulatory standards. Section 303(d) of the Clean Water Act requires states to submit to EPA lists of waters that do not meet applicable water quality standards, to identify pollutant(s) that are causing or are expected to cause impairment, and to establish and implement plans to address these pollutants on a prioritized schedule. Florida is delegated responsibility for complying with the CWA, and the State codifies its water quality rules in Chapter 62-303 of the FAC. The <u>Florida Impaired Waters Rule (IWR)</u> establishes a methodology to identify those waters that will be included on the State's "Section 303(d) list" of impaired waters that is required to be reported to EPA. The EPA has established its own pollutant limits, separate from FDEP's, for many Florida waterways, and these federal TMDLs are enforced via compliance with stormwater permits.

The most recent information on impairment status can be found in the Verified, Delist, and Study lists that may be <u>downloaded from the FDEP website</u>.

To review download the list of "Waters Not Attaining Standards", either as a shapefile or a data table, from the **FDEP Open Data website**.

Before responsibility for assessment of Florida waterbodies was transferred to FDEP by EPA, the EPA developed a number of TMDL documents for Florida waterbodies. Those TMDLs that have not been superseded by FDEP TMDLs and are still in effect.

Generally, if a water is identified as impaired, has a TMDL, or Basin Management Action Plan more stringent limits will be required to prevent aggravating the issue. FDEP or WMD typically require additional pollution and construction measures/BMPs, structures, and water treatment as part of the stormwater management system.

Public Interest Criteria

As part of the permit review process, an applicant must demonstrate that a project is not contrary to the public interest, per the Public Interest Test (refer to <u>Applicant's Handbook</u> <u>1, Section 10.2.3</u>):

- a) Whether the regulated activity will adversely affect the public health, safety, or welfare or the property of others;
- b) Whether the regulated activity will adversely affect the conservation of fish and wildlife, including endangered or threatened species, or their habitats;
- c) Whether the regulated activity will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
- d) Whether the regulated activity will adversely affect the fishing or recreational values or marine productivity in the vicinity of the activity;
- e) Whether the regulated activity will be of a temporary or permanent nature;
- f) Whether the regulated activity will adversely affect or will enhance significant historical and archaeological resources; and
- g) Whether the project will be designed to avoid adverse effects to the current condition and relative value of functions being performed by areas affected by the proposed regulated activity.



HELPFUL HINTS: Due to the level of scrutiny associated with the NEPA analysis approval, a project subject to these evaluations during a PD&E Study, or other study, will not have much difficulty demonstrating that it is in the public interest. The primary component of the NEPA study is the alternatives analysis, which considers the effects of each alternative to both natural (wetlands, listed species) and cultural environment (historical and archaeological). This analysis goes beyond what is required for the state Public Interest Test and typically can be provided if requested by the agency.

Outstanding Florida Waters

FDEP has designated certain Florida water bodies as OFWs through their Environmental Regulatory Commission, in accordance with <u>Section 403.061(2)</u>, Florida Statutes (F.S.). Water bodies that receive this designation are afforded additional protection measures

by mandating that discharges to OFWs must not exceed ambient water quality conditions. In addition to this mandate, projects that propose discharges within an OFW must also <u>be clearly</u> in the Public Interest [373.414(1)(a), F.S.].

6.6.1.3 Section D: Supplemental Information for Works or Activities Within Surface Waters

Section "D" is required for bridge projects that may cause a disruption or restriction of flow within surface waters.

6.6.1.4 Section E: Supplemental Information Required for Works or Other Activities Involving a Water Management System

Section "E" provides the required stormwater management system information and is typically filled out by the drainage engineer who will be responsible for the signing and sealing of the drainage portion of the roadway plan set. Section "E" typically references sections of the drainage reports that will accompany the application.

6.6.1.5 Section F: Application for Authorization to Use State-Owned Submerged Lands

Section "F" is used for FDOT projects that propose activities on Sovereign Submerged Lands (refer to <u>Section 4.7.1</u> for additional information).

6.6.1.6 Section G: Supplemental Information Required for Mitigation Banks

Section "G" is used for FDOT projects which require a mitigation bank permit or a mitigation bank conceptual approval in accordance with Chapter 62-342, F.A.C. Information provided in this section includes, but is not limited to, the following:

- Location of the proposed mitigation bank;
- Ecological significance of the proposed mitigation bank to the regional watershed in which it is located;
- Current site conditions;
- Mitigation plan;
- Assessment of improvements in ecological value;
- Evidence of sufficient legal or equitable interest in the property;
- Draft documentation of financial responsibility; and,
- Land use restrictions.

Refer to <u>Section 5.6.1.1</u> for more detail regarding mitigation banks.

State Permit Issuance Timeframes

The state permitting process is tied to statutory deadlines for permit issuance, though this deadline can be formally waived by the applicant. The duration of the state permitting process depends on the complexity of the construction and the environmental sensitivity

of the project area, unless the project qualifies for a general permit, which takes approximately 30 days. Section 373.4141, F.S., provides the WMD, or FDEP, 30 days to request additional information on an application or in any subsequent submittal within 30 days after receipt of an application for permit or receipt of additional information. An application is considered complete by a regulatory agency when the applicant has provided sufficient information for the regulatory agency to make a final agency action. A permit is issued or denied within 60 days after the application has been deemed complete.

Environmental Resource Permit Documentation

The material to be provided in the ERP permit application includes the proposed project work activities, and the project-specific details so that the application reviewer can ensure the project meets the regulatory criteria for a permit. The reviewer will be assessing the application to weigh whether the proposed project activity will - cause adverse flooding to on-site or off-site property; cause adverse water quality and quantity impacts; cause adverse impacts to wetlands, fish, or wildlife; adversely affect public health, safety, and welfare; impair navigation or surface water flows; adversely affect nearby fishing or recreational uses. The application supporting materials will differ depending on the scope and impacts of the project, but typically include:

- project location map;
- aerial maps;
- an existing conditions sheet showing the entire project and wetland/other surface water boundaries;
- a proposed conditions sheet showing the entire project and wetland/other surface water boundaries with construction plan overlay;
- signed and sealed engineering plans (preferably digital) and include wetland and surface water boundaries
- drainage calculations or drainage report;
- permit sketches;
- Water Quality information or report;
- if listed species are present, provide correspondence with the USFWS or FWC;
- propose Wetland Impact Sheet;
- if mitigation is required, a mitigation plan with supporting functional assessment sheets; and
- environmental report with supporting field survey information.

The application forms must be signed by someone with the authority to sign on behalf of the District, typically the EPC.

6.6.2 Federal Section 404 / Dredge and Fill Permit

Section 404 / Dredge and Fill Permitting

A permit is required for dredge and fill activities including any activity in, on, or over wetlands or waters of the United States (WOTUS). The USACE requires use of <u>Engineering</u> <u>Form 4345 (Form ENG 4345 – Individual Permit Application Form)</u> for the application. This form has the basic applicant and project information. Note that the form needs to be downloaded then opened in Adobe using editing mode.

The USACE Regulatory Program has an online application portal and management platform called the Regulatory Request System (RRS). RRS allows users to apply for individual and general permits using online forms and is available at <u>https://rrs.usace.army.mil/rrs</u>. It is recommended to send an email to the general USACE email address (<u>CorpsJaxReg-FDOT@usace.army.mil</u>) and regional USACE ETAT representative.



HELPFUL HINTS: The USACE requires the permit application to include typed mailing labels for projects with more than ten adjacent property owners.

Avoidance and Minimization

Avoidance and minimization are key elements to the Section 404 permit application and are documented in the environmental report attached to the application. See <u>Section</u> <u>5.2</u> for more details relating to avoidance and minimization measures for the permitting process.

Rules on Direct and Indirect Impacts

Refer to <u>Section 6.6.1.2</u> for a description of direct impact analysis as the state and federal agencies follow a similar process.

Secondary impacts (also referred to as indirect effects) are effects on an aquatic ecosystem that are associated with a dredge or fill activity, but do not result from the actual placement of the dredged or fill material. Information about secondary effects on aquatic ecosystems shall be considered and documented during the application process. Some examples of secondary effects on an aquatic ecosystem are fluctuating water levels in an impoundment and downstream associated with the operation of a dam, septic tank leaching and surface runoff from development, and growth induced by improved access. Activities to be conducted on uplands created by fill activities in wetlands or other surface waters may have secondary impacts within those waters which should be considered in evaluating the impact of creating those uplands.

Impacts for indirect and secondary affects are assessed to distances that range from 25-300 feet, depending on the type of project and the extent of the direct impacts. Agency coordination should also be conducted to determine the appropriate distance. Most roadway projects (with the exception of new corridors) will have secondary impacts calculated at 75-100 feet from the limits of construction. Some examples of secondary impacts include:

- 1. Increased establishment of nuisance/exotic plant species adjacent to the new/widened road;
- 2. Increased wildlife mortality;
- 3. Effects of noise on animals using remaining wetlands adjacent to the road;
- 4. Effects of new lighting on animals using remaining wetlands adjacent to the road
- 5. Impacts to sanctuaries and refuges;
- 6. Create unplanned, easy, and incompatible human access to remote aquatic areas; and
- 7. Create the need for frequent maintenance activity.

Secondary/indirect impacts must be considered in the development of the project's overall mitigation plan to offset all unavoidable wetland impacts. For more information regarding the federal rules on indirect impacts, please refer to <u>40 CFR §§1500-1508</u>.

Rules on Cumulative Impacts

The 404(b)(1) Guidelines, 40 CFR 230.1(c), require an analysis of the cumulative effects of each discharge of dredged or fill material on the aquatic ecosystem, in light of the cumulative impacts of known or probable impacts of other activities on that ecosystem. The Section 404(b)(1) Guidelines describe the factual finding that must be made with respect to cumulative effects as follows:

Cumulative impacts are the changes in an aquatic ecosystem that are attributable to the collective effect of a number of individual discharges of dredged or fill material. Although the impact of a particular discharge may constitute a minor change in itself, the cumulative effect of numerous such piecemeal changes can result in a major impairment of the water resources and interfere with the productivity and water quality of existing aquatic ecosystems. The CWA does not limit analysis of cumulative effects to the resources within the impacted drainage basin. However, the drainage basin is a good starting point for review and will often be found to be the appropriate scale. Some projects will require cumulative effects reviewed on a larger or smaller scale depending on the size, project purpose, and resources proposed for impact. The USGS has established Hydrologic Unit Codes for all drainage basins in the United States. Hydrologic Unit Code codes are available from the USGS <u>National Hydrography Dataset (NHD)</u> website. For a project to provide reasonable assurances that wetland impacts will not cause unacceptable cumulative impacts, the mitigation must be provided within the same Hydrologic Unit Code basin.

HELPFUL HINTS: GIS data is available for each Hydrologic Unit Code basin, and for available mitigation banks.

A cumulative impacts evaluation may be requested if the mitigation proposed does not occur within the impacted Hydrologic Unit Code basin. This involves an analysis of past, present, and future wetland impacts to the Hydrologic Unit Code basin, to determine if the project has a significant negative effect that will not be replaced by providing mitigation in an alternate basin. See <u>Section 6.6.1</u>.

Wetland Functional Assessment

Refer to <u>Section 5.3.1</u> for discussion on the Uniform Mitigation Assessment Method (UMAM).

Mitigation Plan

Compensatory mitigation for Section 404 permits shall be conducted in accordance with 2008 Mitigation Rule (<u>Compensatory Mitigation for Losses of Aquatic Resources</u>). There is a compensatory mitigation hierarchy, giving preference first to mitigation provided by mitigation banks, then in-lieu fee credits, then permittee-responsible mitigation based upon a watershed approach, on-site or in-kind permittee-responsible mitigation, and finally off-site or out-of-kind permittee-responsible mitigation (see **Wetland Mitigation Appendix**). Compensatory mitigation may include creation, enhancement or restoration of wetlands and their functions or, in some cases, may include preservation of wetlands and associated upland buffers.

Compensation for impacts to listed species may also be required by state and federal commenting agencies. Please refer to <u>Section 5.7</u> for additional guidance on listed species mitigation.

Water Quality

Refer to <u>Section 6.6.1.2</u> for more detail regarding what is expected for the Section 404 Permit.

Public Interest Criteria

Refer to <u>Section 6.6.1.2</u> for more detail regarding what is expected for the Section 404 Permit.

Outstanding Florida Waters (OFWs)

Refer to <u>Section 6.6.1.2</u> for more detail regarding what is expected for the Section 404 Permit.

6.6.3 Navigation Permitting Process (Section 9 of the Rivers and Harbors Act) – United States Coast Guard Bridge Permit

FDOT projects that are within 100 feet of a USACE maintained Federal Channel [e.g., the Intracoastal Waterway (ICW)] require additional coordination, in accordance with the <u>Setback Guidance for Structures Along Certain Federal Channels</u>. In addition to the normal permitting process described above, the USACE must coordinate with the Construction Operations Section in Jacksonville.

The Construction Operations Section in Jacksonville is responsible for ensuring that all permit applications within a 100-foot distance of the federally maintained channel are reviewed for any potential conflicts with the maintenance of the channel. The Construction Operations Section in Jacksonville may also send Requests for Additional Information (RAIs) to resolve any issues and ensure a complete application. Once all information is received and the application is acceptable, a Consent-to-Use document is issued.

6.6.3.1 Determine Navigation

The primary criterion for determining USCG jurisdiction is navigation. It may be obvious that the waterway is navigable, and if so, this step is complete after contact has been initiated with the USCG to confirm this determination. Coordination with the USCG through the ETDM process, and then the PD&E Study, will determine whether the project crosses a navigable water. For projects in District 3, the New Orleans USCG does not use ETDM to determine navigability. Instead, the District must fill out a USCG Bridge Project Questionnaire (BPQ) that requests specific data on the navigation of the waterway so that they can determine whether a Bridge Permit is required. Conclusions regarding navigability are documented in the PD&E Study.

In special cases where navigability is questionable or there is no PD&E Study, the Coast Guard may request a Navigation Impact Report (e.g., data analysis study of bridge horizontal and vertical clearance factors such as site surveys, waterway user survey, bridge tender logs, public meetings, and regional planning interests), which is a tool which the Coast Guard District Bridge Office uses to analyze the navigational impacts of the bridge design alternatives and the prospective needs of navigation on a waterway. The USCG uses the data in the Navigation Impact Report to make a preliminary navigation determination, which can be used to determine if a Bridge Permit is required.

The information needed to complete the report includes navigation data on the subject waterway, as well as information on the types of vessels using the waterway, clearances, information on obstructions, and information on properties adjacent to the bridge and waterway in the project location.

HELPFUL HINTS: A major issue for new bridges or bridge replacement is horizontal and vertical clearance. The clearance of the bridge determines the size of boats that can be used in the waterways. A Navigation Impact Report is prepared for USCG to provide the most accurate picture of current and prospective navigation on a waterway.

Ultimately, the decision made by the Coast Guard will determine if the water body is navigable, and if the project will require a bridge permit. See **Navigation Impact Report** requirements list in Bridge Permit Application Guide, Appendix A: Waterway Data Requirements.

6.6.3.2 Permitting Process

The only permit type issued by the USCG is a bridge permit. A bridge permit is the written approval of the location and plans of the bridge or causeway to be constructed (or modified) across a navigable waterway of the United States.

The <u>Bridge Permit Application Guide</u> (COMDTPUB P16591.3D, July 2016) provides the steps to walk the applicant through the completion of the application package.

Project Initiation (During FDOT's Design Phase)

During FDOT's Design phase, early coordination with the USCG should be initiated when the project has advanced to a point where a preliminary design is available to consider, 30% plan completion. This would entail the applicant contacting the USCG District Bridge Office to discuss the proposed bridge project to provide a status and discuss any changes to the design that may have occurred since PD&E. The Bridge Project Initiation Request template (from the **Bridge Permit Application Guide**) can be used to start this process.

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HELPFUL HINTS: Schedule a pre-app meeting when the design plans reach 30% completion. There should be sufficient information to discuss the project and determine navigation issues and to also discuss any design changes that have occurred since the PD&E Study (example: changing the clearance on a bridge).

Determining the Lead Federal Action Agency During Permitting

Pursuant to 23 United States Code (U.S.C.) 327, the Florida Department of Transportation (FDOT) has assumed Federal Highway Administration's (FHWA's) responsibilities under the National Environmental Policy Act (NEPA) for highway projects on the State Highway System (SHS) and Local Agency Program (LAP) projects off the SHS. FDOT's assumption includes all highway and roadway projects in Florida whose source of federal funding comes from FHWA or which constitute a federal action through FHWA. This includes responsibilities for environmental review, interagency consultation and other regulatory compliance-related actions pertaining to the review or approval of NEPA projects. Therefore, whereas FHWA was previously identified as the Lead Federal Agency, this function is now served by FDOT with approval authority resting in the Office of

Environmental Management (OEM). The USACE or USCG may adopt and/or incorporate FDOT's NEPA analysis and decisions during the federal permitting process.

If a federal or state project involves bridge work over navigable waters of the United States, the USCG will be the lead federal permitting agency. The USACE will take the lead if the project involves dredge and fill in Waters of the United States in accordance with Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act of 1899. If the project scope falls under the jurisdiction of both the USACE and USCG, the two agencies will determine which will serve as the lead permitting agency. This decision is often made based on which agency has jurisdiction over the majority of the project scope.

The lead federal permitting agency has the option to adopt the NEPA document from the PD&E phase as their own rather than preparing a separate one. If the project is state funded, the lead federal permitting agency (USCG if a bridge permit is required) can use the State Environmental Impact Report (SEIR) as the basis to prepare the NEPA document required for the bridge permit. Regardless of whether the lead federal permitting agency prepares their own NEPA document or not, FDOT should coordinate with the appropriate agency throughout project development to ensure a smooth permitting process.

Once a decision has been made that the project will require a USCG Bridge Permit, the assembly of the bridge permit application package may commence. A decision also must be made if a USACE permit will be required in conjunction with the bridge permit, so that a separate application can be prepared for review by the USACE.

This is a common occurrence, as many bridge projects will also require authorization from USACE for dredge and fill activities for either temporary construction methods (cofferdams, temporary fills) which can be granted under a Nationwide 15 Permit for USCG Approved Bridges; under a Nationwide 18 Permit for Minor Fill (less than 0.5 acres); or under a separate Standard Permit to address approach fills or causeway fills. The lead federal action agency will conduct the necessary consultation with the appropriate federal agency.

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HELPFUL HINTS: In 2016 FDOT assumed NEPA responsibilities from Federal Highway Administration (FHWA). FDOT serves as the lead federal agency for projects where FHWA is the source of federal funding, or which constitute a federal action through FHWA.

Assembling the Application Package

The information required for a bridge permit application includes three main sections: the application package, environmental documentation, and plans. These materials should be submitted to the USCG District Bridge Office that has jurisdiction over the area of the proposed bridge site. See <u>Section 6.6.3.3</u> for contact information.

Environmental Documentation

The application must include the appropriate environmental documentation to demonstrate that the project is in compliance with other applicable federal regulations

(i.e., Section 106, Section 7, and/or Section 10). The **<u>Bridge Permit Application Guide</u>** provides checklists for interagency coordination.

Projects that are part of a larger study, such as a PD&E, should have already addressed all or most of these questions. The application should include all relevant information collected during the study. Additional information (if any) from after the approval of the study should be provided as well. Previous project correspondence and approvals should be provided in the application package.

Should a significant period elapse from the completion of the Environmental Document (NEPA document or SEIR) to the permitting process, updated studies and correspondence should be provided in the application documenting the project is still in compliance with NEPA.

Engineering Plans

The application package must also contain the detailed engineering plans, which will become part of the issued permit (or permit amendment for bridge modifications). The plan sheets (in standard 8 $\frac{1}{2}$ X 11" size) must be included for review and approval, containing the following information:

- Dimensions and distances in U.S. linear feet in decimal form (versus feet and inches).
- The datum used in plan and elevation view (North American Vertical Datum of 1988, National Geodetic Vertical Datum of 1929).
- Date, signature, and stamp of a professional engineer (if desired, note that it is acceptable for the engineer to add the following statement to the plans, "Conceptual Plans utilized to obtain Coast Guard Bridge Permit").
- All title blocks should contain the name of the applicant/owner, consultant/agent, name of bridge, name of waterway, mile point of bridge location in statute miles, city, county/parish, and state, date of plans, sheet number and total number of sheets in plan set.
- A location map/vicinity map showing the graphic scale and north arrow, location
 of bridge on waterway, name of waterway, course of waterway, any structures
 immediately adjacent to the proposed bridge, any wildlife or waterfowl refuges
 and any historical/archaeological sites, and an inset of the state in which the
 project is located with an arrow indicating the location of the project.
- A plan view sheet(s) showing the graphic bar scale and north arrow, identifying the adjacent property owners at the four corners of the proposed structure, showing the existing shorelines, the ebb and flood in tidal waters and direction of flow in non-tidal waters, mean high- and low-water lines in tidal areas or ordinary highwater and ordinary low-water elevations in non-tidal waterways, all portions of existing bridge that will remain in place, all portions of existing bridge that will be removed by using dashed lines, principal dimensions of structure from grade to grade (length, width, etc.), the location of dredging, excavation, fill, or rip-rap

including the number of cubic yards, the location of any bridge protective systems, piles, cables, etc. existing or to be constructed in the waterway, the limits of the navigational channel, the axis (centerline) of the channel, the horizontal clearances, normal to the axis (centerline) of the channel between the bridge protective system, pilings, or abutments, the water depth at mean low (or ordinary low if non-tidal) at various locations in the channel, under, upstream, and downstream of the bridge.

- An elevation view sheet(s) showing the graphic bar scale and north arrow, the mean high- and mean low-water elevations in tidal areas (or ordinary high- and low-water elevations in non-tidal areas), the amount of fill material in cubic yards below MHW, the horizontal clearance normal to the axis (centerline) of the channel between the bridge protective fender system, pilings, or abutments as appropriate for navigation channel, the vertical clearances referenced to the appropriate high-water stage either MHW or Ordinary High-Water, the vertical clearances at the center, as well as the horizontal limits of the navigational channel (the most restrictive vertical clearance in the navigation channel), the proposed navigational envelope (opening), proposed and existing contour of the waterway bottom, the 100-year flood elevation, the location and elevation of the low steel member of the navigation span, and if the bridge will have a permanent traveler system installed for inspection/maintenance, the reduction in vertical clearance (traveler height below low steel) and the location of the traveler storage when not in use. (If the bridge will have a draw, show the draw in the open and closed positions.).
- A typical section view showing the graphic bar scale, the out-to-out width of the structure (the width of the bridge at its widest point), and the location and dimension of travel lanes, shoulders, sidewalks, fishing/pedestrian platforms, railings, pipelines, etc.
- A sheet showing the details of the bridge pier protection system in plan and elevation views including detail of attachment to pier, countersunk bolts, and relationship to mean high- and low-water lines (on elevation view).
- A sheet showing any temporary structures/falsework, with the minimum horizontal and vertical clearances during construction and any existing bridge to be removed using dashed lines.

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NOTE: The Bridge Lighting Plan is to be submitted as a separate application from the bridge permit application. Plan sheets depicting the bridge lighting <u>should not be included</u> in the bridge permit application plan set.

Application Review

Once the required permit application materials are submitted, the USCG District Bridge Office reviews the application and determines whether it is complete or if additional information/clarification documents need to be provided. They will then notify the applicant in writing (via letter or email) of additional items needed and when the application is determined to be complete. A project permit date will be included in the letter to the applicant once the application is deemed complete. Note that the application will be deemed complete when the required documents and certifications are received and are sufficient to make a permit decision.

The USCG issues coordination letters to other federal agencies (USFWS, NMFS, USACE) as determined by the nature of the proposed activity and resources potentially affected. Agency responses are considered during the permit processing.

Public Notice

The USCG District Bridge Office will issue a Public Notice (PN) for the project when sufficient information has been received. The application does not need to be complete in order to issue the Public Notice. The USCG District Bridge Office will respond to any navigation-related public comments and send all non-navigation related comments to the lead federal agency (if other than the USCG) and applicant/sponsor to address. After the comments are addressed and required consultations under all applicable environmental laws are completed, the permit decision can be made.

Permit Decision

The state and USACE permits must be issued prior to issuance of the USCG permit. In Florida, this includes having Water Quality Certification ("401 certification") issued, which is implemented by the State WMDs and the FDEP on behalf of the EPA. If the state agency with jurisdiction over the bridge project has not issued the state permit, which includes the Water Quality Certification, the USCG District Bridge Office cannot issue a permit.

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HELPFUL HINTS: Obtaining Water Quality Certification may be difficult, especially on bridges along the coasts. It is advisable to discuss these projects with the state regulatory agency very early in the process to avoid lengthy permit reviews on water quality.

The USCG District Bridge Office makes a permit recommendation, and if appropriate, issues the permit. If the project was deemed a "Headquarters Action" during review, the case file is sent to USCG Headquarters in Washington D.C. for a permit decision. It is rare for a project to be elevated in this manner, but this strategy can be used to resolve agency disagreements or address public controversy or other factors that have led to the project becoming high profile. The USCG District Bridge Office makes the ultimate decision to submit a project to USCG Headquarters for final agency action. The timeframe for this decision varies according to the project, and elevation to USCG Headquarters will occur whenever the USCG District Bridge Office deems appropriate.



HELPFUL HINTS: It is best to coordinate early and often with USCG District Bridge Office staff to determine the need for a Headquarters Action and schedule the appropriate time for obtaining the bridge permit.

Notice to Mariners

It is necessary to contact the USCG District Bridge Office prior to any bridge construction, so that the USCG can issue a "Notice to Mariners" for the bridge. Information regarding repairs that may affect navigation must be submitted at least 60 days prior to the beginning of construction. USCG District Offices issue "Notice to Mariners" as circumstances prescribe. These notices include information about changes or deficiencies in aids to navigation, deficiencies in bridge navigation lights, notices of work in progress in the waterway and cautionary information.

Written notices, called Local Notices to Mariners, are published weekly or as circumstances require. Broadcast notices are made when immediate dissemination of marine information is necessary for the safety of navigation. Notices to Mariners are broadcast over USCG radio stations. Broadcast notices are later documented by publication in Local Notices to Mariners when the original information is still valid.



HELPFUL HINTS: The Notice to Mariners is written during the construction phase by the USCG Operations Group, with the specific details dependent upon the Contractor's means and methods during construction.

Bridge Navigational Lighting

All bridges across waterways that support nighttime navigation are required to display navigational lights in accordance with 33 CFR Part 118. The approval of navigational lights and other required signals must be obtained prior to any construction from the USCG District Bridge Office. The USCG may exempt bridges over waterways with no significant nighttime navigation from the lighting or other signal requirements. Design plans for navigational lighting should be separate from the design plans for the bridge when submitting a USCG Bridge Permit application.

6.6.3.3 Coast Guard District Bridge Program Office Contacts

For Peninsular Florida, the Seventh Coast Guard District handles bridge permit applications. This office is located at the following address: 909 SE First Avenue (suite 432), Miami, Florida, 33130-3050. Contact phone number is (305) 415-6743.

For the Panhandle of Florida (west of the Apalachicola River), The Eighth Coast Guard District handles bridge permit applications. This office is in the Hale Boggs Federal Building at 501 Magazine Street, New Orleans, Louisiana, 70130-3396. Contact phone number is (504) 671-2127.

6.6.4 Right of Way and Jurisdictional Permits

In circumstances where FDOT proposes to impact the rights of way (ROW) of state, federal, and local agencies either permanently (i.e., addition of bridges and drainage

structures on, over, in canals and levees) or temporarily (i.e., temporary use of ROW or rerouting of water) permission will need to be obtained through a permit.

Water Management District Right of Way Occupancy Permit

Right of Way Occupancy Permits (ROW Permits) are revocable licenses issued to FDOT that allow for occupancy of a WMD's ROW for permanent or temporary improvements or activities. WMD's ROW typically include canals and levees; however, in some cases they include larger water bodies including the water conservation areas (WCAs) located east and south of Lake Okeechobee and many larger lakes located north of Lake Okeechobee.

ROW Permits protect the WMD's ability to maintain and operate regional flood control system and the environment while also allowing for essential facilities (e.g., bridges and utility crossings) and compatible recreational uses (e.g., trails, docks, and marinas). Applications for ROW Permits are required to include specific details about the proposed improvements or activity, complete construction plans, and, in most cases, an <u>application</u> <u>fee</u>. Applications are evaluated to determine compliance with the District's criteria for use of the ROW. In addition, the application is reviewed to ensure that the proposal does not adversely impact operations and maintenance of the regional flood control system, water quality, the environment, and WMD goals and objectives. If the WMD determines that a ROW Permit can be issued, application forms for this permit can be obtained from the WMD website. This type of permit is discussed in **ROW Occupancy Permit Appendix**.

Section 408 Review

Authorization for Section 408 is in Section 14 of the Rivers and Harbors Appropriation Act of 1899 (33 USC 408) and provides that USACE may grant permission for the alteration of a public work so long as that alteration is not injurious to the public interest (e.g., flood risk management, coastal storm damage reduction, navigation) and will not impair the benefits of the project. Part of its review includes National Environmental Policy Act (NEPA) compliance. If USACE is determined to be the lead agency, it will be responsible for the NEPA coordination required. In addition, USACE is responsible for creating a Review Plan that includes a technical review and final approval of permissions. The granting or denial of permission is not a permit action handled by the USACE Regulatory Program.

A large portion of the USACE's flood control system is managed by a local sponsor, the WMDs, who are charged with safeguarding these federal projects. If the canal or levee adjacent to the project is part of a canal system constructed by the USACE (such as the Central and South Florida Flood Control Project), it is likely that a WMD ROW Occupancy Permit and a Section 408 review will be needed. When an ROW Permit application is received by the WMD, it is reviewed to determine if a Section 408 review will be required. If a Section 408 review is required for the proposed work, the applicant will be advised of the information that will be required by the USACE to perform the review. Note that once the WMD application for a ROW Occupancy Permit is deemed complete, including submission of any information required for the USACE to perform the Section 408 review, the WMD will submit a copy of the application and supporting documents to the USACE. The ROW Permit and Section 408 Review typically requires 2-3 months to complete but

may take longer depending on the project. Work within the WMD's ROW may not begin until the Section 408 permission has been obtained and provided to FDOT, regardless of whether the actual WMD ROW Occupancy Permit has been issued. For questions about the Section 408 review process as it relates to the local sponsor, contact the regional WMD ROW Section. See **Section 408 Review and Permission Appendix**.

Local Water Control District

A Water Control District is a unit of local government created for a special purpose, as opposed to a general purpose, which has jurisdiction to operate within a limited geographic boundary. The Water Control Districts were created to reclaim lands by providing water control and supply for settlement and agriculture. Today, these local Water Control Districts continue to establish, construct, and maintain a system of canals, drains, ditches, levees, dikes, dams, revetments, locks, reservoirs, holding basins, floodways, pumping stations, and other works. Each seeks to facilitate economic development; control the effects of water, or lack of water, and manage water tables for the welfare of the public, agricultural and sanitary purposes. The Water Control Districts were organized and exist under Chapters 189 and 298, Florida Statutes (F.S.); however, the local Water Control Districts became known as "Chapter 298 Districts".

Section 335.02(4), F.S., provides that FDOT is not subject to local regulations on the State Highway System and therefore is not required to obtain local Water Control District permits. However, there are times when FDOT is working off-system or within the boundaries of a local Water Control District (i.e., ROW impact, bridge construction over local/secondary canal system) or impacting water conveyance and/or capacity. In these cases, coordination with the local Water Control District with jurisdiction in that area is required. Note that coordination, in some cases, may identify the need to go through the permitting process.

Typically, Local Water Control District permits are not required; however, FDOT staff should coordinate with the FDOT Office of General Counsel to receive project specific guidance for projects that may impact local Water Control District ROW or structures. See <u>PD&E</u> <u>Manual</u>, <u>Environmental Permits</u> and Water Control Districts Appendix.

County Permits

Typically, local permits are not required as Section 335.02(4), F.S., provides that FDOT is not subject to County regulations on the State Highway System and therefore is not required to obtain local permits. However, there are times when FDOT is working on County roads, properties, or structures which would require coordination and/or permitting. Types of activities that may require coordination include surface water management, natural resources impacts, mangrove trimming, and tree removal. In some cases, it is good practice to coordinate with the County early so that they are aware of the project activities and can address any questions. County staff are a good resource and can provide local knowledge and help avoid any planning inconsistencies. A pre-application meeting may provide an opportunity to assess the project. For specific questions, please consult with the FDOT Office of General Counsel to receive guidance. See **County Permits Appendices**.

6.6.5 National Pollutant Discharge Elimination System Permitting

The National Pollutant Discharge Elimination System (NPDES) Stormwater Program regulates point source discharges from sediment and other pollutants from construction activities. Operators of these sources may be required to obtain an NPDES permit before

they can discharge stormwater. The NPDES permitting process is handled by the project Contractor. A Stormwater Pollution Prevention Plan (SWPPP) must be developed and implemented to be in compliance with the permit. The EPC, or designated reviewer, should review the SWPPP during the Design Phase and provide comments to ensure it contains the appropriate information relating to erosion and sediment control. The NPDES permitting process consists of submitting a Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities [DEP Form 62-621.300(4)(b)] to FDEP prior to construction. This form is also known as a Notice of Intent (NOI) and can be submitted online through the FDEP Business Portal. The primary purpose of this NOI is to certify an agreement with the Generic Permit requirements and to notify FDEP where the official copy of the SWPPP is located. The SWPPP is a living document and will be updated by the Contractor with site-specific information during construction. More information regarding the NPDES permitting process can be found on FDEP's NPDES Stormwater Program Web Page. It is important to keep in mind that the permit required under FDEP's NPDES stormwater program is separate from the **Environmental Resource** Permit (ERP), a stormwater discharge permit required under Chapter 62-330, F.A.C., or any local government's stormwater discharge permit for construction activity.



HELPFUL HINTS: Only wetland and surface water protections need to be shown for NPDES permitting plan sets. Permit conditions can be included to require upland Erosion Control Plans prior to ground-breaking.

6.6.6 Special Use Permits

Section 10 Incidental Take Permit

Endangered Species Act (ESA) Section 10(a)(1)(b) permits for taking of endangered or threatened species incidental to, not the purpose of, an otherwise lawful activity. An Incidental Take Permit is typically required if no federal nexus exists for the project and listed species, or critical habitat may be present. In this case, consultation with the Service(s) may determine that Section 10 may apply. District staff should coordinate closely with Office of Environmental Management (OEM) if no apparent federal nexus exists to determine if Section 10 may be necessary, as these consultations are complex and can take an extended amount of time as compared to the Section 7 process. For larger transportation projects it can take as long as one year to complete an Incidental Take permit application and to develop an HCP.

A complete application for a Section 10 Incidental Take Permit includes the following: a standard application form (available from the Service); a Habitat Conservation Plan (HCP); an Implementation Agreement (if required); and a draft NEPA analysis. The HCP lays out a plan to minimize and mitigate the effects of the Incidental Take Permit authorization. HCPs range from simple to complex, depending upon the resources affected. The development of an HCP should occur in coordination with OEM to ensure that the plan adequately addresses the potential impacts to federally listed species and critical habitat. An Implementing Agreement is typically included with large, more

complex HCPs and represents a binding commitment between the permittee and USFWS/NMFS to assure that the permittee will implement the HCP as described. The Agreement includes all applicable permit conditions and obligations of the parties involved. Implementing Agreements are not typically utilized for low-effect HCPs. A Natural Resources Evaluation (NRE) is included with the application to address impacts to the natural environment and is coordinated through OEM.

6.7 Respond to Requests for Additional Information (Step 7)

Requests for Additional Information (RAI) is the format used by agencies to formally ask for information that is needed to consider an application complete but was not included in the application package provided. This is an important milestone as there is a specific time frame that most agencies must issue the RAI Information and for the applicant to respond. Generally, new information should not be requested from the agencies in subsequent RAIs, and agencies may be limited to two RAIs depending on the completeness of the responses. The best policy is to respond within a few weeks even if all the information is not available. It is easy to request additional time which is usually granted. Once all the required items are provided, reviewed, and accepted, the application is deemed complete.

For state permitting, an applicant may receive a RAI from the agency within 30 days of the receipt of permit application submittal. This RAI may request for clarification of submittal documents, as well as a request for additional technical information not included in the application submittal package. Each RAI question typically includes a reference to the specific rule criteria that mandate the specific requirement for permit issuance.

Additional RAIs, in accordance with Statute, should only ask questions to clarify the additional information or ask a question about newly submitted information (Section 373.4141, F.S.). The RAI also includes any specific requests by state commenting agencies (See <u>Section 4.6.3</u>). An application is deemed incomplete if it does not include all requested information associated with the application package. However, if a response has been provided to all information requested (either through the original application or the RAI), the agency must either issue a permit or deny the permit. FDOT may voluntarily submit a request to waive the 30-day time clock requirement, to allow the Agency additional time to determine if additional information is required, or to allow FDOT to prepare additional information required for the WMD or FDEP to decide to issue the permit.



HELPFUL HINTS: Coordination with the permit reviewers to discuss the project specifics, and any items that are missing from the application may avoid RAI issuance or make their requests clearer. Permit Reviewers often have many projects and assistance in walking them through key issues can go a long way. In some cases, RAIs are used by the reviewers to confirm items of issue for their records and only require a statement of confirmation.

For federal permitting, an application should receive a RAI from the USACE within 30 days of the receipt of permit application submittal if the application is not complete. This RAI will include a request for all technical information required for the issuance of a Public Notice (Standard Permit only). Once all items are received by the USACE, an application is considered complete, and the Public Notice can be issued (if required).

The USCG application is deemed complete once all application materials have been received. This includes everything listed in the Coast Guard Bridge Permit Application Guide, including the final NEPA documents, Section 404 permit, water quality certificate, and coastal zone management.

Additional RAIs may be received following the lead agencies consultation with other federal agencies. In this case the USACE typically passes on the questions it has received and requests the applicant to respond. Additional RAIs can be issued until the USACE reviewer possesses all the necessary information to make a permit decision. Once all items are received by the USACE, a permit can be issued.

6.8 Agency Approves / Issues Permit (Step 8)

<u>Noticing</u>

WMD/FDEP

It is recommended that FDOT publish a one-time notice of the agency decision in a newspaper of general circulation (meeting the requirements of Section 50.031, F.S.) in the county where the work activity is proposed if it is determined that the proposed activity is reasonably expected to result in a heightened public concern or likelihood of request for administrative proceedings.

The FDEP or WMD staff will provide a "Notice of Intent to Issue" that explains the time limit for a party to file a petition for an administrative hearing. Members of the public, if not provided with a Notice of the Intent to Issue an Agency permit, may have the right to petition for an administrative hearing on the activity at any time.

Most projects will have a 30-day public comment period, but some limited projects may have a 15-day public comment period. Anyone may request a public meeting during the public comment period; if held, the comment period is extended until the end of the public meeting or later if a later date is approved by the presiding officer.



BEST PRACTICES: FDOT can publish a one-time notice of the intended decision to issue the permit for all projects requiring an individual permit. A standard noticing form can be found on <u>FDEP's permitting website</u>.

<u>USACE Public Notice</u>

For projects requiring a Standard Permit, the USACE is required to publish a Public Notice. For the USACE, the Public Notice represents a description of the "who, what, when, where and why" of the proposed project. The information required for the Public Notice includes basic applicant information; project location; project purpose [as required by the 404(b)(1) Guidelines]; proposed work; existing conditions; identification of federally listed species that may be present on the site; alternatives/avoidance/minimization analysis; and proposed mitigation to offset the unavoidable wetland impacts.

The Public Notice is a critical milestone to reach since it represents the initiation of the required commenting review period. The Public Notice package is deemed complete when the reviewer has determined that the project design, wetland impacts, and proposed mitigation have all been agreed upon. The Public Notice is posted for comment for a period that typically consists of 21 days for the public and any other interested party, including other governmental agencies.

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HELPFUL HINTS: The cover letter on the submittal of the USACE permit can summarize the project in the same format as a Public Notice to expedite the USACE reviewers time drafting it. Refer to a recent Public Notice for a FDOT project, as a guide to the format of the cover letter.

Once the Public Notice is issued, it can be accessed on the <u>USACE (Jacksonville District)</u> <u>Public Notice website</u>. Even though the Public Notice period is generally only 21 days, any comments received by the USACE during permit review can still be added to the permit file and addressed. Should a project have significant changes after the Public Notice has been completed (changes in impacts, changes in mitigation, etc.), a new Public Notice must be issued.

Issuance and Execution of Permits

<u>Federal</u>

Once a draft Standard Permit/Intent to Issue is prepared by USACE, a "first time out" letter and initial proffered permit instrument is sent to FDOT for review. At this time, FDOT has the option of reviewing the draft permit and coordinating with the USACE should there be any specific conditions of the draft permit that need to be altered or adjusted. Once agreement is reached, FDOT will sign the draft permit and return it to the USACE for finalizing the permit. Once the USACE receives the draft permit signed by FDOT, the USACE will sign the permit and the permit is then final.

<u>State</u>

Once a permit application is deemed complete, the WMD/FDEP reviewers will decide to either issue or deny the permit. If the decision is to approve the permit, the WMD/FDEP has 60 days from the last RAI response to issue the permit. Individual and General permits are typically issued for a period of five years. Conceptual permits can be issued for a period of up to 20 years. Once the permit/Intent to Issue has been issued, FDOT could provide comments to the WMD/FDEP. If necessary, the WMD/FDEP will then implement a minor modification to fix any minor errors.

Permit Conditions

Permits include a set of conditions. Environmental Permit Coordinators should read all permit conditions for every permit issued, and coordinate with appropriate offices (if needed) to address permit conditions well before project letting. The permits have general and special conditions which must be followed by FDOT and the Contractor or the project may be stopped and/or result in fines. Generally, FDOT uses Construction Engineering and Inspection (CEI) guidelines to ensure permit compliance. If any conditions of the permit are not acceptable, the issue must be resolved prior to the initiation of any work.

There are typically at least three conditions that require FDOT action: construction commencement noticing (standard form), documentation that mitigation conditions have been met, and post-construction submittal of As-Builts and transfer to operational phase within 30 days of construction completion. Documentation that mitigation conditions have been met is very important, as it is a requirement that must be met before starting construction (i.e., before the wetland impacts). The operation and maintenance phase of all ERP permits lasts in perpetuity. Please refer to <u>Section 7: Construction and Maintenance Compliance, Enforcement, and Permit Expiration</u> for additional information on permit conditions.



HELPFUL HINTS: It is important to include within the permit tracking a list of general and special conditions that FDOT must implement before and after construction.

6.9 Review Final Plans and Permits (Step 9)

Issued permits are based on the signed and sealed plans submitted with the application package. The EPC should continue to review updated plans through the duration of the Design phase to determine if there are any changes that will require a permit modification. The permit will have an issue date and an expiration date. Requests to extend the permit duration need to be submitted at least six months prior to the expiration date. It is important to read the conditions of each individual permit as timelines for extension and expiration may differ.

6.10 Prepare Permit Transmittal Memorandum and Transmit Permit Package to Construction (Step 10)

Once the environmental permit(s) are issued, the EPC utilizes a **Permit Transmittal Memorandum, Form No. 650-040-01** found on <u>FDOT Procedural Document Library</u> to transfer the permit(s) to the Construction Office and posts the permit(s) to <u>FDOT's File</u> <u>Transfer Protocol (FTP) site</u>. Note that in some Districts, the Construction Office posts the permits on the FTP site after receiving the Permit Transmittal Memorandum and permits from the Environmental Permit Coordinator. Posting to the FTP site is part of the official contract package. Potential Contractors use the FTP site to obtain copies of the permits when preparing their bids. The Construction Office, CEI team, winning Contractor, and Maintenance Office review the environmental permits to ensure permit compliance during the Construction and Maintenance phase of a project.

6.11 Tracking Tools for Permitting

Each District EPC must implement a means to track the conditions associated with each permit issued to FDOT – including but not limited to pre-construction wildlife surveys/permitting, mitigation implementation/purchase, ESA consultation, resource protection during construction, permit expiration dates, monitoring and inspection schedules, and post-construction notification and reporting. Each District will develop methods of tracking to accommodate their permit compliance practices. The following sections provide examples that have been found helpful around the state.

6.11.1 Permit Trackers

Development of permit trackers help in tracking permit conditions, special provisions, and agency notifications. These tools are helpful when outlining the items to be completed at various milestones before, during and after construction, as well as outline responsible staff and timelines for completion.

The format for permit trackers can vary but include:

- Preparation of manual Excel spreadsheets maintained before, during and post construction;
- Preparation of automated Excel spreadsheets programmed to mine project data directly from FDOT databases such as Work Program, Project Suite, etc.;
- GIS-based permit tracking databases;
- SharePoint Sites developed as a central repository for permit related information including inspection reports and permit documentation; or,
- Automated notifications via email which mine data relating to permit expiration dates, survey schedules, or agency notifications (during construction or post construction) from FDOT databases and notify project staff.

Permit trackers can be used during the pre-construction meeting to alert FDOT's CEI staff and the Contractor of key environmental issues, as well as during regular construction progress meetings to track items that need to be completed throughout construction.

6.11.2 Project Suite Enterprise Edition Modules

Project Suite Enterprise Edition is a statewide tool developed to track and coordinate production activities throughout the Department. The tool is made up of various modules specific to the offices and programs within each District. A District can modify the modules to align with their own procedures by coordinating with the Project Suite Enterprise Edition Application Services Team in Central Office.

The statewide Permits Module allows the Environmental Permit Coordinator to enter data relating to the permit(s) and mitigation requirements, including but not limited to the following:

- Permit Type
- Authorizing Agency
- Current Status
- Application and Permit Numbers
- Issued and Expiration Dates
- Description of mitigation requirements
- FDOT and Agency contacts involved with the permitting effort
- Permit Notes to document RAI responses, agency decisions, etc.

In addition, the permits can be uploaded to the module for reference and ultimately are saved into Enterprise Electronic Data Management System (EEDMS). See the <u>ProjectSuite</u> <u>Enterprise Edition website</u> (password required) for additional details and computer-based trainings on how to use the tool.

If updated regularly, the Permits Module serves as an easily accessible snapshot of the current status of the permitting process for each project. This tool can be useful to the Environmental Permit Coordinator and PMs when preparing for progress meetings with project staff or with upper management to quickly access the permit status.

Additionally, a Commitment Module has been created in Project Suite Enterprise Edition to document, transmit, and track all commitments established as a result of the PD&E Study and/or agency coordination. Once the Environmental Document has been finalized, it is the PD&E PM's responsibility to enter all commitments into the Project Suite Enterprise Edition Commitment Module in accordance with <u>Procedure No. 650-000-003</u>, <u>Project Commitment Tracking</u> (downloadable). These commitments will then be transferred to the Design PM for future tracking.



NOTE: This module is dependent on user input. Therefore, regular updates by the EPC or designated staff will keep the Permits and Commitment Module information up to date and accurate. It is recommended that District staff set a regular schedule for entering updates.

6.11.3 Statewide Environmental Project Tracker (SWEPT) Environmental Permits Module

The Statewide Environmental Project Tracker (SWEPT) includes an Environmental Permits Module that allows the District Permit Coordinators to track permitting information including applications, RAIs, issued permits and mitigation requirements. It can also create the Permit Transmittal Memorandum, which is used to transmit issued permits to Construction. The SWEPT Permitting Module can be accessed at <u>SWEPT</u> (password **required)**. Access to the module can be requested through the District's Environmental Permits Coordinator.

SECTION 7: CONSTRUCTION AND MAINTENANCE COMPLIANCE, ENFORCEMENT, AND PERMIT EXPIRATION

The focus of this Section is to discuss the activities associated with permitting, as well as operation and maintenance conditions. The role of the permittee does not end with the award of a permit, rather there are coordination activities, conditions, and maintenance requirements that must be attended to. Often the oversight of these requirements is transitioned between those putting together the permit application to those overseeing the construction phase, and afterwards the long-term maintenance and operation of the permitted facilities.

All the regulatory agencies that issue permits to FDOT also maintain an Enforcement and Compliance section. These sections ensure that regulated activities are implemented in a manner consistent with the issued permits/authorizations (including permit conditions and applicable rules). Each agency's compliance structure is organized to satisfy the specific requirements of its regulatory program.

The United States Army Corps of Engineers (USACE) maintains a central Compliance/Enforcement Program in Jacksonville, with dedicated compliance and enforcement staff members located in each local regulatory office.

The United States Coast Guard (USCG) District 7 office, located in Miami, is responsible for the entire state of Florida except for the area covered by FDOT District 3. The responsibility for USCG enforcement and permitting in northwest Florida is handled by the USCG District 8 office in New Orleans, Louisiana.

The Florida Department of Environmental Protection (FDEP) and the Water Management District (WMD) offices each have a Compliance/Enforcement section for the Environmental Resource Permitting (ERP) Program. In addition, WMD has an enforcement section for the Water Use Program and Water Well Program. FDEP also maintains a centralized compliance/enforcement staff in Tallahassee for more specialized programs, like the State Lands Section, the National Pollutant Discharge Elimination System (NPDES) Program and the Coastal Construction Control Line (CCCL) Program.

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HELPFUL HINTS: FDOT must demonstrate compliance with all permit conditions by proactively communicating with regulatory agencies throughout the construction phase of the project.

If project staff believe that permit compliance or enforcement actions may become an issue, it is recommended to address these issues promptly. Coordination between the District Construction, Environmental Permits Coordinator and Environmental Management Offices is important to ensure the Department is fully compliant with federal and state permit requirements. Any deviations that are not authorized may subject the permittee to

enforcement action and revocation of permits. If deviations are deemed necessary, a permit modification may be required.

This Section also discusses permits that expire and the process for renewing them. Scheduling may need to be reviewed to ensure that permits do not expire. Application for a permit renewal is timely <u>only</u> if it is filed prior to expiration of the existing permit.

7.1 Permit Compliance/Project Commitments

The goal of permit compliance is to ensure effective compliance within all areas of environmental concern during the construction and operation phases of a project. The Construction Project Administration Manual (CPAM) outlines the steps needed for construction projects and provides procedures to be implemented so compliance is achieved for all issued permits. Compliance during the maintenance and operation phase of the permit involves conducting appropriate maintenance of the system to ensure it functions as designed.

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HELPFUL HINTS: FDOT's Construction Project Administrator and Environmental Permit Coordinator are responsible for ensuring that all permit issued conditions are followed during and after the construction phase.

Each FDOT District has established a methodology for tracking all permits issued for a specific project, including every permit condition in the authorizations.

In addition to the permit conditions, it is also important to identify other commitments developed in previous phases of the project. These project commitments include obligations resulting from the Project Development and Environment (PD&E) Study and the Design Phase. See the *Project Commitment Tracker Procedure 650-000-003* and the *PD&E Manual Part 2, Chapter 22* for additional details regarding commitment tracking. Some projects may also have a United States Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS) Biological Opinion (BO) or a State Historic Preservation Officer (SHPO) Agreement to ensure protection of archaeological or historical resources. These commitments may not be incorporated directly within the issued permits, so it is important for the Project Administrator, Environmental Management Office, and Environmental Permit Coordinator to bring these commitments forward prior to the Construction phase.

During construction, permit compliance is one of the primary responsibilities of the Contractor. This task should be completed in consultation with FDOT's Construction Project Administrator. A complete set of all issued permits is included in the construction contract package, along with a requirement that the Contractor must adhere to all permit conditions in the Standard Specifications.

Generally, FDOT's Construction Project Administrator will conduct a meeting with the Contractor to review all permitting requirements and commitments. FDOT can also identify or assign a Construction Engineering and Inspection (CEI) consultant to provide additional oversight during construction, including review of construction operations; required reports and monitoring; and ensuring that project commitments and permit conditions are followed.

HELPFUL HINTS: Not all commitments made during the PD&E phase, or made to the resource agencies (i.e., USFWS or NMFS BO and SHPO) during the design phase, are incorporated directly within the issued permits, so it is important for the Project Administrator and Environmental Permit Coordinator to bring these commitments forward prior to the Construction phase.

The conditions in each permit can vary, though every ERP and Section 404 (Dredge & Fill) permit will include a set of Standard/General Conditions related to the permit type and a set of Specific Conditions unique to the project for which the permit is issued.

7.2 Standard/General Permit Conditions

This section identifies common conditions associated with ERPs and Section 404 (Dredge & Fill) Permits. The State ERP General Conditions are taken from Chapter 62-330.405, whereas Section 404 General Conditions are taken from 33 CFR §§ 320-330. All the standard/general conditions are binding to FDOT and enforceable under the regulations of the governing authority. Some examples of standard/general conditions that require action by FDOT are described in the following sections.

7.2.1 Construction Commencement/Start Work

The timeframe immediately prior to the start of construction is a crucial stage in project compliance and requires an understanding of what is not authorized by the permit. These Construction Commencement conditions include any requirements triggered by the start of construction. State-issued Individual ERPs and ROW Occupancy Permits require the submittal of a **Construction Commencement Notice** at least 48 hours prior to construction. Chapter 62-330.350 requires that the permittee fill out the Construction Commencement Notice form (which is included with the permit documents) at least 48 hours prior to starting work (see <u>Form 62-330.350(1)</u>). This form is generally submitted to the WMD and FDEP via their ePermitting websites.

USACE General Permit Conditions require a commencement notification within ten days from the date of initiating activities authorized by the permit. This notification is generally submitted by e-mail.

Note that some permits, for example environmental sensitive projects, projects off-system (ROW Occupancy permits), or projects with specific commitments require a Pre-Construction Meeting between FDOT, contractors and regulatory agencies, to review permit conditions and ensure a clear understanding of the permit requirements by all parties.

7.2.2 As-Builts

State ERP Permit

As per the ERP conditions, the post-construction submittal of completed plans (referred to as as-built drawings) and the transfer of the permit to the operational phase from the construction phase is required within 30 days of construction completion. An <u>As-built</u> <u>Certification and Request for Conversion to Operation Phase Form</u> is to be completed by FDOT. The operation phase of the permit is effective when the construction certification and maintenance entity is not the permittee, the permittee shall operate the project, system, works, or other activities temporarily until such time as the transfer to the operation entity is finalized (use Form 62-330.310(2)). Generally, the Contractor will sign and seal the asbuilts, and FDOT (as the permittee) will request the transfer of the permit from a construction permit to an operation permit. Typically, both documents are submitted to the WMD or FDEP via their ePermitting websites and posted at the project construction site. Note that the CEI or Construction Project Administrator is typically responsible for completing the As-built Form.

Federal Permit

For the USACE Permit, the CEI or Construction Project Administrator is required to submit the As-Built Certification form within 60 days of completion of the work. This form is included in the permit package and certifies that the project was constructed as permitted, as well as containing basic information about the project and the permittee.

If there was any deviation in the project from the permitted plans, it must be detailed on this form. It is important to note that if a deviation occurred, the changes may be subject to compliance and enforcement review since this form does not constitute approval.

Minor deviations in approved construction plans can be handled through the Self Certification process which allows the permittee to certify on ePermitting minor modifications for the permitted plans. For major deviations, the USACE reviewer should first be contacted to determine if a permit modification is required for the proposed design change.

7.3 Specific Permit Conditions

State ERPs and Section 404 (Dredge & Fill) Permits also include Specific Conditions that are unique to the individual project and described in the text of the permit document. These conditions specifically address measures to prevent water quality violations; implement mitigation to offset wetland impacts; monitor activities to avoid impacts to listed species or habitat; and employ specific construction techniques to avoid/minimize impacts to wetlands.

It is especially important to note the specific conditions for each project, as these conditions set the limits of the authorization and therefore define when enforcement actions may be warranted. See <u>Section 6.8</u>.

7.3.1 Mitigation Construction

For FDOT projects that involve a Mitigation Plan to compensate wetland or species impacts, specific conditions are included in the permit to ensure the plan is successfully implemented. For projects involving the purchase of credits from a mitigation bank, permits typically includes a condition requiring FDOT, or the mitigation bank on behalf of FDOT, to submit documentation to the permitting agency that the required number of credits have been deducted from the mitigation bank's official ledger.

FDOT will have to provide evidence that mitigation credits have been purchased through a Letter of Reservation. The USACE allows 30 days from the date of initiating the work authorized by the permit to provide verification that the credits have been purchased. The mitigation bank ledger provides proof that the full payment for the required credits has been made and the credits deducted (see **Wetland Mitigation Appendix)**.

For projects that have permittee-responsible mitigation (including mitigation provided by the WMD), more detailed conditions are included. During the permitting process, coordination would have been conducted between FDOT (or the Contractor) and the regulatory agencies (WMD/FDEP and USACE) to finalize the mitigation plan. The issued permit will then include a condition for the implementation of all components of the mitigation plan. This plan is attached to the permit and must be followed in its entirety.

Conditions may also state when the mitigation must be initiated relative to the start of construction, and when the mitigation work must be completed. The conditions will usually include measures such as timeframes for when a baseline report (termed the Time-Zero Monitoring Report) should be completed, success criteria identified, as well as maintenance and monitoring requirements.

If the project includes the creation of a mitigation site, the permit conditions usually require the recording of a conservation easement over the mitigation area. All conservation easements, deed restrictions, and restrictive covenants accepted for mitigation purposes shall be granted in perpetuity without encumbrances, unless such encumbrances do not adversely affect the ecological viability of the mitigation. All conservation easements shall be consistent with Section 704.06, F.S., and shall contain restrictions that ensure the ecological viability of the site. In most cases, the condition will state that the conservation easement must be recorded prior to the initiation of any wetland impacts. Therefore, conservation easements should be recorded as soon as practicable after permit issuance, to avoid unnecessary delays to the construction schedule.

7.3.2 Water Quality

Pursuant to section 10.1.1(c), above, an applicant must provide reasonable assurance that the regulated activity will not cause or contribute to violations of water quality standards in areas where water quality standards apply. Reasonable assurances regarding water quality must be provided both for the short term and the long term, addressing the proposed construction, alteration, operation, maintenance, removal, and abandonment of a project. A general condition requiring authorized project construction to avoid water quality violations is included in all Standard Permits issued to FDOT. Similarly, a general condition is included in the Section 404 Permit that requires FDOT to comply with the Water Quality Certification issued by the State of Florida. As described in <u>Section 4.7.5</u> the ERP issued by the State (usually by the WMDs for FDOT Projects) constitutes the Water Quality Certification.

If the site of the proposed activity currently does not meet water quality standards, the applicant must demonstrate that the proposed activity will not contribute to the existing violation. If the proposed activity will contribute to the existing violation, mitigation may be proposed. For both the state ERP and the Section 404 (Dredge & Fill) Permit contain general and specific conditions designed to avoid water quality impacts to in Waters of the State (by the ERP) and in Waters of the United States (as required in the Section 404). FDOT's Construction Project Administrator will review these water-quality criteria with the contractors to ensure that all required water quality measures are implemented. The EPC often participates in this review.

Short-Term Water Quality Considerations

The applicant must address the short-term water quality impacts of a proposed activity, including:

- providing and maintaining turbidity barriers or similar devices for the duration of dewatering and other construction activities in or adjacent to wetlands or other surface waters;
- stabilizing newly created slopes or surfaces in or adjacent to wetlands and other surface waters to prevent erosion and turbidity;
- providing proper construction access for barges, boats, and equipment to ensure that propeller dredging and rutting from vehicular traffic does not occur;
- maintaining construction equipment to ensure that oils, greases, gasoline, or other pollutants are not released into wetlands or other surface waters;
- controlling the discharge from spoil disposal sites; and
- preventing any other discharge or release of pollutants during construction or alteration that will cause or contribute to water quality standards being violated.

Long Term Water Quality Considerations

The applicant must address the long-term water quality impacts of a proposed activity, including:

• The potential of a constructed or altered water body to cause or contribute to violations of water quality standards due to its depth or configuration. For example, the depth of water bodies must be designed to ensure proper mixing so that the water quality standard for dissolved oxygen will not be violated in the lower levels of the water body, but the depth should not be so shallow that the bottom sediments are frequently resuspended by boat activity. Water bodies must be configured to prevent

the creation of debris traps or stagnant areas that could result in violations of water quality standards.

- Long term erosion, siltation or propeller dredging that will cause turbidity violations.
- Prevention of any discharge or release of pollutants from the activity that will cause water quality standards to be violated.

Environmental permits issued to FDOT also typically include specific conditions relative to maintaining water quality standards. These conditions require the installation of erosion control and turbidity control measures that are generally described in the Erosion Control Plan or Stormwater Pollution Prevention Plan (SWPPP). The SWPPP also stipulates that Best Management Practices (BMPs) be implemented to prevent any violations of water quality standards. SWPPP is only required when a NPDES Permit is required.

In addition to the ERP and Section 404 conditions, any FDOT project with soil disturbance exceeding one acre in size will also require FDOT's Contractor to secure a <u>National</u> <u>Pollutant Discharge Elimination System (NPDES) Permit</u>. This permit requires the Contractor to implement the SWPPP and includes monitoring and reporting requirements to ensure that all authorized elements designed to contain project-generated turbidity and erosion are followed.

7.3.3 Erosion Control

As discussed in <u>Section 6.8</u>, the specific conditions for a project may include a requirement for an Erosion Control Plan. This plan is used to inform the permitting agency of which erosion control measures will be implemented to protect adjacent wetlands during the construction phase. Some WMDs may require Erosion Control Plans to be submitted by FDOT, for review and approval prior to soil disturbance. The Erosion Control Plan and SRCC submitted during permitting are conceptual. The Contractor develops an Erosion Control Plan just prior to construction that best fits the specific construction means and methods. See <u>Section 4.7.9</u> and <u>Figure 6-4</u>.

7.4 Consumptive Use/Dewatering Permit Compliance

A WMD consumptive water use permit allows the permit holder to withdraw a specified amount of water from the ground (aquifers) or a canal, lake or river (surface water) for reasonable-beneficial uses. The water can be used for dewatering an area for construction, utility activities, and watering of landscape plantings. Consumptive water use permits require water conservation measures to prevent wasteful uses and also set limits on how much water can be withdrawn at each location in the aquifer or from surface water. These limits protect existing residents' water supplies and protect aquifers from saltwater intrusion damage, and surface water sources from drying up.

Generally, dewatering permits are obtained at the same time as the ERP (see **Consumptive Water Use Permit Appendix**).

7.5 Permittee Responsible Activities

FDOT project permits require that post-construction activities be conducted. If so, this will be documented in the project-specific conditions within the permit. Examples of activities that may be conditioned for project maintenance are stormwater management facilities (ponds, swales, drainage structures) and permittee responsible mitigation sites.

7.5.1 Stormwater Management Facilities Maintenance

When a project involves the creation of stormwater management facilities, the project plans will specify the construction details for the stormwater treatment system. The ERP generally contains post-construction conditions requiring maintenance of the stormwater facilities by FDOT.

The following are examples of stormwater management maintenance activities requirements for stormwater treatment systems and are not intended to be all-inclusive:

- Mowing as appropriate for wet/dry detention ponds,
- Mowing and removal of vegetation,
- Vegetative stabilization of eroding side slopes,
- Regular removal of accumulated solids and debris from the inlets or outlets structures,
- Clearing materials that have accumulated in the discharge structure,
- Inspecting drainage structures to verify their structural integrity, and
- Monitoring of sediment accumulations in the pond bottom.

7.5.2 Permit Required Monitoring

Many permits require some type of monitoring during construction to ensure that permit conditions are met. Examples of required monitoring include wetland mitigation monitoring, water quality monitoring, and monitoring for the occurrence of listed species within the project limits.

Monitoring activities usually require that reports be prepared within specified timeframes for submittal to the appropriate agency. Examples of typically required monitoring activities are described in the following sections.

7.5.2.1 Invasive/Nuisance Plant Monitoring

When FDOT project corridors extend through conservation areas and/or in cases where on-site wetlands mitigation is developed, there are typically specific conditions in both the state ERP and the Section 404 (Dredge & Fill) Permit related to the monitoring of any disturbed natural and/or wetland edges (adjacent to the final project footprint) for colonization by any nuisance or invasive plant species. The frequency of monitoring is dependent on the quality of the natural and/or wetlands adjacent to the final project footprint. Results are generally incorporated into the monitoring reports but may need to be provided in separate summary reports, depending on agency request. A qualified botanist from the Contractor is typically required to evaluate the final permitted footprint for any nuisance or invasive plant species present. If any of these species are identified, a certified plant control professional will be required to properly treat the nuisance/exotic plants in accordance with plant control specifications.



HELPFUL HINTS: To understand which plants are exotic invasive go to the <u>Florida Invasive Species Council</u> (FISC) website. FISC compiles <u>invasive</u> <u>species lists</u> that are revised every two years. Lists are broken down into State of Florida Noxious Weed List, USDA Federal Noxious Weed List, and Prohibited Aquatic Plants.

7.5.2.2 Water Quality Monitoring

When an FDOT construction project is located wholly or partially in water, those construction activities conducted in the water will typically require turbidity monitoring. Additionally, the permits associated with the project will include specific conditions related to water quality. The Contractor or the CEI conducts this monitoring.

In practice, turbidity readings are taken once in the mid-morning and once in the midafternoon to meet the 4-hour schedule requirements. The exception to this schedule is when work occurs during the night; then additional monitoring is required (see <u>Florida</u> <u>Stormwater Erosion and Sedimentation Control Inspectors Manual</u>).

The purpose of turbidity monitoring is to determine if turbidity standards are being maintained. The turbidity monitoring results are assembled in a report that is submitted to agencies on a daily, weekly, or monthly basis, depending on the permit conditions.

If turbidity results indicate an exceedance of state standards, the following actions are usually required by ERP Permit conditions:

- 1. In-water construction must stop;
- 2. FDOT's Construction Project Administrator must be notified;
- 3. The regulatory agencies are notified by the Contractor (by phone or by e-mail);
- 4. Corrective action is determined and implemented;
- 5. Agencies are notified of the corrective action;
- 6. Agencies give approval for resumption of in-water activities.

Note that there are several other monitoring and testing procedures related to the maintenance of state water quality standards that may be required by the state ERP or Section 404 (Dredge and Fill) Permit. See FDEP's guidance listed on their website, <u>Water</u> <u>Quality Standards</u>. Examples of these other procedures include:

- Groundwater testing;
- Soils testing; and
- Testing of water from dewatering operations.

7.5.2.3 National Pollutant Discharge Elimination System Monitoring

National Pollutant Discharge Elimination System (NPDES) Inspectors

Contractors for FDOT projects that include a SWPPP include NPDES-trained inspectors as part of the construction team. These inspectors are responsible for the proper implementation of the SWPPP.

In addition, NPDES inspectors may be required to oversee the erosion and turbidity controls.

As part of the NPDES Permit, inspectors are required to monitor all turbidity and erosion control devices at least once a week and after **each** rain event greater than 0.5 inch. The inspector is required to prepare a report after each inspection and maintain a log of all reports. FDEP may periodically require a copy of this log for their review.

In addition to preparing the report, the inspector is required to identify any failures of the turbidity and erosion control systems to the Contractor. Any identified failures of these controls should be immediately remedied by the Contractor, with all corrective actions described. These corrections and the date of the correction must be part of the logbook.

Notice of Termination

At the completion of each project, a <u>NPDES Stormwater Notice of Termination</u> (NOT) form must be submitted to FDEP by the Contractor via the <u>FDEP Business Portal</u>. This form is submitted once the disturbed soils have stabilized and erosion controls for the project are no longer required.

7.5.2.4 Endangered and Threatened Species Monitoring

Permits may include specific conditions for the monitoring of listed species or other specific conditions related to listed species. Permit-specific conditions are therefore quite variable since they are dependent on project location and species present in the area. A few of the common conditions for listed species follow:

- <u>Manatee:</u> Permits may include standard manatee construction conditions as part of the specific conditions for any in-water work in waterbodies accessible to the manatee. These conditions are more fully described in the appendix for the review of manatee impacts (see **West Indian Manatee Appendix)**.
- <u>Eastern indigo snake</u>: The standard conditions may be included in Section 404 Permits and include habitat(s) where the eastern indigo snake may be found (see Eastern Indigo Snake Appendix).
- <u>Aquatic species</u>: Several aquatic listed species have a set of specific construction conditions included in the Section 404 Permit. These species include sea turtles (Kemp's Ridley Turtles, loggerhead turtles, hawksbill turtles, leatherback, and green sea turtles), and the smalltooth sawfish. These conditions are more fully described in the appendix for the review of impacts to these species (see **Sea Turtles and Smalltooth Sawfish Appendix**).

• Other listed species: There are many listed species for which monitoring may be required as conditions in permits. This monitoring is generally focused on nesting surveys but may include other surveying responsibilities as well. These surveys have a specified seasonal requirement for bird species (e.g., Audubon's crested caracara) and other species (e.g., sand skink), so it is critical that the Contractor have qualified observers on their team that can perform the species survey using required protocols (see Audubon's Crested Caracara and Sand Sink Appendices).

For further information on the monitoring requirements for a variety of listed species, please see the species information in the **Appendices**.

Note that FDOT has developed a guidance document for **Contractor Requirements for Unanticipated Interactions with Protected Species** which is often provided to the construction Contractor should they encounter a protected species.

7.5.2.5 Historic and Archaeological Resources Monitoring

All state ERPs and Section 404 (Dredge & Fill) standard permits include a general condition prescribing actions that must occur if archaeological or cultural remains are uncovered during construction activities for a FDOT project. Generally, the following actions are required:

- 1. Construction activities in the area of the discovery must cease;
- 2. Contractor/Design-Build (D/B) team notifies FDOT PM;
- 3. The District Cultural Resources Coordinator, notifies the Florida Department of State Division of Historical Resources; and,
- 4. Florida Department of State provides direction on required activities.

For projects where the PD&E Study identified the presence of archaeological or historic resources, the state ERP and/or the Section 404 (Dredge & Fill) Permit may also contain a set of specific conditions. These conditions identify any actions that FDOT (as the permittee) is required to perform when constructing in the vicinity of the archaeological or cultural resources. If a PD&E Study was not performed, any archaeological or historic resources present in the project corridor will be identified during the design process. FDOT's Construction Project Administrator will inform the Contractor of these requirements.

In addition, the presence (or availability) of a professional archaeological observer may be required when construction is ongoing in the areas where archaeological resources were identified previously.

7.5.2.6 Permittee Responsible Mitigation and Maintenance

Permittee Responsible Mitigation - Construction Monitoring

To ensure the successful creation/enhancement/restoration of wetland mitigation, any permittee-responsible mitigation sites will have permit conditions that address monitoring throughout construction and after the mitigation activities have been completed. During construction, the mitigation construction Contractor must follow all elements of the mitigation plan as authorized by the permits. For permittee-responsible sites constructed by a WMD (<u>Section 5.6.1.3</u>), monitoring will be conducted under the direction of the WMD.

It is critical for the mitigation site Contractor, CEI, and FDOT to evaluate site-specific conditions observed during construction and make appropriate adjustments to ensure mitigation plan goals are met. The mitigation Contractor must ensure that the site conditions follow all permit conditions. Some minor changes may be incorporated into the plan and noted when the as-builts are submitted to permitting agencies upon completion of the mitigation.

HELPFUL HINTS: Mitigation construction changes should be discussed with the permit agencies to determine if a modification is required. Any changes to the permitted mitigation design must be documented with FDOT in writing by the mitigation construction Contractor.

If any changes are required to the permitted mitigation design plan, it is crucial for the Contractor to keep FDOT apprised of the mitigation status and to communicate the need for any changes proposed as a result of specific site conditions. As emphasized in this section, the responsibility for compliance with the permit conditions (including mitigation conditions) ultimately rests upon FDOT as the permittee.

If earthwork is required for the mitigation plan, conditions typically require FDOT to submit mitigation as-builts to the permitting agencies for review, comment, and approval once the final grades are achieved. The as-built approval for earthwork occurs <u>prior to planting</u> <u>the site</u>. This is an important step to ensure that the agencies are satisfied with the final grades. It is also key for the selection of wetland plant species as small differences in water depth will determine the success or failure of specific wetland plant types. Failure to obtain approval from the agencies could result in the need to remove the wetland plants, regrade the site, and re-plant the vegetation, all of which may be time-consuming and costly.

7.5.2.7 Mitigation Success Monitoring

Once the mitigation activities have been completed, monitoring is required to evaluate success of the mitigation site. Monitoring events are usually conducted in combination with maintenance activities to document the progress of the mitigation activities and identify any problems that must be addressed (e.g., exotic vegetation recruitment).

Typically, annual, or semi-annual monitoring events are required to document the progress of the mitigation activities. Most mitigation plans will include a minimum of five years of annual monitoring, starting with a baseline monitoring (sometimes referred to as "Time-Zero Monitoring Report") event to document site conditions prior to the initiation of mitigation activities. During this event, transects are established that will be used for all future monitoring events, and photos of each monitoring station are taken. Subsequent monitoring events will document the site's progress toward meeting the mitigation success criteria specified by the permit. The reports usually contain an overall description of the site, information on the changes from the previous event, any unusual conditions, or

events, and supporting documentation (e.g., vegetation coverage and survival data; field photography).

Success Criteria

Mitigation is deemed complete and successful when all the success criteria and other mitigation-related permit conditions have been met, although perpetual maintenance obligations may exist (e.g., maintaining exotic vegetation below specified levels). When the mitigation site meets success criteria, it is important to contact the appropriate regulatory agency with a request to be released from further site monitoring. Generally, success is defined as 30 percent coverage in Year 1, 50 percent in Year 2, and 80 percent in Year 3. However, most mitigation sites require five years to meet the 80 percent coverage. If 80 percent is reached prior to five years, FDOT can request an early closeout.

If a mitigation site fails to meet the success criteria, FDOT should coordinate with the permitting agencies to work on implementing a remedial plan. Monitoring obligations may be extended beyond the typical five-year timeframe until the site is brought into compliance with the permit requirements (success criteria). It is imperative to have a close-out letter from the permitting agencies which removes any further monitoring obligation by FDOT. Often, maintenance requirements may exceed the survival criteria. FDOT needs to establish an understanding with the agencies should long-term maintenance be an issue. Note that USACE releases mitigation credits for permittee responsible mitigation sites as certain criteria that are identified within the permit are achieved, including successful completion of the establishment of the mitigation site (see **Wetland Mitigation Appendix**).

Mitigation Maintenance

Mitigation sites associated with a permittee-responsible mitigation plan usually include provisions for maintenance activities that must be conducted after the mitigation site has been established. Most mitigation sites require maintenance events to demonstrate the successful establishment of the mitigation site and to prevent the spread of nuisance and exotic vegetation. The number and frequency of maintenance events, as conditioned in the permit, will depend on the type of mitigation being conducted and the site characteristics. Properly executed maintenance events may help the mitigation site achieve the success criteria within shorter timeframes and can avoid the need to extend the maintenance for longer than originally permitted, typically five years.

Long-term maintenance is required by FDOT or can be designated through Agreement to a County or City if adjacent or part of their natural lands. Maintenance is typically minimal if the mitigation design is working as designed.

7.5.3 General Maintenance Activities Associated with Permitted Transportation Projects

"Maintenance" means the preservation of the transportation facility, including surface, shoulders, roadsides, structures, and such traffic control devices as are necessary for safe and efficient utilization of the highway in a manner that substantially conforms to the pre-

existing design, function, and location as the original except to meet current engineering standards or environmental permit requirements. Maintenance activities can vary in scope, level or work, and impact to resources. The Office of Maintenance develops and provides policies, procedures, training, criteria, and standards for the maintenance of bridges and roadways. FDOT is responsible for providing routine and uniform maintenance of the State Highway System in a safe condition for the users and for protecting the public investment in these facilities by preserving existing infrastructure.

Maintenance Activities - Protected Species

Maintenance activities such as roadside mowing, culvert repair/replacement, herbicide/fertilizer application, tree/shrub trimming, guardrail repair, bridge maintenance and repair typically are undertaken without impacting protected species or wildlife habitat. District Environmental Office staff should assist the Office of Maintenance when protected species issues arise (Section 5.1.3) or maintenance activities that may affect protected species or wildlife habitats are planned. Examples include but not limited to culvert repair/replacement in areas known to be inhabited by the Panama City Crayfish (see Species Appendices); mowing and or herbicide/fertilizer application on roadsides inhabited by listed plant species; bridge repair/maintenance in bridges that may be roosting sites for bat species (see FDOT's Bat Exclusion Handbook); bridge repair/maintenance requiring in water work; and trimming in mangrove areas. A field survey is required for maintenance activities which might involve federally listed species consideration in accordance with Section 7 of the FDOT's Standard Specifications for Road and Bridge Construction. Survey methods in Section 5.1.3 apply to off-project locations as well as the project area and are to be performed by District environmental personnel. An NRE or technical memo may be required, and Section 7 consultation may be requested by the Services for any activity which, through reduction of habitat or physical presence, would impact a federally listed species or critical habitat. Coordination may be necessary with both the Services and FWC.

Note that FDOT has developed a guidance document for <u>Contractor Requirements for</u> <u>Unanticipated Interactions with Protected Species</u> which is provided to the construction Contractor.

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HELPFUL HINTS: Permit Conditions and Commitments made with the Services during permitting may have specified requirements and restrictions that the District Maintenance Department should be made aware of by the Environmental Permit Coordinator and District Environmental Management Office.

EMERGENCY ACTIVITIES

Unscheduled emergency repair work resulting from weather storm damage, hurricanes, equipment failure, accidents, and other unanticipated causes can occur where it is critical to restore/maintain distribution operating systems for the safety, health, and welfare of the public. Coordination is required with permitting agencies to outline response actions and is not intended to interfere with emergency response efforts.

The following actions for transportation facilities damaged by an incident resulting in an emergency declared by the Governor of the State and concurred by the Secretary, or a disaster or emergency declared by the President of the United States pursuant to the Robert T. Stafford Act (42 U.S.C. § 5121 et. seq.):

a. Emergency repairs under 49 U.S.C. § 5324; and

b. The repair, reconstruction, restoration, retrofitting, or replacement of any road, highway, bridge, tunnel, or transit facility (such as a ferry dock or bus transfer station), including ancillary transportation facilities (such as pedestrian/bicycle paths and bike lanes), that is in operation or under construction when damaged and the action: occurs within the existing ROW and in a manner, that substantially conforms to the pre-existing design, function, and location as the original (which may include upgrades to meet existing codes and standards as well as upgrades warranted to address conditions that have changed since the original construction); and is commenced within a two-year period beginning on the date of the declaration.

In cases where emergency actions may affect federally listed species and/or critical habitats, emergency consultation with the Services is required by Section 7 of the ESA, as amended (50 CFR § 402.05). Consultation may be conducted informally through alternative procedures that the Service(s)'s Director determines to be consistent with the requirements of the ESA. The key step in emergency consultation is early contact with the District's USFWS Representative or Ecological Services office. To learn more, see the <u>PD&E</u> <u>Manual Part Two, Protect Species and Habitat, 16.4 Emergency Consultations.</u>

7.6 Permit Extensions

Typically permits have expiration dates in association with construction activities. No work authorized by the permit may be conducted after the permit has expired, regardless of the project's progress. The construction phase is typically five years, but for good cause, may be authorized for a longer duration at the time of issuance of the permit. Larger projects may need to be divided up and completed in five-year phases so as not to exceed the maximum per-permit duration. To provide regulatory certainty, the permittee should provide sufficient information for the agency to review the entire scope of the project.

Each FDOT Office maintains a tracking mechanism for identifying the expiration dates of permits. Generally, FDOT's Environmental Permit Coordinator submits the request for the extension of the permit expiration date. It is important to request the extension <u>well in advance of</u> the permit expiration date since the extension request must be processed by the regulatory staff in a manner consistent with any other modification request. The request should specify the period of time necessary to complete the project, so a new expiration date can be set.

Note that state General Permits, federal Regional General Permits, and NWPs cannot be extended beyond the expiration date; however, they can be reauthorized.

All federal NWPs are issued on a five year basis, and therefore all expire on the same date. When an NWP is issued, the expiration date is clearly identified. If construction on a project authorized by an NWP has begun prior to the expiration date of the permit, FDOT has an additional year from the expiration date to complete the project.

7.7 Permit Modifications

When changes to the project design are proposed after permitting has already been completed, modifications of issued permits can be processed with the regulatory agencies to authorize the required changes. Depending on the level of deviation from the issued permits, the changes can be handled with a simple letter request and supporting information (minor modification), or by submitting the revised project information as if it were a new application (major modification).

Regardless of the level of change, it is important to contact the appropriate agency and discuss the project changes as early as possible, to allow reasonable time for the agency's permit modification review.

For Design Build Projects, it is the responsibility of the selected Contractor to coordinate with FDOT and obtain permit modifications for any design changes resulting in the need for a modification. Generally, permitting costs and any additional modification needs are the responsibility of the Design Build team. However, FDOT still remains as the permittee and will review and sign the modification application.

7.8 Permit Tracking During Construction and Maintenance

FDOT Districts utilize internal systems to track issued permits for projects. They use the Permit Transmittal Memorandum to distribute permits to other FDOT personnel and offices, such as the PM, Program Management, Construction, Maintenance, and Specifications. Permits are made available to potential contractors via FDOT's file transfer protocol (FTP) site.

FDOT staff also implement measures to track the completion of tasks associated with each permit, such as: pre-construction wildlife surveys; the implementation of mitigation activities or credit purchases; the protection of resources during construction; the dates of permit expiration; schedules for inspections or monitoring events; and notification or self-certifications after construction is complete. Spreadsheets and/or databases may be helpful, especially when the tracking tools automatically notify the user of upcoming dates and scheduled events. See <u>Section 6.11.1</u> for more details.

7.9 Regulatory Agency Enforcement

Generally, environmental enforcement programs seek to protect the environment, deter violations, and treat the regulated community fairly and equitably. Compliance and enforcement staff have many tools that can be used to resolve non-compliance scenarios. Options to address violations include: no action; voluntary compliance; cease and desist orders; administrative compliance orders; interim measures designed to protect

the aquatic ecosystem from further damage; after-the-fact permits; administrative penalty orders; and civil and criminal judicial actions.

The ultimate option used to resolve any non-compliant situation is dependent on many factors including: the severity of the violation; prompt notification of the agency; the willingness to resolve the violation; and the history of FDOT and/or the Contractor to adhere to permit conditions and environmental requirements.

7.9.1 Voluntary Compliance

Even with well-designed plans, unintended consequences can happen during construction activities that lead to unauthorized wetland or protected species impacts or water quality violations, or otherwise result in a situation that is not in compliance with issued permits. As stated in the introduction to this section, enforcement actions are discretionary, so it is always critical to promptly notify agencies of any event that results in permit non-compliance.

Voluntary notification is an important consideration when environmental regulatory agencies coordinate with permittees to develop solutions to any non-compliance event. The identification and development of immediate solutions are equally important for resolving the cause of the non-compliance and for implementing corrective actions as soon as possible. Inter-agency coordination is typically recommended prior to the implementation of any corrective actions, to obtain any required approval and to confirm that it does have the potential to cause an unforeseen impact.

Typically, regulatory agencies place a higher priority on resolving the causes that led to environmental damages, rather than seeking judicial remedies that may have punitive results. Given a good compliance history, it is generally far more efficient for both sides to cooperate with agencies to resolve any violations. Judicial resolutions can take a significant amount of time and be quite costly to achieve the intended results.

7.9.2 Judicial Enforcement

In the highly unlikely event that a voluntary informal solution to a violation cannot be reached, each regulatory agency has established procedures for pursuing judicial actions. Sections 309 and 404 of the Clean Water Act (CWA) give the Environmental Protection Agency (EPA) and the USACE the authority to take judicial enforcement actions for violations of federal rules.

The authority for the WMDs and FDEP is granted in Chapter 373, Florida Statutes. Note that anyone who knowingly violates water quality criteria (section 301), or the wetland requirements of the ERP criteria in Chapter 373, F.S., may also be subject to criminal liability. For the state agencies, the activity-based split described in the delegation of authority for the review of ERP applications (i.e., WMD versus FDEP administration) also includes a section on the responsibilities for enforcement compliance reviews.

Before initiating an administrative or judicial proceeding against an alleged violator, the regulatory agency has the responsibility to investigate (on-site inspection, sample

collection, review of records, and/or monitoring) to determine that the agency has jurisdiction, and a violation has occurred.

Whenever substantial damage has been caused or may occur if the condition is not corrected, data establishing those facts must be gathered. Depending on the results of this investigation, the case can then lead to a formal enforcement process and ultimately to civil/criminal proceedings. Both the state and the federal government utilize penalty matrices identifying potential costs for any resolution that results from this process.

Should the District find themselves in a situation involving judicial action, the District Management and Office of General Counsel should be informed as soon as possible.

SECTION 8: REFERENCES

Section 1: Introduction

PD&E Manual

https://www.fdot.gov/environment/pubs/pdeman/pdeman-current

Section 2: Role of the Environmental Permit Coordinator in Key Project Phases

ETDM Manual

http://www.fdot.gov/environment/pubs/etdm/etdmmanual.shtm

<u>OEM EDTM Training</u>

https://www.fdot.gov/environment/sched/track7.shtm

<u>Permit Transmittal Memorandum, Form No. 650-040-01</u> <u>https://pdl.fdot.gov/</u>

<u>PD&E Manual, Part 1, Chapter 2 – Class of Action Determination for Highway Projects</u> <u>PD and E Manual (fdot.gov)</u>

<u>FDOT Project Commitment Record Procedure 650-000-003</u> <u>https://pdl.fdot.gov/</u>

Section 3: Federal Processes

<u>USACE Regulatory Offices</u> <u>http://www.saj.usace.army.mil/Missions/Regulatory/Office-Locations/</u>

Setback Guidance for Structures Along Certain Federal Channels

http://www.saj.usace.army.mil/Portals/44/docs/regulatory/Items%20of%20Interest /FAQs%20Fact%20Sheet%20Regulatory%20Aug%202013_508.pdf

Rivers and Harbors Act of 1899 (Navigation), Section 9 and 10

https://www.spl.usace.army.mil/Missions/Regulatory/Jurisdictional-Determination/Section-10-of-the-Rivers-Harbors-Act/

USACE Jacksonville District Navigable Waters Lists

https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/other_permitting_factors/Jacksonville%20District%20Section%2010%20Waters.pdf

General Bridge Act of 1946

https://www.law.cornell.edu/uscode/text/33/525

Bridge Permit Application Guide

https://www.dco.uscg.mil/Portals/9/DCO%20Documents/5pw/Office%20of%20Bri

dge%20Programs/BPAG%20COMDTPUB%20P16591%203D_Sequential%20Clearanc e%20Final(July2016).pdf

33 CFR 329, (Navigable Waters)

http://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/CFR_References_2012/33CFR_329_DefNavWaters.pdf

33 CFR 114 (USCG Bridge Permit Program)

http://www.ecfr.gov/cgi-bin/textidx?c=ecfr&tpl=/ecfrbrowse/Title33/33cfr114_main_02.tpl

33 CFR 115 (USCG Bridge Locations and Clearances)

http://www.ecfr.gov/cgi-bin/text-

idx?c=ecfr&sid=b7ccee0efcf4f0b83e94c5eb24b27ba9&tpl=/ecfrbrowse/Title33/3 3cfr115_main_02.tpl

<u>USCG – Coast Guard Lead Projects ad Other Materials - Bridge Program Information</u> <u>Session Material</u>

https://www.dco.uscg.mil/Our-Organization/Assistant-Commandant-for-Prevention-Policy-CG-5P/Marine-Transportation-Systems-CG-5PW/Office-of-Bridge-Programs/PROJECTS/

Section 106 of the NHPA, as implemented by 36 CFR Part 800 (Protection of Historic

Properties)

http://www.ecfr.gov/cgi-bin/textidx?tpl=/ecfrbrowse/Title36/36cfr800 main 02.tpl

Nationwide Permit Information

https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/Nationwide-Permits/

USACE Jacksonville District Source Book

http://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/

SAJ-92 permit

https://usace.contentdm.oclc.org/utils/getfile/collection/p16021coll7/id/16255

USACE STATE PROGRAMMATIC GENERAL PERMIT (SPGP VI) STATE OF FLORIDA

State Programmatic General Permit VI | Florida Department of Environmental Protection

Waters of the United States

https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/juris_info/

33 CFR 325.2(e) (4) (Emergency Permitting)

<u>http://www.ecfr.gov/cgi-bin/text-</u> idx?SID=4a7f0c8dbf36efc99863012ef20eba22&mc=true&node=pt33.3.325&rgn=di v5#se33.3.325_12

Engineer Circular 1165-2-220

https://www.usace.army.mil/Missions/Civil-Works/Section408/

33 CFR 118 (USCG Lighting Requirements)

http://www.ecfr.gov/cgi-bin/textidx?SID=419a6dd0f1fa0fac9718129d55b92c76&node=pt33.1.118&rgn=div5

2015 Section 106 Programmatic Agreement

<u>https://fdotwww.blob.core.windows.net/sitefinity/docs/default-</u> <u>source/environment/pubs/section-106-pa-executed-version-1-via-email-15mar16-</u> (3).pdf?sfvrsn=a145ca30_2

ACHP e106 Form

https://www.achp.gov/e106-email-form

Chapter 253 F.S. (Public Lands and Property)

http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&URL=0 200-0299/0253/0253.html

Coastal Zone Management Act (CZMA)

https://coast.noaa.gov/czm/act/

Clean Water Act (33 U.S.C. 1341)

https://www.epa.gov/cwa-404/clean-water-act-section-401-certification

Section 4: State Processes

Chapter 62-330 F.A.C. (Environmental Resource Permitting)

http://www.dep.state.fl.us/water/wetlands/erp/rules/index.htm

Chapter 373, F.S. (Water Resources)

https://www.flsenate.gov/Laws/Statutes/2020/Chapter373

Water Management Districts

http://www.dep.state.fl.us/secretary/watman/default.htm

SWERP Applicant's Handbook , Volume 1

https://www.flrules.org/gateway/reference.asp?No=Ref-09390

SWERP Applicant's Handbook, Volume 2

https://floridadep.gov/water/water/content/water-resource-management-rules

FDEP Mangroves Page

https://floridadep.gov/water/submerged-lands-environmental-resourcescoordination/content/mangroves

Mangrove State Statutes pursuant to Section 409.9324, F.S.

http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&Searc h_String=&URL=0400-0499/0403/Sections/0403.9324.html

FDOT Drainage Manual

https://www.fdot.gov/roadway/Drainage/Manualsandhandbooks.shtm

FWC Website

http://myfwc.com/contact/fwc-staff/regional-offices/

2015 Section 106 Programmatic Agreement

https://fdotwww.blob.core.windows.net/sitefinity/docs/defaultsource/environment/pubs/section-106-pa-executed-version-1-via-email-15mar16-(3).pdf?sfvrsn=a145ca30_2

WMD Permitting Portals

http://www.flwaterpermits.com/

Florida Department of Environmental Protection Business Portal

http://www.fldepportal.com/go/

Chapter 253 F.S. (Public Lands and Property)

http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&URL=0 200-0299/0253/0253.html

Chapter 18-21 F.A.C. (Sovereignty Submerged Lands Management)

https://www.flrules.org/gateway/ChapterHome.asp?Chapter=18-21

Coastal Construction Control Line

http://ca.dep.state.fl.us/mapdirect/?focus=beaches

Chapter 62-330.051 F.A.C.

https://www.flrules.org/gateway/ruleno.asp?id=62-330.051

ROW Permit Information Manual

https://www.sfwmd.gov/sites/default/files/documents/row criteria manual.pdf

Florida Stormwater Erosion and Sediment Control Inspector's Manual

https://www.dep.state.fl.us/water/nonpoint/docs/erosion/erosion-inspectorsmanual.pdf

FDEP NPDES website

http://www.dep.state.fl.us/water/stormwater/npdes/permits_forms.htm

Notice of Intent to Use Generic Permit for Stormwater Discharge

https://floridadep.gov/sites/default/files/CGP%20NOI%2062-621.300 4b 0.pdf

Erosion and Sediment Control Manual

http://www.fdot.gov/roadway/drainage/files/Erosion-Sediment-Control.pdf

Section 5: Key Resource Impacts

Florida Department of Environmental Protection (FDEP) Mitigation Banks

https://floridadep.gov/water/submerged-lands-environmental-resourcescoordination/content/mitigation-and-mitigation-banking

<u>Regulatory In-lieu fee and Bank Information Tracking System (RIBITS)</u> <u>https://ribits.ops.usace.army.mil/ords/f?p=107:2</u>

Information for Planning and Conservation (IPaC)

https://ecos.fws.gov/ipac/

Florida's Endangered and Threatened Species

https://myfwc.com/media/1945/threatened-endangered-species.pdf

Essential Fish Habitat Mapper

https://www.fisheries.noaa.gov/resource/map/essential-fish-habitat-mapper

National Wetlands Inventory (NWI) Mapper

https://www.fws.gov/wetlands/Data/Mapper.html

Soil Survey Geographic Database

https://www.nrcs.usda.gov/resources/data-and-reports/web-soil-survey

University of Florida Aerial Photography

http://ufdc.ufl.edu/aerials

USACE 1987 Wetland Delineation Manual

http://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/Wetlands /1987WetlandDelineation.pdf

Preliminary Jurisdictional Wetland Determination Data Form – Atlantic and Gulf Coastal

<u>Plain Region</u>

https://www.sac.usace.army.mil/Portals/43/docs/regulatory/Digital_Atlantic_and_ Gulf Coastal Plain Wetland Datasheets Version 2.0 revised.pdf

<u>Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic</u> and Gulf Coastal Plain Region (Version 2.0)

http://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/Wetlands /AGCP_regsupV2.pdf

Chapter 62-340 F.A.C., (Delineation of the Landward Extent of Wetlands and Surface Waters)

https://www.flrules.org/gateway/ChapterHome.asp?Chapter=62-340

Petition for a Formal Determination of the Landward Extent of Wetlands and Other

Surface Waters

https://floridadep.gov/sites/default/files/62-330_201_1.pdf

National Wetland Plant List

NWPL - Home (army.mil)

Florida Association of Environmental Soil Scientists (FAESS)

http://faess.org/publications/

Land Boundary Information System http://www.labins.org/

Magnuson-Stevens Fishery Conservation and Management Act,

https://www.fisheries.noaa.gov/resource/document/magnuson-stevens-fisheryconservation-and-management-act

US Army Corps of Engineers Tribal Consultation Policy and Related Documents

https://usace.contentdm.oclc.org/utils/getfile/collection/p16021coll11/id/4241

Cultural Resource Management Handbook

https://www.fdot.gov/environment/pubs/cultmgmt/cultural-resources

404 (b)(1) Guidelines

https://www.epa.gov/sites/production/files/2015-03/documents/cwa_section404b1_guidelines_40cfr230_july2010.pdf

62-345 F.A.C. (Uniform Mitigation Assessment Method)

https://www.flrules.org/gateway/ChapterHome.asp?Chapter=62-345

FDEP UMAM Website

https://floridadep.gov/water/submerged-lands-environmental-resourcescoordination/content/uniform-mitigation-assessment

Wetland Assesment Technique for Environmental Review (WATER)

https://www.fpl.com/environment/pdf/wetland-assessment-review-manual.pdf

Wetland Rapid Assessment Procedure (WRAP)

https://www.sfwmd.gov/document/reg-001-wetland-rapid-assessmentprocedure-wrap-pdf-179kb

Section 7 of the Endangered Species Act

http://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endanger ed_species/ESA_Sect_7.pdf

USFWS and NMFS Endangered Species Act Consultation Handbook

https://media.fisheries.noaa.gov/dam-migration/f5-consultation-handbook.pdf

USACE Jacksonville District Source Book

http://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/

Statewide Programmatic Biological Opinion

http://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endanger ed_species/20151204_SWPBO.pdf

United States Army Corps of Engineers Jacksonville District's Programmatic Biological

<u>Opinion</u>

http://www.saj.usace.army.mil/Missions/Regulatory/Public-Notices/Article/1383940/final-programmatic-biological-opinion-jaxbo/

Executive Order 11990 (Protection of Wetlands)

https://www.epa.gov/cwa-404/protection-wetlands

SWERP Applicant's Handbook , Volume 1

https://www.flrules.org/gateway/reference.asp?No=Ref-09390

<u>Chapter 373.4137, Florida Statutes, (Mitigation Requirements for Specified Transportation</u> <u>Projects)</u>

http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&URL=0 300-0399/0373/Sections/0373.4137.html

Chapter 62-342 F.A.C. (Mitigation Banks)

https://www.flrules.org/gateway/ChapterHome.asp?Chapter=62-342

FDOT Environmental Mitigation Payment Processing Handbook

https://fdotwww.blob.core.windows.net/sitefinity/docs/defaultsource/environment/pubs/2022-mitigation-paymenthandbook_combined.pdf?sfvrsn=e7e0dea3_2

Compensatory Mitigation and the Mitigation Rule

http://www.saj.usace.army.mil/Portals/44/docs/regulatory/News/3_Mitigation.pdf

Compensatory Mitigation for Losses of Aquatic Resources

https://www.epa.gov/sites/production/files/2015-03/documents/2008_04_10_wetlands_wetlands_mitigation_final_rule_4_10_08.pdf

Northwest Florida WMD Mitigation Ledger

https://nwfwater.com/Water-Resources/Regional-Wetland-Mitigation-Program/Regional-Mitigation-Plan/

NMFS Section 7 Expedited Informal Consultation Template

https://www.fisheries.noaa.gov/southeast/consultations/expedited-informalconsultations

Imperiled Species Management Plan

https://myfwc.com/media/2030/imperiled-species-management-plan.pdf

FDOT Natural Resources Evaluation Outline and Guidance

https://fdotwww.blob.core.windows.net/sitefinity/docs/defaultsource/environment/pubs/protectedspecies/finalnreguidance082322.pdf?sfvrsn=dd265025_2

Section 6: Permit Acquisition from Start to Finish

FDOT Design Standard Scope of Services

http://www.fdot.gov/designsupport/scope/

Design Staff Hour Estimation Forms

http://www.fdot.gov/designsupport/scope/

US Army Corps of Engineers Tribal Consultation Policy and Related Documents

https://usace.contentdm.oclc.org/utils/getfile/collection/p16021coll11/id/4241

FDOT CADD MANUAL

http://www.fdot.gov/cadd/downloads/publications/CADDManual/default.shtm

Safe Access File Exchange Site

https://safe.apps.mil/security.phphttps://safe.amrdec.army.mil/safe

USACE Public Noitce, August 25, 2017

http://www.saj.usace.army.mil/Missions/Regulatory/Public-Notices/Article/1290332/corps-%20withdrawing-from-the-florida-joint-applicationprocess-effective-october/

FDEP ERP Program Forms

https://floridadep.gov/water/submerged-lands-environmental-resourcescoordination/content/forms-environmental-resource

FDEP Permitting Portals

http://www.flwaterpermits.com

FDEP NPDES Stormwater Program

https://floridadep.gov/water/stormwater

SWERP Applicant's Handbook, Volume 1

https://www.flrules.org/gateway/reference.asp?No=Ref-09390

Uniform Mitigation Assessment Method, Chapter 62-345, F.A.C.

https://www.flrules.org/gateway/ChapterHome.asp?Chapter=62-345

<u>Chapter 373.4137, Florida Statutes, (Mitigation Requirements for Specified Transportation</u> Projects)

http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&URL=0 300-0399/0373/Sections/0373.4137.html

Chapter 403 F.S. (Environmental Control)

https://floridadep.gov/air/air-business-planning/content/florida-statutes

Section 403.061(2), Florida Statutes

http://www.leg.state.fl.us/Statutes/index.cfm?App_mode=Display_Statute&Searc h_String=&URL=0400-0499/0403/Sections/0403.061.html

Engineering Form 4345 (Form ENG 4345)

http://www.spa.usace.army.mil/Portals/16/docs/civilworks/regulatory/Standard% 20Individual%20Permits/engform_4345_2014dec.pdf

40 CFR §§1500-1508

https://www.ecfr.gov/cgi-bin/textidx?gp=&SID=726901073e1aeaff33d7d0aad7d36442&mc=true&tpl=/ecfrbrowse/Ti tle40/40chapterV.tpl

National Hydrography Dataset (NHD)

https://www.usgs.gov/national-hydrography/national-hydrography-dataset

404 (b)(1) Guidelines

https://www.epa.gov/sites/production/files/2015-03/documents/cwa_section404b1_guidelines_40cfr230_july2010.pdf

Compensatory Mitigation for Losses of Aquatic Resources

https://www.gpo.gov/fdsys/pkg/CFR-2012-title33-vol3/xml/CFR-2012-title33-vol3-part332.xml

Setback Guidance for Structures Along Certain Federal Channels

http://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/other_per mitting_factors/SetbackGuidance-final_Revised_Dec2013.pdf

Bridge Permit Application Guide

https://www.dco.uscg.mil/Portals/9/DCO%20Documents/5pw/Office%20of%20Bri dge%20Programs/BPAG%20COMDTPUB%20P16591%203D_Sequential%20Clearanc e%20Final(July2016).pdf

USCG Eighth District

https://www.uscg.mil/d8/

Notice of Intent to Use Generic Permit for Stormwater Discharge

https://floridadep.gov/sites/default/files/CGP%20NOI%2062-621.300_4b_0.pdf

FDEP Business Portal

http://www.fldepportal.com/go/

FDEP's Permitting Website

http://www.dep.state.fl.us/water/wetlands/erp/forms.htm#surfacewater

USACE (Jacksonville District) Public Notice Website

http://www.saj.usace.army.mil/Missions/Regulatory/Public-Notices/

Permit Transmittal Memorandum, Form No. 650-040-01

https://pdl.fdot.gov/

FDOT's File Transfer Protocol (FTP)

http://www.fdot.gov/procurement/FTP%20Sites.shtm

Construction Project Administration Manual (CPAM)

http://www.fdot.gov/construction/manuals/cpam/CPAMManual.shtm

PSEE Website

https://fdotxwp02.dot.state.fl.us/ProjectSuite/Pages/Login/LogIn.aspx

<u>Procedure No. 650-000-003, Project Commitment Tracking</u> https://pdl.fdot.gov/

<u>SWEPT</u>

https://www.fla-etat.org/est/swept/

Section 7: Construction and Maintenance Compliance, Enforcement, and Permit Expiration

33 CFR Part 326 (USACE Enforcement)

https://www.gpo.gov/fdsys/pkg/CFR-2013-title33-vol3/pdf/CFR-2013-title33-vol3-part326.pdf

<u>NPDES Stormwater Notice of Termination</u> https://floridadep.gov/sites/default/files/62-621.300 6 0.pdf

FDEP Business Portal

http://www.fldepportal.com/go/

<u>Procedure No. 650-000-003, Project Commitment Tracking</u> <u>https://pdl.fdot.gov/</u>

APPENDIX 1: LISTED SPECIES AND SPECIALTY PERMITS MATRIX TABLES

APPENDIX 2: LISTED SPECIES

APPENDIX 3: SPECIALTY PERMITS

LISTED SPECIES AND SPECIALTY PERMITS MATRIX TABLES

Listed Species Occurrences by District									
Appendix	Species	D1	D2	D3	D4	D5	D6	D7	FTE
2a	Bald Eagle								
2b	Florida Burrowing Owl								
2c	Eastern Indigo Snake								
2d	Gopher Tortoise								
2e	Mangroves								
2f	West Indian Manatee								
2g	Osprey Nest Relocations								
2h	Listed Plants								
2i	Red-Cockaded Woodpecker								
2j	Sea Turtles								
2k	Smalltooth Sawfish								
21	Wood Stork								
2m	Audubon's Crested Caracara								
2n	Everglade Snail Kite								
2o	Florida Scrub Jay								
2p	Florida Bonneted Bat								
2q	Florida Panther								
2r	Sand Skink								
2s	Corals								
2t	Frosted & Reticulated Flatwoods Salamanders								
2u	Gulf Sturgeon								
2v	Freshwater Mussels (7 Gulf Coast Mussel Group)								
2v	Freshwater Mussels (8 Gulf Coast Mussel Group)								
2v	Suwannee Moccasinshell								
2w	Panama City Crawfish								

NOTE: Shading indicates those Districts where species coordination and consultation is applicable.

	Speciality Permits								
Appendix	Permit	D1	D2	D3	D4	D5	D6	D7	FTE
3a	Programmatic Agreements								
3b	Regional General Permits								
3c	Consumptive Water Use Permitting								
3d	Wetland Mitigation								
	Coastal Construction Control Line								
3e	Permitting								
3f	Section 408 Review and Permission								
3g	Right-of-Way Occupancy Permit								
3h	Water Control Districts								
	Florida Keys National Marine Santuary								
3i	Permitting								
3ј	Broward County Permitting								
3k	Hillsborough County Permitting								
31	Leon County Permitting								
3m	Miami-Dade County Permitting								
3n	Palm Beach County Permitting								

NOTE: Shading indicates those Districts where specialty permits are applicable.

LISTED SPECIES

APPENDIX 2a Bald Eagle

Bald Eagle Haliaeetus leucocephalus



STATUS:The bald eagle has been delisted at the federal and state level but is protected by the Bald and Golde Protection Act and the U.S. Migratory Bird Treaty Act	
AGENCY:	U.S. Fish & Wildlife Service (USFWS), Florida Fish & Wildlife Conservation Commission (FWC)
FDOT DISTRICTS:	All Districts and the Florida's Turnpike Enterprise (Enterprise)
HABITAT:	Tall trees near waterbodies – coastal, bays, rivers, and lakes
PRIMARY ISSUES:	Impacts within protection zone of 660 feet of nest
SEASONAL ISSUES:	Active nest during nesting season (October 1st - May 15th)

1. CONSERVATION STATUS

Federal Status: In 2007, the bald eagle was removed from the federal Endangered Species Act (ESA).

State Status: In 2008, the bald eagle was removed from FWC's Imperiled Species List.

Other Applicable Laws: Protection for the bald eagle continues under the <u>Bald and Golden Eagle Protection Act</u> (50 CFR 22.23 Depredation, 50 CFR 22.26 Eagle Incidental Take (Disturbance), & 50 CFR 22.27 Eagle Nest Take), the U.S. Migratory Bird Treaty Act, and the State Eagle Rule (68A-16.002, F.A.C.).

2. ECOLOGY & MANAGEMENT

Description: The bald eagle is a large raptor, with wingspans of around 7 feet. Adults have dark brown bodies, with a white tail and a distinguishing white head and yellow beak. Juveniles have mottled brown bodies, wings, and tails. Other than a size difference (females larger than males) sexes are similar in appearance.

Florida Distribution: The bald eagle can be found throughout Florida (all FDOT Districts).

Suitable Habitat: Bald eagles are commonly found in areas close to bodies of water that adequately provide sources of food (fish and other smaller birds including waterfowl or wading birds). Bald eagles will nest in tall trees with clear views of their surrounding area. The majority of bald eagle nests are in native pines such as longleaf pine (*Pinus palustris*) and slash pine (*Pinus elliottii*). Eagles in Florida have also been documented nesting in cypress (*Taxodium* spp.), mangroves (*Avicennia germinans* and *Rhizophora mangle*), and manufactured structures.

Identification of Suitable Habitat: A review of Audubon's Eagle Nest Locator, will help determine if a project will have the potential to impact a nest due to land clearing, tree removal or construction activity. There may be undocumented nests within a project area, so surveys should still be done, and any new or undocumented nests should be reported. To use the bald eagle nest locator, go to <u>https://cbop.audubon.org/conservation/about-eaglewatch-program</u>. **Note** that the Nest Locator is not an exacting tool and can be off by as much as 1/10 mile. All nests should be field verified to determine specific distances to your project activities.

Behavior and Activity to Note: The probability that a pair of bald eagles will abandon their nest increases with the intensity and proximity of human activities to their nest and decreases with the time and energy the adult eagles have invested in the eggs or young and to what extent the adult birds may habituate to human activities.

Protection and Management Plans: Bald eagles are federally protected, under the U.S. Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. At the state level, bald eagles are protected under the Eagle Rule (68A-16.002, F.A.C.). There are management plans at both the federal and state levels. The USFWS released the National Bald Eagle Management Guidelines in May of 2007, and FWC published the Bald Eagle Management Plan in 2008 and the Species Action Plan for the Bald Eagle in November of 2017.

Designated Protected Area or Critical Habitat: No designated protected area or Critical Habitat. Protection zones are required for active bald eagle nests.

Survey Protocol and Requirements: No survey protocol; however, FWC does provide guidelines on eagle watching etiquette at: https://myfwc.com/media/1779/eagle-etiquette.pdf.

3. AGENCY COORDINATION (FEDERAL)

Responsible Agency(s): The USFWS and FWC are both responsible for the management of this species.

Type of Coordination: If an eagle or eagle nest may be affected by your project it may be necessary to obtain a federal (USFWS) eagle permit. To learn more, go to the <u>USFWS Southeast Region eagle website</u>. If you need additional technical assistance, please contact the <u>USFWS Bald Eagle Biologist</u>. For questions regarding the federal eagle permit application process, contact the <u>USFWS Eagle Permit Coordinator</u>. Coordination with the USFWS is necessary to determine if a permit is required when proposed activities exist within 660 feet of a bald eagle's nest.

Demonstrate Avoidance, Minimization, and Mitigation: Avoidance and minimization must be demonstrated to maintain a buffer of at least 660 feet between project activities and the nest, restrict any clearing, external construction or landscaping activities to outside the nesting season (outside the nesting season Oct 1- May 15), and; maintain established landscape buffers that screen the activity from the nest. To learn more, review the Bald Eagle Monitoring Guidelines at:

https://www.fws.gov/sites/default/files/documents/national-bald-eagle-management-guidelines 0.pdf

Tools for Coordination: In 2016, USFWS published the Final Programmatic Environmental Impact Statement for the Eagle Rule Revision. This document provides a preferred alternative for updating permit regulations and regulatory compliance for incidental takes of bald eagles.

Special Provisions, or Standard Protection Measures: The FDOT special provision for bald eagles (SP0070104-2) should be included in the final specifications package. The 660-foot nesting buffer should be shown on project design plans and labelled accordingly.

General Timeframes for Consultation and Permitting: Consultation timeframes depend upon the level of proposed impacts, whether the nest is active or inactive, and distance of proposed work activity to a bald eagle's nest.

4. PERMITTING

Prohibited Activities: The U.S. Migratory Bird Treaty Act and state wildlife code prohibits the take of birds, nests, or eggs. No activity may injure, harm, harass or kill this species.

Activities Authorized by Permit: Permits can authorize incidental takes caused by public activities such as infrastructure development and maintenance and roadway construction. However, all efforts must be made to avoid disturbance and/or impact to eagles and their nests.

Note that an eagle nest removal permit is needed to remove or destroy an inactive eagle's nest, and the <u>USFWS Eagle Management</u> website should be consulted for guidance on proposed projects within 660 feet of the nest.

Note that since 2017, state permits are no longer needed for activities with the potential to take or disturb bald eagles or nests. Under a revision of the state's Bald Eagle Rule (68A-16.002, F.A.C.), only a federal permit from USFWS is required. Two federal permitting regulations exist under the Bald and Golden Eagle Protection Act.

- 1. 50 CFR § 22.26 provides permits to take or disturb bald eagles when associated with but not the purpose of the activity and cannot practicably be avoided.
- 2. 50 CFR § 22.27 provides permits for removing eagle nests.

Permitting information, including applications and forms, can be found on the USFWS Southeast Region eagle website. Permitting questions can be directed to the USFWS Eagle Permit Coordinator at <u>Eagle Permit Coordinator</u>.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Bald Eagle commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review all Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to bald eagle. Make sure that construction personnel have copies.

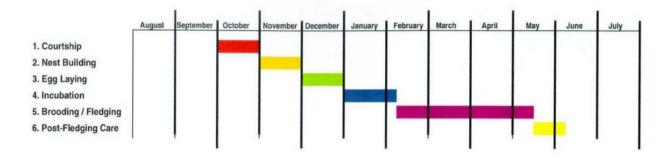
Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one-year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: Construction activities more than 660 feet from a nest may be conducted, at any time of the year, with no coordination required with the USFWS or FWC.

Seasonal Restrictions: Based on the special provision, no construction activities can occur within 330 feet of any active nest during nesting season (October 1st -May 15th) or until nestlings fledge. Construction activities between 330 and 660 feet from an active nest during nesting season must be conducted under the direction of the USFWS as an eagle take permit may be necessary to avoid a potential violation.

Nesting Chronology of Bald Eagles in Florida (typical)



7. RESOURCES

Web Resources*

- USFWS Bald Eagle Species Profile
 <u>https://ecos.fws.gov/ecp/species/1626</u>
- FWC's Bald Eagle Species Profile
 <u>http://myfwc.com/wildlifehabitats/managed/bald-eagle/</u>
- USFWS Permitting Applications Eagles https://www.fws.gov/southeast/our-services/permits/eagles/
- USFWS Eagle Nest Take Application <u>https://fwsepermits.servicenowservices.com/fws?id=fws_kb_view&sys_id=4b14a5691b9f10104fa520eae54bcba6</u>
- USFWS Bald Eagle Permitting Website <u>https://www.fws.gov/program/eagle-management/eagle-permits</u>
- USFWS Final Programmatic Impact Statement for the Eagle Rule Revision
 <u>https://www.fws.gov/migratorybirds/pdf/management/FINAL-PEIS-Permits-to-Incidentally-Take-Eagles.pdf</u>
- USFWS, Bald Eagle Species Plan, 2017 https://myfwc.com/media/1778/baldeaglesap.pdf

Lead Specialist(s) for Agencies:

- Eagle Nest Database Administrator: <u>baldeagle@myfwc.com</u>.
- USFWS Eagle Permit Coordinator: <u>resee_collins@fws.gov</u>
- For technical assistance: Ulgonda Kirkpatrick, USFWS Bald Eagle Biologist, <u>ulgonda_kirkpatrick@fws.gov</u> or (352) 406-6780

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

Example of Eagle Nest Figure



APPENDIX 2b Florida Burrowing Owl

Burrowing Owl Athene cunicularia



STATUS:	State, threatened; Federally protected under the U.S. Migratory Bird Treaty Act
AGENCY:	Florida Fish and Wildlife Conservation Commission (FWC)
FDOT DISTRICTS:	All Districts and the Florida's Turnpike Enterprise (Enterprise)
HABITAT:	Upland habitats
PRIMARY ISSUES:	Work near or removal of a burrowing owl burrow
SEASONAL ISSUES:	Seasonal restrictions for nesting

1. CONSERVATION STATUS

Federal Status: The Florida burrowing owl is not federally listed; however, they are protected under the U.S. Migratory Bird Treaty Act.

State Status: The burrowing owl is state listed as *threatened* by FWC and is protected under state law, <u>68A-27</u> FL Administrative Code (F.A.C.).

Other Applicable Laws: Burrowing owls may use state listed Gopher tortoise (*Gopherus polyphemus*) burrows. Tortoises and their burrows are protected under state law, <u>Chapter 68A - 27.003 F.A.C</u>.

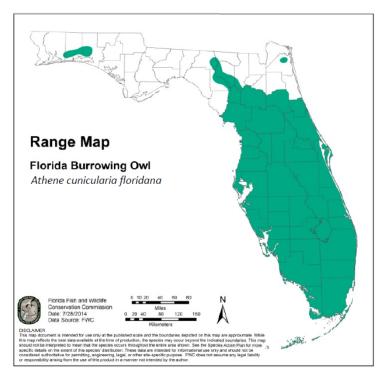
2. ECOLOGY & MANAGEMENT

Description: The burrowing owl is one of the smallest owls in Florida. It can reach a length of nine inches with a wingspan of 21 inches. Burrowing owls have brown dorsal feathers with patches of white spots, and a white underside with brown bar-shaped spots. They also have large yellow eyes and a white chin.

Florida Distribution: The Florida burrowing owl is a distinct subspecies from the other burrowing owl species found west of the Mississippi river. They can be found throughout the state, though their distribution in the panhandle region is scattered and limited.

Suitable Habitat: Burrowing owls inhabit open uplands that have little understory vegetation. They can be found in natural and urban areas along canals and alongside roadways. They also inhabit vacant lots, airports, and agricultural land.

Identification of Suitable Habitat: Any upland habitat that has little understory vegetation has the potential to be suitable habitat and should be surveyed for burrows. Burrowing owls use a primary burrow with one of more satellite burrows for breeding, sheltering, and escape from predators. Burrowing owls can dig their own burrows, which are typically 5 to 10 feet long and can be excavated in as little as 2 days, or utilize existing gopher tortoise burrows, armadillo burrows, or man-made structures. Burrowing owls use burrows year-round, for roosting during the winter and for raising young during the breeding season.



Behavior and Activity to Note: The burrowing owl can be found at the edge of their burrows or on a nearby post. They are active during both day and night and feed on insects, snakes, frogs, lizards, birds, and rodents. They ungulate while in flight and can also hover, which is often performed while foraging. Most often burrowing owls are found in a single breeding pair or loose colonies in open habitats that offer low groundcover.

Protection and Management Plans: An FWC Species <u>Action Plan</u> has been developed with the goal of improving the conservation status of the burrowing owl.

Designated Protection Area or Critical Habitat: The burrowing owl is protected state-wide. No specified Consultation or Focal Zones are established. Areas within 10-feet of an inactive burrow or 33-feet of an active burrow during nesting season (February 15 to July 10) require coordination with FWC.

Survey Protocol and Requirements: FWC burrowing owl survey protocols can found at:

<u>https://myfwc.com/media/2028/floridaburrowingowlguidelines-2018.pdf</u>. When surveying note that burrow entrances range from 3 to 8 inches in diameter. Established burrows may already be marked with white PVC pipes or T-perches placed for the birds.

3. AGENCY COORDINATION (STATE)

Responsible Agency(s): The burrowing owl is protected by FWC as a *threatened* species. They are also protected by the U.S. Fish and Wildlife Service (USFWS) through the U.S. Migratory Bird Treaty Act.

Type of Coordination: As a state listed species, consultation occurs with FWC if any impacts to owls or their burrows is anticipated. Permits are required prior to construction for incidental take. If impacts to the species are known prior to construction, burrowing owls can be relocated through an incidental take permit issued by FWC, and mitigation is required. More information can be found in the <u>Species Conservation Measures and Permitting Guidelines</u>.

Demonstrate Avoidance, Minimization, and Mitigation: Avoidance strategies may include moving project limits to avoid burrowing owl habitat. Working around an owl burrow is often the best scenario for the owls and the contractor because no state permits are required, and construction can take place if a 10-foot buffer zone is maintained for nests outside of the breeding season (inactive nests) and a 33-foot buffer for active nests during the breeding season (February 15 to July 10, though owls can breed earlier or later). To minimize the adverse impacts to the species when a nest is removed, the contractor is encouraged to place a "starter burrow" at a new location within the property. Additional options and criteria to determine which option is appropriate can be found in the <u>Species Conservation Measures and Permitting Guidelines</u>.

Special Provisions, or Standard Protection Measures: No special provisions; however, FWC does have *Recommended Conservation Practices* for borrowing owl listed within its <u>Species Conservation Measures and Permitting Guidelines</u>.

General Timeframes for Consultation and Permitting: Early consultation is highly recommended if impacts are anticipated to the burrowing owl. Note that avoidance of the burrow is often the best scenario for the owls and the contractor because no state permits are required.

4. PERMITTING

Prohibited Activities: Burrowing owls use their burrows year-round, so impacts to burrows can result in take via harassment by disrupting breeding and sheltering activities. Collapsing or blocking of burrows can result in harm if burrowing owls are injured or killed or if eggs are destroyed. Disturbance near burrows during the breeding season can disrupting breeding. Burrowing owls require sufficient foraging habitat around their burrows, and reducing available habitat can constitute take.

Exemptions: Minor projects that do not occur within 10-feet of a burrow outside of nesting season or within 33-feet of a burrow in the nesting season (February 15 to July 10, though owls can breed earlier or later) do not require a permit.

Activities Authorized by Permit: FWC will permit the removal of an active burrow, but the applicant will have to wait until the end of the nesting season before construction can begin. Burrowing owl nesting season is from February 15 through July 10. Note that even if no burrowing owls are observed at a burrow, the burrow may not be removed without a permit issued by the FWC. If an active nest needs to be relocated, FWC may issue a take permit for the owl burrow only as a last resort. FWC typically issues a permit only for collapse of burrows that do not contain eggs or flightless young, except in situations involving health and human safety. The applicant must demonstrate that all reasonable alternatives have been reviewed.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review of Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to burrowing owl. Make sure that construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal

violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: In coordination with FDOT's Office of Environmental Management (OEM), reach out to your local FWC representative. Field visits are needed to determine whether burrows are found within your project area.

Seasonal Restrictions: Projects occurring during the burrowing owl nesting season (February 15 to July 10) must get a permit if work activities are anticipated within a 33-foot buffer from the burrow, whereas the buffer is only 10-feet from the burrow outside of the nesting season.

Survey Restrictions: FWC requires that all burrowing owl surveys be conducted by an FWC certified agent that has the following level of expertise:

- 10 hours observing burrowing owl behavior in the field
- Documented experience using a burrow video-scope
- Documentation of excavating 10 burrows

To learn more, go to: Species Conservation Measures and Permitting Guidelines.

7. **RESOURCES**

Web Resources*

- FWC's Burrowing Owl Guidelines <u>https://myfwc.com/wildlife/abitats/wildlife/species-guidelines/</u>
- FWC's Burrowing Owl Page
 <u>https://myfwc.com/wildlifehabitats/profiles/birds/owls/burrowing-owl/</u>
- FWC's Florida Burrowing Owl Biological Status Review Report https://myfwc.com/media/1959/fl-burrowing-owl-bsr.pdf
- FWC's Florida Burrowing Owl Biological Status Review Supplemental Information https://myfwc.com/media/2163/burrowing-owl-supplemental-information.pdf
- FWC's Florida's Breeding Bird Atlas https://myfwc.com/media/19656/bba_buow.pdf
- FWC's Burrowing Owl Species Conservation Measures and Permitting Guidelines https://mvfwc.com/media/2028/floridaburrowingowlguidelines-2018.pdf
- FWC's Burrowing Owl Species Action Plan
 <u>https://myfwc.com/media/2113/burrowing-owl-species-action-plan-final-draft.pdf</u>

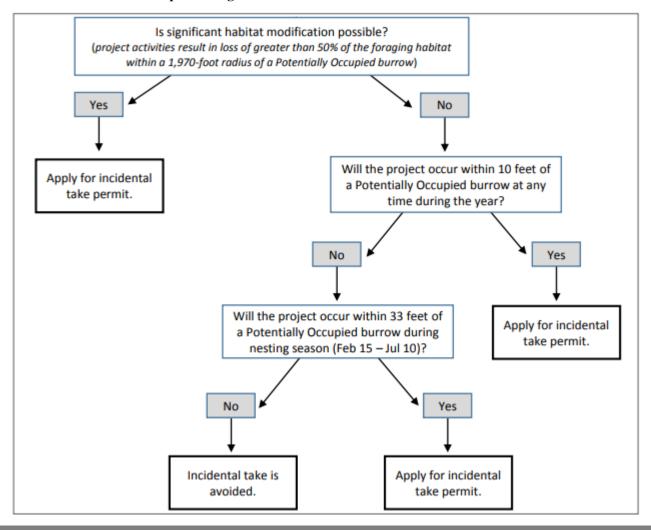
Lead Specialist(s) for Agencies: Please contact the FWC's Protected Species Permitting Office with questions or for further assistance (<u>WildlifePermits@myFWC.com</u>, (850) 921-5990).

Publications:

- Haug, E. A., B. A. Millsap and M. S. Martell. 1993. Burrowing Owl (*Athene cunicularia*), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America Online/
- Millsap, B.A., 1996. Florida Burrowing Owl. Pages 579-587 in J.A. Rodgers, Jr., H.W. Kale II, and H.T. Smith (Eds.). Rare and endangered biota of Florida, Vol. V: Birds. University Press of Florida, Gainesville, FL.

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

This flow chart from FWC's *Burrowing Owl Species Conservation Measures and Permitting Guidelines* provides guidance for avoidance of incidental take.



APPENDIX 2c Eastern Indigo Snake

Eastern Indigo Snake Drymarchon couperi



STATUS:	Federally Listed, Threatened
AGENCY:	United States Fish and Wildlife Service (USFWS)
FDOT DISTRICTS:	All Districts & Florida's Turnpike Enterprise (Enterprise); including Upper & Lower Keys; rare in panhandle
HABITAT:	Variety throughout the state
PRIMARY ISSUES:	Consultation for species impacts
SEASONAL ISSUES:	No seasonal restrictions

1. CONSERVATION STATUS

Federal Status: The Eastern indigo snake is listed as a threatened species under the Endangered Species Act (ESA).

State Status: The Eastern indigo snake was granted full protection in Florida in 1971. Today, in accordance with Chapter 68A-27, F.A.C., the Eastern indigo snake is state listed as *threatened* pursuant to the ESA federal designation.

Other Applicable Laws: The Eastern indigo snake is a considered a commensal of the gopher tortoise and is known to utilize burrows for refuge, breeding, feeding, and nesting. The decline of gopher tortoises is a factor in the eastern indigo snakes being listed as a federally *threatened* species under the Endangered Species Act (ESA). Therefore, the excavation guidance and Standard Protection Measures listed within the Florida Fish and Wildlife Conservation Commission's (FWC) <u>Gopher Tortoise Permitting</u> <u>Guidelines</u> should be followed.

2. ECOLOGY & MANAGEMENT

Description: One of the largest non-venomous snakes in North America, reaching up to 8-feet. Their common name derives from the glossy, blue-black color of their scales above and uniformly slate blue below. They can have orange to reddish coloration in the throat area, yet some specimens have cream coloration on the throat. These snakes are not typically aggressive and rarely bite; however, they should NOT be handled. Indigo snakes feed mainly upon other snakes, turtles, mammals, frogs, birds, and lizards. They are known to feed on venomous snakes.

Florida Distribution: The indigo snake is found throughout Florida, less abundant in the panhandle.

Suitable Habitat: In peninsular Florida a wide variety of habitat types are preferred including uplands (pine flatwoods, hardwood forests, moist hammocks, scrub, sandhill) and wetlands (wet prairies, cypress swamps, mangroves), and agricultural areas. In north Florida the indigo snake typically occupies open habitat with sandy well-drained soils. They can be found in palmetto stands, open pine forests, sandhills, longleaf pine stands, and turkey oak forests. Eastern indigo snakes will seek shelter inside gopher tortoise burrows and other below- and above-ground refugia, such as other animal burrows, stumps, roots, and debris piles.



Identification of Suitable Habitat: Suitable habitat is assumed to exist within projects containing terrestrial and freshwater wetland habitat. In cases where gopher tortoise burrows have been identified the likelihood of suitability increases. The likelihood of presence diminishes within urbanized metropolitan areas with no natural lands.

Behavior and Activity to Note: Throughout their range, Eastern indigo snakes use gopher tortoise burrows for refuge, breeding, feeding, and nesting. They depend on gopher tortoise burrows in their northern range for shelter during the winter months. Adult Eastern indigo snakes travel long distances and utilize a variety of habitat types.

Protection and Management Plans: The USFWS published its *Eastern Indigo Snake Recovery Plan* in 1982. The objective of the Recovery Plan is ensuring indigo snake populations exist and are reproducing and protected where suitable habitat remains within the historic range of the species.

Protection Area or Critical Habitat: There is no designated critical habitat for the Eastern indigo snake.

Survey Protocol and Requirements: The USFWS has developed survey protocol for <u>northern and central Florida</u>. The survey protocol is to provide a tool to improve the review of permit applications and proposed land clearing activities for potential effects on the Eastern indigo snake.

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): Under section 7(a)(2) of the ESA, USFWS consults with federal agencies proposing actions that may affect the eastern indigo snake. In addition, FWC provides comments regarding potential impacts to Eastern indigo snake to Florida Department of Environmental Protection (FDEP) and Water Management Districts (WMD) under the authority of Chapter 20.331 Florida Statutes.

Federal Nexus for Consultation: Section 7(a)(2) of the ESA requires that all federal agencies consult with USFWS to ensure that any action authorized, funded, or carried out by the agency is not likely to jeopardize the continued existence of the Eastern indigo snake.

Type of Consultation: The type of consultation, informal and formal, will depend on results of FDOT's analysis of whether the proposed project will have an adverse effect on the species. If a proposed federal action is likely to adversely affect (*May affect*), the Eastern indigo snake, then formal consultation is required. For *May affect, but not likely to adversely affect* an informal consultation would be required.

Demonstrate Avoidance, Minimization, and Mitigation: FDOT must demonstrate to USFWS that it is making all efforts to avoid and minimize impacts to the Eastern indigo snake.

Tool for Section 7 ESA Consultation: The USFWS has developed an *Eastern Indigo Snake Programmatic Effect Determination Key* for <u>south</u> and <u>north</u> Florida. The purpose of the Key is to assist the federal action agency in making appropriate effects determinations under section 7 of the ESA and streamline informal consultation when the project action can be walked through the Key. If the use of the Key results in a determination of *no effect* or *not likely to adversely affect* (NLAA), the USFWS will concur with this determination and no additional correspondence will be necessary.

Special Provisions, or Standard Protection Measures: The USFWS has developed <u>Standard Protection Measures for the Eastern</u> <u>Indigo Snake</u>. In addition, FDOT has <u>Special Provisions</u> when Eastern indigo snake are known to be found within the proposed project area.

General Timeframes for Consultation and Permitting: Early coordination is recommended if impacts are anticipated as Formal Consultation can take as long as 135 days.

4. PERMITTING

Prohibited Activities: Only individuals currently authorized through an issued Incidental Take Statement in association with a USFWS Biological Opinion, or by a Section 10(a)(1)(A) permit issued by the USFWS, to handle an eastern indigo snake are allowed to do so.

Activities Authorized by Permit: Permit authorization is based on the proposed project location and description; the potential effects to the Eastern indigo snake and any measures (such as project components, standard construction precautions, or special conditions included in the authorization) to avoid or minimize those effects.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review of Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to Eastern indigo snake. Make sure construction personnel has copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60-days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal

violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: The USFWS typically will concur with FDOT when the Department's individual projects receives a *not likely to adversely affect* (NLAA) determination from the Species Determination Key and FDOT commits to following USFWS's <u>Standard Protection</u> <u>Measures for the Eastern Indigo Snake</u> during project site preparation and project construction.

Seasonal Restrictions: No seasonal restrictions.

Survey Restrictions: Follow the USFWS survey protocol for northern and central Florida.

7. **RESOURCES**

Web Resources*

- USFWS Eastern Indigo Snake Survey Protocol North and Central Florida <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/Indigo/20110930_NFESO_eas</u> <u>tern_indigo_snake_survey_protocol.pdf</u>
- USFWS Eastern Indigo Snake Brochure <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/Indigo/20130812_EIS%20Bro</u> <u>chure_final.pdf</u>
- USFWS Eastern Indigo Snake Poster <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/Indigo/20130812_EIS%20Pos</u> <u>ter_final.pdf</u>
- USFWS Eastern Indigo Snake Protection Measures <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/Indigo/20130812_EIS%20Sta</u> <u>ndard%20Protection%20Measures_final.pdf</u>
- USFWS Eastern Indigo Snake Key Northern Florida (2013) <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/Indigo/20130813_ltr_Update</u> <u>%20addendum_2010%20COE%20Programmatic%20EIS%20Key.pdf?ver=2013-08-20-095421-223</u>
- USFWS Eastern Indigo Snake Key Southern Florida (2017) <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/Indigo/20170801_letter_Service%20to%20Corps_Revised%20EIS%20Key.pdf?ver=2017-08-03-145030-510</u>
- FWC Eastern Indigo Snake Profile <u>https://myfwc.com/wildlifehabitats/profiles/reptiles/snakes/eastern-indigo-snake/</u>
- FNAI Eastern Indigo Snake Profile https://www.fnai.org/PDFs/FieldGuides/Drymarchon_couperi.pdf
- UF Black Snake Identification Document <u>http://edis.ifas.ufl.edu/uw251</u>
- Recognizing Florida's Venomous Snakes <u>http://ufwildlife.ifas.ufl.edu/pdfs/KnowFLVenomousSnakes.pdf</u>
- USFWS Eastern Indigo Snake Recovery Plan https://ecos.fws.gov/docs/recovery_plan/Eastern%20Indigo%20Snake%20Recovery%20Plan%20Revision.pdf
- Eastern Indigo Snake Species Status Assessment (SSA) Report https://ecos.fws.gov/ServCat/DownloadFile/157073
- USFWS Profile on Eastern Indigo Snake https://www.fws.gov/species/eastern-indigo-snake-drymarchon-couperi

USFWS Eastern Indigo Snake Five Year Review
 <u>https://ecos.fws.gov/docs/five_year_review/doc1910.pdf</u>

Lead Specialist(s) for Agencies:

Contact the USFWS Florida Ecological Services Office if a live or dead eastern indigo snake is encountered: 352-448-9151

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

Variability of the coloration on the chin and side of head. Photos by Dirk Stevenson, <u>Species Status Assessment (SSA) Report for the Eastern Indigo Snake</u>.



APPENDIX 2d Gopher Tortoise

Gopher Tortoise Gopher Polyphemus



STATUS: State Listed, <i>Threatened</i> ; Federal Candidate Species		
AGENCY: Florida Fish & Wildlife Conservation Commission (FWC)		
FDOT DISTRICTS:	All Districts and the Florida's Turnpike Enterprise (Enterprise); Not found within the Everglades or the Keys	
HABITAT:	Well-drained uplands habitats - scrub, dry hammock, pine flatwoods, dry prairie, coastal grasslands, and dunes	
PRIMARY ISSUES:	Survey and permit 90 days prior to construction/utility activities	
SEASONAL ISSUES:	Cannot relocate when temperatures dip below 50° Fahrenheit at the work site; temperatures need to be above 50° for 3 days for release at the approved recipient site	

1. CONSERVATION STATUS

Federal Status: The gopher tortoise is considered a candidate species under the Endangered Species Act (ESA) and therefore does not receive protection under the ESA. However, United States Fish and Wildlife Service (USFWS) encourages cooperative conservation efforts because they are a species that may warrant future protection.

State Status: The gopher tortoise is listed as *threatened*. Both the tortoise and its burrow are protected under state law, Chapter 68A - 27.003, FL Administrative Code (F.A.C).

Other Applicable Laws: Gopher tortoise burrows provide refuge for more than more than 350 species (called "commensals"). These commensals species include the Florida mouse, Eastern indigo snake, Florida pine snake, Eastern diamondback rattlesnake, and gopher frog. Note that some commensals are also state or federally listed. A preliminary "*may affect*" determination is made for the federally listed Eastern indigo snake when a project impacts 25 or more burrows as per the <u>USFWS Eastern Indigo Snake (N. Florida)</u> <u>Programmatic Effect Determination Key</u>.

2. ECOLOGY & MANAGEMENT

Description: The gopher tortoise is a terrestrial turtle ranging from 5-12 inches in length. It has stumpy, elephantine hind feet and shovel-like forelimbs adapted for digging. The shell is oblong and generally tan in coloration. The entrances of gopher tortoise burrows are identifiable by their half-moon shape, flat bottom, and dirt apron.

Florida Distribution: Gopher tortoises can be found state-wide except the Everglades and Keys. All FDOT districts may encounter gopher tortoise issues when suitable upland habitat is present.

Suitable Habitat: Gopher tortoises typically live in well-drained upland habitat with sandy soils generally associated with pine and oak sandhills. They also live in scrub, dry hammock, pine flatwoods, dry prairie, coastal grasslands and dunes, mixed hardwood-pine communities, and a variety of habitats that have been disturbed or altered by man, such as power line rights-of-way, and along roadsides.

Identification of Suitable Habitat: A desktop review of FDOT's Environmental Screening Tool (EST), which includes wildlife occurrence databases, Water Management District and FWC land use layers, soils, and public lands layers, will inform a preliminary determination of whether gopher tortoises may occur within the project corridor. FWC may also provide firsthand or additional resource documentation of tortoise populations within the vicinity of the project. If suitable habitat exists, a field survey is recommended.

Behavior and Activity to Note: Above-ground activity for tortoises is greatly reduced during cold weather, with tortoises in northern Florida remaining below ground for months. This can present challenges with permit-approved capture efforts as tortoises cannot be relocated when temperatures at the work site are forecasted by the National Weather Service (<u>https://www.weather.gov/</u>) to go below 50° Fahrenheit. In addition, a three-day window (72 hours) of milder overnight temperatures is required to allow the relocated tortoise(s) to settle into the recipient site and to reduce the chance of cold-related stress or mortality. If questions coordinate with FWC and your contracted recipient site.

Protection and Management Plans: A <u>Gopher Tortoise Management Plan</u> has been created in response to the continuing decline of the species and presents a suite of actions to achieve conservation objectives. These actions are organized into broad sections:

regulations, permitting, local government coordination, law enforcement, habitat protection, habitat management, population management, disease management, incentives, monitoring, education and outreach, and research.

Designated Protection Area or Critical Habitat: There is no Critical Habitat designated for the gopher tortoise.

Survey Protocol and Requirements: FWC requires that all gopher tortoise surveys submitted for acquiring permits be performed by an Authorized Gopher Tortoise Agent and must be conducted no more than 90 days before an application is submitted to FWC. An authorized agent has completed FWC's required training courses, and a list of agents can be found on <u>FWC's gopher tortoise</u> permitting online website. More information can be found through <u>FDOT's Gopher Tortoise Guidance Document</u>.

3. AGENCY COORDINATION (STATE)

Responsible Agency(s): The gopher tortoise is managed by the Fish and Wildlife Conservation Commission (FWC).

Agency Coordination: Coordination with FWC will be required through the gopher tortoise permitting process. If you have questions regarding gopher tortoise or permitting refer to the <u>FWC Guidelines</u> and/or <u>FDOT Gopher Tortoise Guidelines</u>.

Demonstrate Avoidance, Minimization, and Mitigation: There are three ways to address the presence of gopher tortoises: avoid disturbance of tortoise burrows, relocate tortoises on-site (permit required), or relocate them off-site (permit required). A disturbance is considered to include work within 25 feet of a tortoise burrow. Mitigation for gopher tortoise is the relocation of the animal to an FWC approved recipient site and the associated permit fees. Minimizing efforts can include but are not limited to installation of silt fencing to prevent tortoises from entering construction areas; education efforts for construction staff regarding gopher tortoise regulations; additional field surveys during construction; and tortoise signage (see <u>FWC signage guidelines</u>) within the construction footprint where appropriate to alert construction personal. Silt fencing is the most common way gopher tortoises are excluded from a project corridor. The silt fence must be installed according to FDOT's Standard Specification 104-6.4.6 (trenched and taut). Repeated and diligent inspections and repairs are important to maintain functionality of the fence. It is important to note that gopher tortoises are attracted to recently cleared property and can enter a construction zone and dig a new burrow within one day.

Tools for Section 7 Consultation: No Federal Species Effects Determination Key has been developed for the state listed gopher tortoise.

Special Provisions, or Standard Protection Measures: There are no gopher tortoise standard protection provisions for construction, however protective measures can be found within <u>FWC's Gopher Tortoise Permitting Guidelines</u> and/or <u>FDOT Gopher Tortoise</u> <u>Guidance Document</u>. Note that the presence of gopher tortoises in the project area may be handled by using a Special Provisions, Modified Special Provisions (MSPs), project specific plan notes that include locations of burrows and exclusionary fencing and including copy of the permit in the contract package. The use of MSPs and Plan notes should be coordinated with the District Specifications Office before final plans are developed.

General Timeframes for Permitting: Gopher tortoise permitting can take 90 days, although most applications will be processed in 45 days or less. Timely issuance of permits is dependent on receipt of required documentation and permit fee. Note that a comprehensive, 100% burrow survey of all potential tortoise habitat proposed for development must be conducted no more than 90 days prior to, and no fewer than 72 hours before (excluding weekends and holidays) commencing gopher tortoise capture and relocation activities.

4. PERMITTING

Prohibited Activities: Activities that can lead to rule violations include, but are not limited to, clearing, grading, paving, bulldozing, digging, building construction, and site preparation for development without a permit. Examples of actions that are rule violations include the following: killing or causing direct harm to gopher tortoises; collapsing gopher tortoise burrow entrances or other parts of tortoise burrows without a permit; blocking, covering, or filling in gopher tortoise burrow entrances without a permit; placing harmful substances or devices inside gopher tortoise burrows; penning or restricting gopher tortoises into small areas for more than 72 hours without a permit; altering gopher tortoise habitat to such an extent that resident tortoises are taken by such activities; excluding tortoises from their burrows without a permit; and, relocating or possessing tortoises without a permit.

Exemptions: Most typical activities associated with vegetation maintenance activities of the right-of-way (ROW) do not require a permit, provided they do not collapse gopher tortoise burrows or harm gopher tortoises. Examples include mowing and tree cutting.

Authorized Permitting Activities: The FWC uses a multi-tiered approach to permitting actions involving gopher tortoises. These permits are divided into three main types: 1) Authorized Agent permits, which authorize persons to survey, capture, transport, and release tortoises; 2) Site-specific relocation permits, which authorize capturing and relocation of tortoises either within the boundaries of the area being impacted (on-site) or from the area being impacted to a permitted recipient site (off-site); and 3) Recipient Site permits, which authorize the use of designated sites meeting specific criteria as recipient areas for tortoises.

Permit Fees: A mitigation contribution is required for all relocation permits. Mitigation contributions are assessed by determining the estimated number of tortoises impacted (typically the number of potentially occupied tortoise burrows to be impacted, divided by 2). A variable scale for additional contributions is based on the overall conservation value of the action being permitted and the

estimated number of gopher tortoises being impacted. Preferred conservation actions, such as responsibly relocating tortoises to longterm protected lands, require a lower contribution per tortoise than relocations to short-term protected or unprotected lands or relocations associated with Disturbed Site permits. Other costs may be incurred by applicants obtaining permits or conducting activities related to gopher tortoises. Examples of such costs include fees paid to consultants, fees paid for on-site preparation for gopher tortoise related activities, and fees paid to owners of recipient areas. Establishing a method to pay the mitigation contributions associated with the permit, as well as per tortoise relocation fees, is important to identify early in order to ensure that fees do not hold up the process. See <u>FDOT Mitigation Payment Processing Handbook</u>.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review all Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to gopher tortoise. Make sure construction personnel have copies. Note that FWC requires the Gopher Tortoise Agent to complete an *After-Action Report* once all the tortoises have been relocated.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one-year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: Watch out for utilities! They often conduct work prior to commencement of roadway construction and may require early relocation of gopher tortoises. When gopher tortoise burrows exist within the ROW for any FDOT project, the designated District office responsible for coordinating the gopher tortoise efforts should coordinate with the District Utility Office. This coordination should take place between 60 and 90 percent plans to address utility relocation (i.e., any earth disturbing utility work) anticipated for the project and, if conflicts exist, organize relocation efforts. The Authorized Agent and/or backhoe operator must understand utility locations prior to digging.

Seasonal Restrictions: Above-ground activity for tortoises is greatly reduced during cold weather, with tortoises in northern Florida remaining below ground for months. This can present challenges with permit approved capture efforts as tortoise cannot be relocated when temperatures at the proposed work site are forecasted to go below 50° Fahrenheit. In addition, a three-day window (72 hours) of milder overnight temperatures is required to allow the relocated tortoise(s) to settle into the recipient site and to reduce the chance of cold-related stress or mortality. Moving a tortoise when temperatures are forecasted to be less than 50° at either the proposed construction site <u>or</u> the recipient site would be considered as a permit violation.

Survey Restrictions: Gopher tortoise surveys must be conducted by an FWC Authorized Gopher Tortoise Agent.

7. RESOURCES

Web Resources*

- FDOT Gopher Tortoise Guidelines
 <u>https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/protected-species/gt-mou-fdot-fdep-2023-2126985676.pdf?sfvrsn=13444cf2_2</u>
- FWC Gopher Tortoise Home Page <u>http://www.myfwc.com/wildlifehabitats/managed/gopher-tortoise/</u>
- FWC Gopher Tortoise Permitting Guidelines
 <u>https://myfwc.com/license/wildlife/gopher-tortoise-permits/permitting-guidelines/</u>
- FWC Gopher Tortoise Management Plan Page http://www.myfwc.com/wildlifehabitats/managed/gopher-tortoise/management-plan/
- FWC Gopher Tortoise Contacts by Region
 <u>http://www.myfwc.com/license/wildlife/gopher-tortoise-permits/contacts/</u>
- List of Gopher Tortoise Relocation Permit Recipient Sites in Florida: <u>https://myfwc.com/license/wildlife/gopher-tortoise-permits/recipient-</u>

sites/#:~:text=Recipient%20sites%20are%20privately%20or%20publicly%20owned%20lands,needing%20relocation %20out%20of%20harm%E2%80%99s%20way%20from%20development.

 USFWS Gopher Tortoise Trapping and Translocation Guidelines <u>https://www.fws.gov/media/gopher-tortoise-survey-handbookpdf</u>

Lead Specialist(s) for Agencies:

• Regional Gopher Tortoise Permitting Contacts are listed on FWC website region <u>http://www.myfwc.com/license/wildlife/gopher-tortoise-permits/contacts/</u>

Other Federal, State, and Local Sources:

• Authorized Gopher Tortoise Agents listed on FWC's Gopher Tortoise Permitting Website.

Publications:

• A complete list of publications on gopher tortoises can be found at: <u>https://gophertortoisecouncil.org/education-outreach</u>.

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.



PHOTO – Gopher Tortoise burrow with apron.

APPENDIX 2e Mangroves

Mangroves



STATUS:	Protected Habitat
AGENCY:	Environmental Protection Agency (EPA); U.S. Army Corps of Engineers (USACE); Florida
	Department of Environmental Protection (FDEP) / Water Management Districts (WMD); U.S.
	Fish and Wildlife Service (USFWS); National Marine Fisheries Service (NMFS); and local
	county governments as applicable.
FDOT DISTRICTS:	All Districts, although more so in the southern Districts of 1, 4, 5, 6, and 7
HABITAT:	Mangrove wetlands, mangrove fringe, mangrove overwash islands, riverine mangrove forests,
	basin mangrove forests, dwarf mangrove forests, vegetated coastal shorelines, creeks, canals,
	and other surface water.
PRIMARY ISSUES:	Mangrove impacts including trimming, altering, disturbing, and removing require permits, and
	compensatory mitigation depending on the type of impact proposed
SEASONAL ISSUES:	Avoid trimming during or around a freeze event, as this can accentuate stress

1. CONSERVATION STATUS

Federal Status: Dredge and fill impacts to mangrove wetlands are regulated through Section 404 permitting under the Clean Water Act.

State Status: Legislation on state and local levels protect mangroves from direct human damage. The <u>1996 Mangrove</u> <u>Trimming and Preservation Act</u> (sections 403.9321-403.9333, F.S.) regulates the trimming, alteration, and removal of mangroves statewide and is administered by FDEP and WMDs with the exception of those local agencies that have received <u>delegated authority</u> (Broward. Hillsborough, Miami-Dade, and Pinellas Counties, the City of Sanibel, and the Town of Jupiter Island). In addition, mangrove impacts are regulated through the State's Environmental Resource Permitting programs.

What other laws may apply? Essential Fish Habitat (EFH) under the Magnuson-Stevens Act applies to mangroves as they provide habitat where fish spawn, breed, feed, and grow to maturity. EFH consultation with NMFS guides the Section 404 permitting review process. Note that mangroves occur within any State regulated waterway including State Sovereign Submerged Lands and aquatic preserves. Mangrove trimming, or alteration, is not an activity that requires a Sovereign Submerged Land (SSL) authorization; however, tree removal, dredge, and fill activities on SSL will require authorization including, "Consent by Rule" and a "Letter of Consent," which can be granted through FDEP or WMD review staff as part of their permit review. Note that mangroves serve as important habitat for a number of federal and state protected species and impacts may require consultation with the USFWS. Mangroves also receive additional protections under Outstanding Florida Waters (OFW), Florida Keys Area Protection Act and the National Marine Sanctuary Act (NMSA).

2. HABITAT

Description: Mangroves are subtropical and tropical plants that are adapted to wet soils, tolerant to salt water and being periodically submerged by tides. Four factors limit the distribution of mangroves - climate, salt water, tidal fluctuation, and soil type. Three species of mangroves are native to Florida - red mangrove (*Rhizophora mangle*), black mangrove (*Avicennia germinans*) and white mangrove (*Laguncularia racemosa*). Buttonwood (*Conocarpus erectus*), while often considered a fourth mangrove species, is technically a mangrove associate, as it lacks the specialization of true mangroves and is usually found along the uplands intertidal zone and above the reach of tides. Together these mangroves provided important benefits including trapping and cycling organic materials, chemical elements, and nutrients within the coastal ecosystem; providing food chain resources for marine organisms; providing physical habitat and nursery grounds for a wide variety of marine organisms, many of which have important recreational or commercial value; serving as storm buffers by reducing wind and wave action in shallow shoreline areas; assisting with maintaining and improving the quality

of coastal waters; and preventing shoreline erosion. In addition, mangroves, seagrass beds, and coral reefs are all interdependent upon one another, providing habitat for aquatic plants and animals including those that are endangered and threatened.

Florida Distribution: Mangroves are typically found in intertidal areas where temperatures do not drop below freezing for prolonged periods. Mangrove forests extend from the Florida Keys to St. Augustine on the Atlantic coast, and Cedar Key on the Gulf coast; however, they can extend further northward as sparse, individual, short, shrubby plants.

Behavior and Activity to Note: Mangrove zonation, or how mangroves grow along a shoreline, is determined by tidal changes, elevation of the land, and salinity of the soil and water. Typical species positioning from low tide to high tide begins with red mangroves at the furthest waterward position. This is because their prop roots elevate the tree and can tolerate longer periods of inundation. Black mangroves are behind the red mangroves, their pneumatophores can tolerate flooding and they are the most salt tolerant. Whites are the most upland species and has the least adapted root system, and therefore found closet to upland vegetation. While the zonation model works as a guide, it is not always the case in the field.

Suitable Habitat: Mangroves provide suitable habitat to federally protected species such as the white-crowned pigeon, wood stork, smalltooth sawfish, crocodile, manatee, sea turtle, Key deer, and the Florida panther. In addition, mangrove wetlands provide habitat and refuge to a wide array of wildlife such as birds, fish, invertebrates, mammals, and plants. Coastal mangrove shorelines are important spawning and nursery territory for juvenile marine species including shrimp, shellfish, crabs, and sport and commercial fish species (see EFH).

How to know if you have suitable habitat? The three species of mangroves can be identified based on aspects of their leaves, leaf arrangement, seeds, and root structures. See <u>FDEP Field Guide to Florida Mangroves</u> or see <u>Florida Museum</u> mangrove species profiles.

Protection and Management Plan: At least 80% of mangroves are under some form of governmental or private ownership or control for preservation or conservation purposes.

Survey Protocol and Requirements: For limited mangrove trimming impacts, FDOT is typical required to determine a total square feet or acreage impact total. To determine mangrove replacement value, a *Uniform Mitigation Assessment Method* (UMAM) is performed based on Chapter 62-345, Florida Administrative Code. UMAMs are provided to resource agencies for their approval (see **Wetland Mitigation Appendix**).

3. PERMITTING

What activities are prohibited? Mangrove trimming, altering, disturbing, and removing require resource agency coordination and permitting.

What kinds of activities can permits authorize? Mangrove trimming and alteration can be permitted through FDEP under the <u>Mangrove Trimming and Preservation Act</u>. Mangrove removal, dredging, or filling require Section 404 permitting and Environmental Resource Permitting (ERP).

4. AGENCY CONSULTATION

Who is the responsible agency(s)? Mangrove trimming and alteration will be through FDEP or the Delegated Local Government authority. For dredge and fill impacts to mangrove wetlands, Section 404 permitting is under the USACE. ERP impacts through FDEP or the WMD. Consult with the USFWS or NMFS for impacts to protected species, critical habitat, and EFH impacts.

Federal Nexus for consultation? Federal or state permitting for dredge and fill in mangrove wetlands or state permitting for mangrove trimming activities under the Mangrove Trimming and Preservation Act or an ERP.

Type of Consultation: A pre-application meeting prior to permit submittal for projects that propose dredge and fill impacts to mangroves. Agencies require a general mitigation approach and a demonstration of avoidance and minimization measures as part of the pre-application meeting.

Demonstrate Avoidance, Minimization, and Mitigation/Commitments: After avoidance and minimization efforts for proposed project impacts to mangrove wetlands have been completely evaluated, FDOT shall develop a mitigation proposal to offset the functional loss of any impacted mangroves within the appropriate coastal watershed. The use of a certified professional mangrove trimmer or arborist to assist with minimization efforts and plan notes should be evaluated.

Design Plan Notes: Project specific general notes can be added to alert the contractor to avoid activities that may impact mangrove wetlands. Examples can include delineating no work or staging zones, tree protection measures, a "top-down" approach rather than working within the wetland, and stipulating work activities be done by hand rather than heavy equipment that could cause additional impacts.

General timeframes for consultation and permitting: Timely issuance of permits is dependent on scope of work, avoidance and minimization efforts, and, if necessary, a suitable mitigation plan.

5. PRE-CONSTRUCTION AND CONSTRUCTION COMPLIANCE

Prior to the commencement of construction, advise personnel that it is a violation of law to trim, alter, or remove mangroves without a permit. Violations are punishable by fines for each mangrove illegally altered. There may also be restoration and replacement plantings required, in addition to the fines.

Review all environmental permits for Special Conditions related to mangroves. Make sure that construction personnel have copies. Be certain that any permit conditions are strictly followed.

6. TIPS

Tip: The ETDM Environmental Screening Tool has a dataset under Wildlife Habitat, Habitat, titled <u>Florida Mangroves</u>. The data is based out of land use and land cover information from Florida's Water Management Districts.

The <u>Mangrove Trimming and Preservation Act</u> balances protections while not outright banning mangrove alterations; therefore, it contains a number of specific criteria and exemptions too numerous to include in this summary. A few specific criteria and exemptions are listed below; however, a review of the Act is recommended prior to coordinating with FDEP, or delegated authority.

- *Professional Mangrove Trimmer* As the scale of the trimming increases, the regulations mandate that a qualified Professional Mangrove Trimmer (PMT) complete or directly oversee the work. The following persons are automatically considered as PMTs, in accordance with 403.9329(1)(a-e) F.S., of the Mangrove Act:
 - Arborists certified by the International Society of Arboriculture
 - Professional wetland scientists certified by the Society of Wetland Scientists
 - Environmental professionals certified by the Academy of Board Certified Environmental Professionals
 - Ecologists certified by the Ecological Society of America
 - Landscape architects currently licensed in Florida under part II of Chapter 481, F.S

To learn about becoming a certified PMT, go to FDEP's site "<u>How to Become a Professional Mangrove Trimmer</u> | <u>Florida Department of Environmental Protection</u>."

- *Riparian Mangrove Fringe* Trimming within a Riparian Mangrove Fringe is exempt from certain requirements if lands are owned or controlled be the person who will supervise or conduct the trimming activities or on sovereign submerged lands immediately waterward and perpendicular to the lands. To qualify as a Fringe, the mangrove area must measure no more than 50 ft. from the most landward mangrove trunk to the trunk of the most waterward tree. This distinction arises from the belief that mangrove habitats greater than 50 ft. have an increased ecological importance and thus warrant a greater level of protection.
- *Mangrove Height* Increased regulations apply to trees greater than 10 ft. in height prior to trimming, and those greater than 16 ft. in height before trimming are subject to greater regulation still.
- Exemptions for Surveying
 - The trimming of mangrove trees by a state-licensed surveyor in the performance of her or his duties if the trimming is limited to a swath of 3 ft. or less in width.
 - The trimming of mangrove trees by a duly constituted communications, water, sewerage, electrical, or other utility company, or by a federal, state, county, or municipal agency, or by an engineer or a surveyor and mapper working under a contract with such utility company or agency, when the trimming is done as a governmental function of the agency.

Mangrove Living Shoreline: The use of mangroves to provide alternatives to hard armoring can be evaluated as an approach to reducing wave damage, storm damage, promote ecological benefits, create wildlife habitat, buffer

infrastructure from sea-level rise, and build resilient shorelines. Examples and approaches can be found on FDEP's Resilient Florida Program – Living Shorelines webpage.

Seasonal restrictions: Avoid trimming during or around a freeze event, as this can accentuate stress on the trees.

Internal Coordination: Early internal coordination between environmental, design, and construction is important so that project scope is clear and construction methodology options are available to understand potential impacts to the mangroves, as well as to identify avoidance and minimization efforts.

7. **RESOURCES**

Publications:

- Andreu MG, Friedman MH, McKenzie M, and Quintana HV (2010) <u>Laguncularia racemosa, White Mangrove</u>, School of Forest, Fisheries, and Geomatics Sciences, UF/IFAS Extension.
- Andreu, MG, Friedman MH, Hudson MM, and Quintana HV (2010) <u>Avicennia germinans, Black Mangrove</u>, School of Forest, Fisheries, and Geomatics Sciences, UF/IFAS Extension.
- Currin, CA (2019) "Living Shorelines for Coastal Resilience." In *Coastal Wetlands*, Second Edition, 1023–1053. Elsevier. <u>https://doi.org/10.1016/B978-0-444-63893-9.00030-7</u>
- Gilman EF, Watson DG, Klein RW, Koeser AK, Hilbert DR, and McLean DC (1993) <u>Conocarpus</u> <u>erectus: Buttonwood</u>, Environmental Horticulture Department, UF/IFAS Extension.
- Medina-Irizarry N, and Andreu MG (2023) <u>Rhizophora Mangle, Red Mangrove</u>, UF/IFAS School of Forest, Fisheries, and Geomatics Sciences, Gainesville, Florida 32611.
- FDEP, <u>Mangrove Training Presentations and Guides</u>
- FDEP, Submerged Lands and Environmental Resources Coordination Program
- FDEP, Field Guide to Florida Mangroves
- "Mangrove Trimming and Preservation Act" Sections 403.9321-403.9333, Florida Statutes, (2019).
- Narayan S, Beck MW, Reguero BG, Losafa IJ, Wesenbeeck B. van, Pontee N, Sanchirico JN, Ingram JC, Lange GM, and Burks-Cope KA (2016) "The Effectiveness, Costs and Coastal Protection Benefits of Natural and Nature-Based Defences." *PLoS ONE* 11 (5): e0154735. <u>https://doi.org/10.1371/journal.pone.0154735</u>
- NOAA Fisheries, Office of Habitat Conservation, NMFS, <u>Essential Fish Habitat Mapper</u>
- US Fish and Wildlife Service Southeast Region (1999) *South Florida Multi-Species Recovery Plan Ecological Communities: Mangroves.* <u>https://www.nrc.gov/docs/ML1219/ML12193A340.pdf</u>

APPENDIX 2f West Indian Manatee

West Indian Manatee Trichechus manatus



STATUS:	Federally listed, Threatened
AGENCY:	U.S. Fish & Wildlife Service (USFWS) and Florida Fish and Wildlife Conservation Commission (FWC)
FDOT DISTRICTS:	All Districts and the Florida Turnpike Enterprise (FTE)
HABITAT:	Marine and freshwater systems that are tidally connected
PRIMARY ISSUES:	Section 7 ESA Consultation and Critical Habitat
SEASONAL ISSUES:	Manatees are wide-ranging during warm months; restricted to springs and other warm-water areas during colder temperatures

1. CONSERVATION STATUS

Federal Status: The West Indian manatee was listed as *endangered* in 1967 (32 FR 4001) under the Endangered Species Preservation Act (ESA) of 1966 and later adopted into the Endangered Species Act (16 U.S.C. §§1531-1544). In 2017, the manatee status was amended from *endangered* to *threatened*.

State Status: The first state action to protect the manatee was in 1892 when a prohibition was enacted to prevent the killing of a manatee under Florida statute. Today, in accordance with Chapter 68A-27, F.A.C, the manatee is state listed as *threatened* pursuant to the ESA federal designation.

Other Applicable Laws: In addition to the ESA, the manatee is protected by the U.S. Marine Mammal Protection Act (16 U.S.C. §§1361-1421); the Florida Manatee Sanctuary Act (FMSA-§379.2431(2), FS); Clean Water Act (33 U.S.C. 1251 et seq); and, through the designation of Federal Manatee Protection Areas (50 CFR 17 Subpart J). The USFWS has also designated seagrass beds as Critical Habitat for manatees.

2. ECOLOGY & MANAGEMENT

Description: The manatee is a large seal like aquatic mammal that is gray and nearly hairless. Other features include a broad, rounded, and flatted tail; flipper-like front limbs; absent hind limbs; a head that is undifferentiated from body; small eyes; no external ears; and an upper lip bearing stiff bristles.

Florida Distribution: Manatees can be found throughout Florida in coastal, riverine, and lake habitats. They are commonly found within peninsular Florida as they cannot tolerate extended temperatures below 68 degrees Fahrenheit.

Suitable Habitat: Manatee habitat includes marine, brackish, and freshwater systems such as coastal and riverine areas that contain underwater vegetation such as seagrass and eelgrass. Boat channels and canals are used by manatees primarily to go from one location to another. Key factors for manatee distribution include proximity to warm water during cold weather, aquatic vegetation availability, proximity to channels of at least six (6) feet in depth, and location of fresh water drinking sources. Manatees seek out sheltering coves for feeding, resting, and calving.

Identification of Suitable Habitat: Work directly above or within a waterway may impact the manatee. Although suitable habitat or Critical Habitat may not exist within your project, it is possible that manatees could utilize the waterway to access habitat up or downstream of your project.

Behavior and Activity to Note: Manatees are curious and will enter areas that could cause them harm. Attention must be taken when installing drainage structures, trash rakes, turbidity barriers and other such devices as they may entrap manatees resulting in harm. Note that at least 90 days prior to the construction of a structure that may be a barrier or impediment to manatees, consultation with USFWS is required. If a manatee-accessible waterway is proposed to be closed to manatees (exclusion area), aerial and ground surveys are required to ensure that manatees are not trapped within a closed system.

Protection and Management Plans: The Florida Manatee Recovery Plan was developed to assure the long-term viability of the manatee with the goal of removing it from the ESA. The plan provides a framework for actions by the USFWS to take toward protecting the species and its habitat. To see the Plan, go to: <u>https://ecos.fws.gov/docs/recovery_plan/011030.pdf</u>.

Designated Protection Area or Critical Habitat: Critical Habitat for the manatee is defined within the Code of Federal Regulations (CFR) 50 - Parts 1 to 199, revised as of October 1, 2000. Critical Habitat is defined as specific areas known to be occupied by manatee, which have physical or biological features essential to manatee conservation and/or may require special management considerations. To learn more, go to: <u>https://ecos.fws.gov/ecp/species/A007#crithab</u>.

Survey Protocol and Requirements: No survey protocol. If working over or within a waterway assume manatees can access the area unless you can provide documentation that they cannot due to water control structures.

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): The applicable agency for the manatee is the USFWS. The USFWS, through Section 7 of the ESA, reviews federal permit applications for projects that may affect manatees. As part of the review, the USFWS recommends ways to avoid or minimize the effects. The Florida Fish and Wildlife Conservation Commission (FWC) provides comments and recommendations to the state permitting agencies on environmental resource permits and sovereign submerged lands leases regarding project-related impacts to manatees.

Federal Nexus for Consultation: Any federally funded activity conducted, funded and/or permitted that *may affect* the manatee or their Critical Habitat requires an ESA effects determination and consultation with the USFWS.

Type of Consultation: To determine whether Informal or Formal Section 7 Consultation is required, first identify the proposed project location; the potential effects to manatees and manatee habitat, and/or manatee Critical Habitat; and any measures that could be utilized to avoid or minimize effects to manatees and/or Critical Habitat.

Demonstrate Avoidance, Minimization, and Mitigation: Provisions have been developed to avoid and minimized impacts to manatees and are listed within the FWC *Standard Manatee Conditions for In-water Work* (2011). Additional conditions may also include but are not limited to the use of dedicated observers; dredging during specific months (warm weather months vs cold weather months); working during daylight hours only; adjusting the number of workdays; and, limit activities to those that do not preclude or discourage manatee egress/ingress.

Tools for Section 7 ESA Consultation: A species effect determination key is available for establishing the potential effects of proposed projects. To see the *Effect Determination Key for the Manatee in Florida*, April 2013, go to: http://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered species/Manatee/2013 FINAL ManateeKey.pdf

Special Provisions, or Standard Protection Measures: The most common recommendation to offset impacts to manatees is the *Standard Manatee Conditions for In-Water Work*, July 2011. They can be found at: https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/Manatee/2011_StandardConditionsForIn-waterWork.pdf. These conditions represent the minimum amount of protection for manatees for in-water work.

In addition, FDOT has Special Provisions expanding the existing requirements when manatees are known to occur within the project. Go to: <u>Legal Requirements and Responsibility to the Public – Laws to be observed – Compliance with Federal Endangered Species</u> <u>Act and Other Wildlife Regulations</u> (Manatees) –

https://fdotwww.blob.core.windows.net/sitefinity/docs/default-

source/programmanagement/implemented/workbooks/janworkbook2022/sp0070104-4-122.pdf?sfvrsn=9d6af9e9_2.

Note that when installing drainage or other structures FDOT must commit to manatee exclusion devices (such as grating) over any existing or proposed pipes or culverts greater than 8 inches, but smaller than 8 feet in diameter that are submerged or partially submerged. If horizontal or vertical bars are used, no more than 8-inch gaps on center will be approved. Manatee exclusion devices should be identified within the project plans.

General Timeframes for Consultation and Permitting: Timely issuance of permits is dependent on completion of informal or formal consultation with the USFWS regarding potential impacts to manatee.

4. PERMITTING

Prohibited Activities: In-water work, and in some cases above water work, has the potential to impact manatees depending on the type and location of work being proposed. Consultation is required under section 7 of the ESA to evaluate impacts on manatees and their Critical Habitat and receive the necessary consultation concurrence and permitting.

Exemptions: Exceptions exist for waterways that are not accessible to manatees based on water control structures. To determine whether this applies coordinate with the USFWS.

Activities Authorized by Permit: Permit authorization is based on the proposed project location and description; the potential effects to manatees, manatee habitat, and/or manatee Critical Habitat; and any measures (such as project components, standard construction precautions, or special conditions included in the authorization) to avoid or minimize effects to manatees or manatee Critical Habitat.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in Project Suite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review of Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to manatee and its Critical Habitat. Make sure construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: Identify whether manatees have access to your project. If unsure, check with the USFWS regarding water control structures and whether these structures prevent access thus eliminating concerns. Shallow water alone is not always a limiting factor as storm events can raise water levels allowing access for curious manatees.

Seasonal restrictions: During warmer months, manatees are wide ranging. However, in the winter months manatees often take refuge in springs and other warm-water areas. Manatees cannot tolerate temperatures below 68 degrees Fahrenheit for extended periods of time. Many manatees rely on the warm water from natural springs and power plant outfalls.

7. RESOURCES

Web Resources*

- Florida Manatee Protection Zone Information
 <u>https://myfwc.com/wildlife/manatee/data-and-maps/</u>
- FWC Approved Manatee Signs
 <u>http://myfwc.com/wildlifehabitats/managed/manatee/education-for-marinas/</u>
- FWC Grates and Other Manatee Exclusion Devices for Culverts and Pipes October 2015 https://myfwc.com/media/7269/manatee_grates.pdf
- FWC Manatee and Permitting <u>http://myfwc.com/wildlifehabitats/managed/manatee/permit-review/</u>
- USFWS Manatee Critical Habitat
 <u>Critical Habitat for Threatened & Endangered Species [USFWS] (arcgis.com)</u>
- FWC Manatee Watch Program
 <u>http://myfwc.com/wildlifehabitats/managed/manatee/watch-program/</u>
- USFWS Florida Manatee Key Programmatic Biological Opinion <u>https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/</u>
- USFWS Manatee Recovery Plan <u>https://www.fws.gov/node/68069</u>
- USFWS Manatee Stock Assessment Reports (SAR) <u>https://www.fws.gov/media/west-indian-manatee-florida-stock-assessment-report</u>
- USACE Standard Conditions for In-water Work
 https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/Manatee/2011_StandardConditionsForIn-waterWork.pdf

Lead Specialist(s) for Agencies:

USFWS - Regional Florida Manatee Co-coordinators,

- Charles Calleson, (904) 404-2495, Charles Calleson@fws.gov
- Teresa Calleson, (904) 404-2505, <u>Teresa_Calleson@fws.gov</u>

Other Federal, State, and Local Sources:

- USFWS, <u>North Florida Ecological Services Office (NFESO)</u> (352) 448-9151
 - 7915 Baymeadows Way, Suite 200, Jacksonville, FL 32256
- USFWS, <u>South Florida Ecological Services and Everglades Office (SFESO)</u> (352) 448-9151
 1339 20th Street, Vero Beach, Florida 32960-3559
- <u>Florida Fish and Wildlife Conservation Commission</u> (850) 922-4330
 620 South Meridian Street, Tallahassee, FL 32399
- To report an injured manatee FWC's Wildlife Alert Toll-Free Number 1-888-404-FWCC (1-888-404-3922)

Publications: https://myfwc.com/research/manatee/information/bibliography/

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 2g Osprey Nest Relocations

Osprey Pandion haliaetus



STATUS:	Protected under the U.S. Migratory Bird Treaty Act
AGENCY:	U. S. Fish & Wildlife Service (USFWS) and Florida Fish & Wildlife Conservation Commission (FWC)
FDOT DISTRICTS:	All Districts and the Florida Turnpike Enterprise (FTE)
HABITAT:	Beaches, estuaries, open water, and salt marsh and freshwater lakes, rivers, and swamps. Nest in tall structures such utility poles, cell towers, trees, and channel markers.
PRIMARY ISSUES:	Nest in structures and must be removed to allow for maintenance activities.
SEASONAL ISSUES:	Late November through March (will vary throughout the state, especially south Florida/Monroe County)

1. CONSERVATION STATUS

Federal Status: The osprey is not listed under the Endangered Species Act (ESA); it is protected under the U.S. Migratory Bird Treaty Act. The Act makes it illegal to take, possess, import, export, transport, sell, or purchase any migratory bird, or their parts, nests, or eggs except under the terms of a federal permit.

State Status: The osprey is no longer listed in State Rule 68A-27.001, FL Administrative Code (F.A.C) as a "*species of special concern*" in Monroe County. Florida Fish and Wildlife Conservation Commission (FWC) issued an action plan in 2018 that reassessed the status of the osprey of Monroe County and concluded that the osprey of Monroe County is not genetically distinct and therefore does not meet state listing criteria. The osprey is still part of the of the State's <u>Imperiled Species Management Plan</u>.

Other Applicable Laws:

- 68A-4.001, F.A.C., General Prohibitions: No wildlife or their nests, eggs, young, or homes shall be taken, transported, stored, served, bought, sold, or possessed in any manner or quantity at any time except as specifically permitted by these rules.
- 68A-1.004, F.A.C., Take: The term shall include taking, attempting to take, pursuing, hunting, molesting, capturing, or killing any wildlife, or their nests or eggs by any means whether or not such actions result in obtaining possession of such wildlife or their nests or eggs.

2. ECOLOGY & MANAGEMENT

Description: The osprey can reach a height of 23 inches with a wingspan of 72 inches. Ospreys have a white underside and head, and a brownish upper body with a black line across the eyes that extends to the wings. Several features distinguish the osprey from other birds of prey, including a reversible fourth toe and spines located on their feet that are used to help grasp their prey as they fly over the water.

Florida Distribution: For the majority of North America, the osprey is considered migratory and winter in South and Central America. In Florida, particularly in coastal southern Florida, ospreys do not migrate.

Suitable Habitat: Osprey habitat includes coastal areas such as beaches, estuaries, open water, and salt marsh and freshwater lakes, rivers, and swamps. This species is associated with water as fish are their primary food source.

Identification of Suitable Nesting Habitat: Osprey will nest in a variety of structures including utility powers, cell towers, trees, and channel markers. Nests are made up of sticks and are large enough to mistake for eagle nests. Osprey breed from late November through March (will vary throughout the state especially south Florida). The female incubates eggs for about 37 days and broods the young chicks continually until about two weeks, and after that in inclement weather until four weeks of age. Young fledge approximately eight to nine weeks after hatching.

Behavior and Activity to Note: Ospreys nest near water bodies but will sometimes nest in an area void of water.

Protection and Management Plan: The osprey is included within the State's Imperiled Species Management Plan.

Designated Protection Area or Critical Habitat: No Designated Protection Area or Critical Habitat has been designated.

Survey Protocol and Requirements: There is not a specific survey protocol for this species. To determine whether a nest is active, the site should be observed in the morning hours to confirm that the nest is utilized by osprey. Observers should note the presence of two osprey, fish bones below the nest and osprey behavior such as rebuilding nest or bringing fish to nest site all of which indicate an active nest site. It is important to mention that osprey nests can be used by different birds (bald eagle or a great horned owl) from year to year. Usage by osprey should be confirmed during the active nesting season prior to the removal of an inactive nest.



3. AGENCY CONSULTATION

Responsible Agency(s): Coordination with the state and federal agencies is not required to remove inactive nests. The U.S. Fish and Wildlife Service (USFWS) Migratory Bird Section takes the lead on removal of an active nest. An application for a Migratory Bird Take should be submitted to the issuing/reviewing office at least 60 calendar days prior to your requested effective date. Permits to take osprey, their eggs or young will be issued only under limited and specific circumstances, in cases where there is an immediate danger to the public's health and/or safety, or in direct response to an official declaration of a state of emergency by the Governor of Florida or a local governmental entity. All efforts must made to avoid the take of an active nest. Note that a licensed Florida wildlife rehabilitator shall be on call to provide treatment to the chicks, in the event that the adults abandon relocated nest or if the chicks must be removed from the nest during relocation.

Type of Coordination: Any project that is authorized, funded, or requires a federal permit will need to consult with USFWS under the U.S. Migratory Bird Treaty Act if the project will affect an active osprey nest.

Demonstrate Avoidance, Minimization, and Mitigation: In most cases, work near an active osprey nests should be avoided. When such work is not avoidable, workers in the area should take precautions and may need to protective themselves from protective osprey. An experienced site worker or contract biologist will need to observe the behavior of the birds. Ospreys will defend their nests aggressively using their large talons. Working around an active osprey nest is not only potentially hazardous to workers, but also to the osprey eggs and young. Adults regulate the temperature of eggs and young chicks within a relatively narrow range. If the osprey is off the nest for an extended period, eggs or young may become too hot or too cold, causing them to die. The likelihood of osprey chicks hurting themselves or jumping from the nest increase when chicks can see or hear workers near the nest.

Specific guidance for working near an active nest:

- Limit maintenance or construction activities near active nests.
- All work on a tower or pole should be conducted in the morning or evening. To avoid the heat of the day, FWC recommends stopping work from 1½ hour after sunrise to 1½ hour before sunset.
- No work should be conducted during rainy weather.
- Work should be completed within 45 minutes to avoid keeping the adults off the nest for too long.
- No more than 2 work attempts should be performed in 1 day.

No work should be attempted if chicks are younger than 1 to 2 weeks of age.

Special Provisions, or Standard Protection Measures: No special provisions or standard protection measures; however, see FWC's <u>Species Conservation Measures and Permitting Guidelines</u> for osprey.

General Timeframes for Coordination and Permitting: A permit is not needed to remove an inactive nest, only for active nests which is strongly discouraged. Limited maintenance and construction activities are allowed near an active nest (see FWC's <u>Species</u> <u>Conservation Measures and Permitting Guidelines</u>).

4. PERMITTING

Prohibited Activities: A permit is required to remove an active nest (i.e., contains eggs or flightless young). The permit would be obtained from the USFWS Migratory Bird Division.

NOTE: A permit from either the Florida Fish and Wildlife Conservation Commission (FWC) or USFWS is not required to remove an inactive osprey nest.

Activities Authorized by Permit: Permits to take osprey, their eggs or young will be issued only under limited and specific circumstances, in cases where there is an immediate danger to the public's health and/or safety, including imminent or existing power outages that threaten public safety, or in direct response to an official declaration of a state of emergency by the Governor of Florida or a local governmental entity. Applications submitted for this permit must include detailed information, along with a copy of the official declaration of a state of emergency, if any. In cases of a declaration of a state of emergency this permit process may be handled after the fact or at least after construction activities have already started. An intentional take permit may be issued for such extreme emergency purposes.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting coordination with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review all Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to osprey. Make sure that construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one-year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: Avoid or limit maintenance or construction activities near active nests.

Seasonal Restrictions: Avoid or limit working during the nesting season from late November through March (will vary throughout the state especially south Florida/Keys). A permit is only required if proposing to impact an active osprey nest.

Survey Restrictions: Surveys are not required but can be used to determine if a nest is active (contain eggs or young). Nests are large, conspicuous, and usually in a tree or man-made structure. When a large nest is identified, it is important to distinguish if it is an eagle nest or an osprey nest.

7. RESOURCES

Web Resources*

- FWC's A Species Action Plan for the Osprey of Monroe County (Draft) <u>https://myfwc.com/media/20972/osprey-monroe-county-species-action-plan-final.pdf</u>
- FWC's Species Conservation Measures and Permitting Guidelines Osprey https://myfwc.com/media/18642/osprey-guidelines.pdf
- FWC's Species Information Osprey <u>https://myfwc.com/wildlifehabitats/profiles/birds/raptors-and-vultures/osprey/</u>
- Florida Natural Areas Inventory. 2001. Field Guide to the Rare Animals of Florida. https://www.fnai.org/PDFs/FieldGuides/Pandion haliaetus.pdf
- USFWS, Migratory Bird Treaty Act <u>https://www.fws.gov/birds/policies-and-regulations/laws-legislations/migratory-bird-treaty-act.php</u>

Lead Specialist(s) for Agencies:

Florida has one USFWS representative for the Migratory Bird Division:

Ulgonda Kirkpatrick, Eagle Biologist Phone (office): (352) 406-6780

Publications:

- Bass, Jr., O.L., and J.A. Kushlan. 1982. Status of the osprey in Everglades National Park. South Florida Research Center Report M-679. 28 pp.
- The Cornell Lab of Ornithology. (2011). *Osprey*. Retrieved March 7, 2011, from All About Birds: <u>http://www.allaboutbirds.org/guide/Osprey/lifehistory</u>
- Bierregaard, R. O., A. F. Poole, M. S. Martell, P. Pyle and M. A. Patten. 2016. Osprey (*Pandion haliaetus*), version 2.0. In The Birds of North America (P. G. Rodewald, Editor). Cornell Lab of Ornithology, Ithaca, NY, USA. -<u>https://doi.org/10.2173/bow.osprey.01</u>
- Fleming, D.M., N.C. Kline, W.B. Robertson, Jr. 1989. A comparison of osprey nesting distribution, abundance and success: Florida Bay USA from 1968 1984. *Bulletin of Marine Science* 44: 517.
- Ogden, J.C., 1996. Osprey. Pages 170-178 *in* J.A. Rodgers, Jr., H.W. Kale II, and H.T. Smith (Eds.). Rare and endangered biota of Florida, Vol. V: Birds. University Press of Florida, Gainesville, FL.

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 2h Listed Plants

Listed Plants



STATUS:	Listed Plant Species	
AGENCY:	U.S. Fish and Wildlife Service (USFWS); U.S. Department of Agriculture (USDA); and the	
	Florida Department of Consumer Services (FDACS)	
FDOT DISTRICTS:	All Districts	
PRIMARY ISSUES:	Impacts to listed plants	
SEASONAL ISSUES:	Identification to the species level may require surveying during seasonal periods associated	
	with flowering, leafing, and fruiting.	

1. CONSERVATION STATUS

Federal Status: Under federal law, activities that may impact federally listed plant species are subject to regulation under the Endangered Species Act (ESA). Destruction, damage, or relocation of listed plants is typically not prohibited unless these activities take place on federal lands (i.e., National Forests, National Park Service lands, National Wildlife Refuges, military bases, and areas designated as critical habitat) or are otherwise in violation of state law on other lands.

State Status: State-listed plants are identified under the Regulated Plant Index <u>Chapter 5B-40.0055</u>, Florida Administrative Code (F.A.C.), and considered under <u>581.185</u>, Florida Statutes (F.S.). The Florida Department of Agriculture and Consumer Services (FDACS) oversees the protection of native plants through Chapter 5B-40, F.A.C. State rules do not specifically regulate or prohibit the incidental taking of state listed plants in the course of project activities, but general principles of avoidance and minimization (such as transplanting) apply.

What other laws may apply? There are a number of laws that protect plants and native plant communities, especially those that provide functional services such as storm protection (mangroves), nursery grounds (seagrasses and mangroves), and provide important habitat (wetland plants). These laws included the Magnuson-Stevens Fishery Conservation and Management Act, Clean Water Act (CWA), and Rivers and Harbors Act of 1899 (RHA) (33 U.S.C. Sec. 401 et seq.). If off-system. will the project is local permitting be required for impacts to native vegetation.https://sanctuaries.noaa.gov/about/legislation/welcome.html, Clean Water Act (CWA), and Rivers and Harbors Act of 1899 (RHA) (33 U.S.C. Sec. 401 et seq.). If the project is off-system, local permitting will be required for impacts to native vegetation.

2. HABITAT

Description: Listed plants can be found throughout Florida; however, certain natural community types support the majority of these plants. These community types include scrub; sandhill; sandhill upland lakes and karst ponds; mesic flatwood; upland hardwood forests and slope forests; limestone outcrops, sinkholes, and upland glades; seepage slopes; wet prairies, marl prairies, and wet flatwoods; dome swamps; floodplain swamps; hydric hammocks; coastal strand, berm, and grassland; strand swamps and sloughs; rockland hammocks; and pine rocklands. When a project is located within any of these natural community types, a field survey should be conducted to evaluate potential impacts to listed plants.

How to know if you have suitable habitat? The ETDM Environmental Screening Tool (EST) has data layers that can be reviewed to identify the potential presence of listed plant species. See FDOT's <u>EST Quick Guide for Plants on Public</u> <u>Site</u>. Data layers to review include Consultation Areas for Atlantic Coastal Plants, Lake Wales Ridge Plants, Miami-Dade Keys Plants, Okeechobee Gourd, Southwest Plants, and USFWS IPaC (plants). Critical Habitat layers are also available for the Aboriginal Prickly-Apple, Florida Semaphore Cactus, Florida Brickell Bush, Cape Sable Thoroughwort, and Carter's Small Flowered Flax. Other helpful data layers include USFWS Telephus Spurge Current Range, Florida Natural Areas Inventory (FNAI) Element Occurrence (documented or likely) and Element Occurrence (potential).

For major transportation projects, a review of ETAT coordination and planning documents (PD&E Natural Resources Evaluation) should be conducted as listed plants may have been identified.

Protection and Management Plan: The USFWS is required to write a recovery plan for each endangered or threatened species. These plans give background information about the species, describe conservation measures, estimate costs, and give recovery goals that when met will allow the species to be removed from the endangered species list. Recovery plans that have been revised or finalized since 1978 are <u>available electronically from the Fish and Wildlife Service</u>.

Survey Protocol and Requirements: See USFWS *Survey Calendar for Listed Plant Species* which can be autogenerated using the IPaC website. The report includes regional flowering plant species lists and survey protocol information. Before a field review is conducted, FDOT, and its consultants, should review flowering, fruiting, and leafing seasonal timeframes; periods when plants are inconspicuous; and seasonal dates when target species have reached maturity.

3. PERMITTING

What activities are prohibited? ESA Section 9(a)(2) states that it is unlawful to remove and reduce to possession any such species from areas under Federal jurisdiction; maliciously damage or destroy any such species on such areas; or remove, cut, dig up or damage or destroy any such species on any other area in knowing violation of any law or regulation of any state or in the course of any violation of a state criminal trespass law. The ESA does not prohibit incidental take of listed plants; however, cautions may be provided in the Biological Opinion on prohibitions against deliberate removal or destruction of plants. Any terms and conditions provided in the Incidental Take Statement are "non-discretionary measures that are necessary and appropriate to minimize the impact of incidental take," in order for the exemption in Section 7(o)(2) of the ESA to apply.

4. AGENCY CONSULTATION

Who is the responsible agency(s)? The USFWS, through Section 6 of the ESA, has established cooperative agreements with the FDACS for the conservation of endangered and threatened plant species.

Federal Nexus for consultation? Federally funded activities, or activities that require a federal permit, which *may affect* listed plants require an ESA (Section 7 or 10) consultation.

Type of Consultation: Consultation occurs through sections 7 and 10 of the ESA. Note that projects that impact listed plants and that do not have the need for a 404 permit (dredge and fill) will require consultation through Section 10.

Demonstrate Avoidance, Minimization, and Mitigation/Commitments: The USFWS requires FDOT to demonstrate that it has fully evaluated avoidance and minimization efforts for listed plants. Relocation or collection for propagation materials (typically in coordination with conservation agencies) are often requested. Efforts can be coordinated with regionally appropriate botanical gardens, parks, and preserves who can provide a suitable relocation area should the project area no longer be sustainable. Examples include <u>Archbold Biological Station</u>, <u>Bok Tower Garden</u>, and <u>Fairchild Tropical Botanic Garden</u>.

In addition, non-agency stakeholders (native plant organizations or members of the public interested in plant conservation), may request the opportunity to relocate non-listed rare plants (i.e., relocations or seed and/or cuttings collection) to maintain species or population viability if avoidance is not feasible. See <u>FDOT Native Florida Plant</u> <u>Coordination Guidance</u>, <u>April 2021</u>. <u>Two Lists of Plant Genera of Special Concern</u> (one for North Florida and one for peninsular Florida) have been developed and can be referenced during project development. These lists are intended as a tool to aid in recognizing that plants within these genera could be of potential interest to stakeholders. These lists are not intended to indicate an additional survey requirement. The FDOT District should notify FDACS and the Endangered Plant Advisory Council when bids for construction projects are first advertised so that opportunities for relocation of rare plants can be evaluated.

Design Plan Notes: Project specific general notes can be added to alert the contractor to avoid activities that may impact listed plants. Examples can include delineating no work or staging zones, protection measures, and stipulating work activities be done by hand rather than heavy equipment that could cause additional impacts.

General timeframes for consultation and permitting: Timely issuance of permits is dependent on scope of work, survey timeframes, avoidance and minimization efforts, and, if necessary, a suitable mitigation plan.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Prior to the commencement of construction, advise personnel that it is a violation of law to trim, alter, remove, collect, or destroy listed plants. Violations are punishable by fines.

Review all environmental permits for Special Conditions related to listed plants. Make sure that construction personnel have copies. Be certain that any permit conditions are strictly followed.

6. TIPS

Tip: Should federally listed plant species be identified within the action area of any project, they need to be considered together with listed wildlife species during consultation to avoid and minimize overall project impacts. Based on consultation with USFWS, listed plants may be transplanted to suitable habitats or removed for propagation (typically in coordination with conservation agencies) in order to avoid direct impacts.

Seasonal restrictions: Field reviews should be planned with botanical expertise in mind and be conducted at the appropriate time of year (i.e., plant is flowering and/or fruiting) to ensure highest probability of being able to confirm presence or absence of the species within the project area.

Internal Coordination: Early internal coordination between environmental, design, and construction is important so that project scope is clear and construction methodology options are available to understand potential impacts to listed plants, as well as to identify avoidance and minimization efforts.

7. PERMITTING

Publications:

- Association of Florida Native Nurseries (<u>https://www.fann.org/</u>)
- Chafin, L.G. 2000. Field Guide to the Rare Plant of Florida. <u>Florida Natural Areas Inventory</u>, Tallahassee, Florida.
- Florida Department of Agriculture and Consumer Services, <u>Florida Statewide Endangered and Threatened Plant</u> <u>Conservation Program</u>, April 2023. Tallahassee, Florida 32399-0800
- Florida Native Plant Society Chapters Florida Native Plant Society (FNPS)
- Florida Wildflower Foundation -Florida Wildflower Foundation (flawildflowers.org)
- Regulated Plant Index FAC Ch5B-40.0055 is available online at: https://www.flrules.org/gateway/notice Files.asp?ID=987089
- Regulated Plant Index FAC Ch5B-40.0055 is available online at: <u>https://www.flrules.org/gateway/notice_Files.asp?ID=987089</u>
- The Florida Statewide Endangered and Threatened Plant Conservation Program, administered via the Florida
 Forest Service, has information at:
 Line //service.init for the plant Conservation program.

http://www.floridaforestservice.com/forest_management/plant_conservation_inde x.html

 Wunderlin, R. P., B. F. Hansen, A. R. Franck, and F. B. Essig. 2023. Atlas of Florida Plant (<u>http://florida.plantatlas.usf.edu/</u>). [S. M. Landry and K. N. Campbell (application development), USF Water Institute.] Institute for Systematic Botany, University of South Florida, Tampa

APPENDIX 2i Red Cockaded Woodpecker

Red-Cockaded Woodpecker

Picoides borealis



STATUS:	Federally listed, Endangered
AGENCY:	U.S. Fish & Wildlife Service (USFWS) and the Florida Fish and Wildlife Conservation
	Commission (FWC)
FDOT DISTRICTS:	Districts 1, 2, 3, 4, 5, 6, 7
HABITAT:	Open pine woodlands and savannahs with large old pines for nesting and roosting habitat
PRIMARY ISSUES:	Section 7 ESA Consultation for activities within suitable habitat and within consultation
	area.
SEASONAL ISSUES:	Nesting season is between April and June

1. CONSERVATION STATUS

Federal Status: The red-cockaded woodpecker (RCW) was listed as endangered in 1970 (35 Federal Register 16047) under the Endangered Species Conservation Act (ESA) of 1969 and carried forward under the subsequent ESA in 1973. It is proposed to be reclassify as threatened with a section 4(d) rule that provided specific prohibitions and exceptions for its conservation.

State Status: In accordance with Chapter 68A-27, F.A.C., the RCW is listed as threatened pursuant to the ESA federal designation.

What other laws may apply? The RCW is protected by the U.S. Migratory Bird Treaty Act (MBTA) and State protected by Florida's adoption of the MBTA (Florida Rule 68A-16) and general prohibition for nest take (Florida Rule 68A-4.001). In accordance with the MBTA, it is illegal for anyone to "take, possess, import, export, transport, sell, purchase, barter, or offer for sale, purchase, or barter, any migratory bird, or the parts, nests, or eggs of such a bird."

2. HABITAT

Description: The RCW is a black and white bird that can reach lengths of 9 inches. RCWs have a large white patch located on their cheek, a black head and neck, a white belly, and a black and white barred "ladder" back. No other Florida woodpecker has a barred "ladder" back and the large, unbroken white cheek patches. The name "red-cockaded" was given to it based on its resemblance to a ribbon or other ornament worn on a hat as a badge. The cockade is a poor indicator because it is rarely seen in the field, but it does identify the sexes of adult birds. Males have the "cockade," while females do not.

Florida Distribution: RCW inhabit open old growth pine (slash, longleaf, and loblolly) ecosystems from the western panhandle through the peninsula to south Florida. Their distribution is tied to old-growth pine forests. The southernmost occurrence of RCW is within the Big Cypress National Preserve in Collier and Monroe counties. Florida has the largest number of active sites representing 25 percent of the nation's RCW population. Many of these sites are located on federal and state managed lands. The highest numbers of RCW can be found within the Eglin Air Force Base and Apalachicola National Forest.

Behavior and Activity to Note: The RCW is a cooperatively breeding species, living in sedentary family groups that consist of a breeding pair with or without one or two helpers. The ecological basis of cooperative breeding is the unusually high variation in habitat quality, due to the presence or absence of a critical resource. This critical resource is the cavities that RCWs excavate in live pines, a task that commonly takes several years to complete. The RCWs dig cavities in living pines softened by heartwood rot. The disease softens the wood and makes the cavity excavation easier. RCWs are unique in their nesting, as they only nest in self-made cavities in live pine trees, as opposed to dead trees which most woodpeckers

prefer. The nesting season for the RCW is between April and June. Eggs hatch after 10 to 12 days of incubation and nestlings fledge from the nest cavity 24 to 27 days after hatching. After fledging, the young birds continue to be fed by adults for up to six months.

Suitable Habitat: RCWs require open pine woodlands and savannahs with large old (generally more than 80 years old) pines for nesting and roosting habitat. Large old pines are required as nest cavity trees because of the higher incidence of the heartwood decay that greatly facilitates cavity excavation. More than one cavity is created within a group of older pines, this is termed a "cluster" and may include one to 20, or more, cavity trees on 3 to 60 acres. The average cluster is about 10 acres. Cavity trees that are being actively used have numerous, small resin wells which exude sap that helps keep tree climbing snakes away. RCW clusters are typically managed and overseen by conservation land managers to maintain suitable conditions. Suitable conditions include abundant foraging habitat of mature pines with an open canopy, low densities of small pines, little or no hardwood or pine midstory, few or no overstory hardwoods, and abundant native bunchgrass and forb groundcovers. Hardwood encroachment resulting from fire suppression is a well-known cause of cluster abandonment.

How to know if you have suitable habitat? RCWs require old pines for cavity excavation selecting those that are generally more than 80 years old. Therefore, tree age and size strongly influence selection of pines for nesting and foraging. Reported sizes above which trees are selected include 20.3 and 25.4 cm (8 and 10 in) diameter at breast height (DBH).

Protection and Management Plan: The main threat to the RCW is the loss and deterioration of habitat. In the late 1800's and early 1900's, pines were extensively logged for their value as lumber and pine communities were transformed into agriculture fields. Chief concerns are degradation of foraging habitat through fire suppression and loss of mature trees, and loss of valuable genetic resources because of small size and isolation of populations. Artificial cavities for RCWs were developed in the late 1980's and early 1990's and have since revolutionized management of RCWs. Prior to their development, biologists were unable to address the severe limitation in cavities impacting most populations, and therefore had little ability to slow the decline of the species. With the advent of artificial cavity technology, cavities and entire clusters can be provided. Current RCW populations are highly dependent on active conservation management with prescribed fire and compatible silvicultural methods to regulate forest composition and structure. Cooperation among federal agencies (specifically, the USFWS, the U.S. Forest Service, the U.S. Departments of Defense and Energy, and the National Park Service) is required in the management of core areas. Cooperation of federal, state, and local agencies, corporations, and individuals is being fostered for the management of RCWs on state and private lands.

Designated Protection Area or Critical Habitat: No critical habitat has been designated; however, RCW Consultation Areas and maps of regional RCW clusters may be available upon request to USFWS.

Survey Protocol and Requirements: RCW cavity trees are conspicuous, and therefore not difficult to determine whether a particular area is being used for breeding. Habitats that warrant surveying include old growth (generally trees greater than 80 years old) pinelands or pine-dominated pine/hardwood stands, or younger stands with scattered mature pines. Walking linear transects, spaced according to the visibility afforded by the vegetation present, usually 30 to 80 m apart, is the most effective technique for locating cavity trees. Cavities can be treated as active if the tree is living and the resin is flowing. Cavities in living trees that have not been enlarged by other species but with dry, caked and discolored (usually grayish or greenish) resin can be treated as inactive. It is more complex to determine whether an area is being used as foraging habitat by RCW as clusters are typically under active conservation management. Consult with the regional USFWS ETAT representative on presence of RCW clusters if suitable habitat is identified within the project area.

3. PERMITTING

What activities are prohibited? Section 9 of the ESA and its implementing regulations (50 CFR § 17.31) prohibit any person from taking of RCW. Regulations governing permits for threatened wildlife are codified at 50 CFR 17.32. Activities that can impact these species include removal of old growth pine or activities that will compact roots and soils around mature pine trees.

What kinds of activities can permits authorize? Permit authorization is based on the proposed project scope, location, type of impact, and measures (such as project components, construction precautions, or conservation measures) taken to avoid or minimize effects to the RCW.

4. AGENCY CONSULTATION

Who is the responsible agency(s) for this species? The USFWS and FWC share responsibility; however, the USFWS is the lead agency for the purpose of permitting. A Partners Agreement between the Florida Fish and Wildlife Conservation Commission and the Service solidifies commitments by both agencies to jointly provide oversight of land management, acquisition, species monitoring, and translocations as needed to maintain and improve the species' status.

Federal Nexus for consultation? Federally funded activities or activities that require a federal permit that *may affect* the RCW requires an ESA effects determination and consultation.

Type of Consultation: Consultation through sections 7 and 10 of the ESA is required.

Demonstrate Avoidance, Minimization, and Mitigation/Commitments: FDOT must demonstrate avoidance and minimization to RCW and its habitat. The philosophy guiding mitigation is that there be no net loss of RCW clusters/groups, and a primary objective is to assure that the status of the species as a whole is better following mitigation than before. Mitigation of impacts to RCW is generally achieved through the establishment of a cluster/group in another location, for every group that is affected by the proposed action. In general, the minimum required ratio of newly established to impacted groups is one to one.

Federal or State Species Effects Determination Keys: No determination key.

Design Plan Notes: Project specific general notes can be added to alert the contractor to avoid activities that may impact the RCW and its habitat.

General timeframes for consultation and permitting: Timely issuance of permits is dependent on completion of informal or formal consultation with the USFWS regarding potential impacts to the RCW. Consultation can be a lengthy process so begin early.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Prior to the commencement of construction, advise personnel that it is a violation of law to intentionally take, harass, wound, or kill an RCW. Any person who violates this provision is guilty of a felony of the third degree, punishable by fine, or both.

Review all environmental permits for Special Conditions and conservation measures related to the RCW. Make sure that construction personnel have copies. Be certain that the condition(s) is strictly followed.

6. TIPS

Tip: The ETDM Environmental Screening Tool has a dataset that contains the USFWS RCW Consultation Areas. In addition, there is a GIS layer for RCW Occurrences, this shapefile contains location information on the RCW collected by various state and federal agencies. The dataset includes locations of active and inactive nest trees and centroids of cluster locations. Note that information is general and should not be used as a definitive representation of RCW occurrence.

Seasonal restrictions: No seasonal restrictions.

Internal Coordination: Early internal coordination between environmental, design, and construction is important so that project scope is clear and construction methodology options are available to understand potential impacts to the RCW, as well as to identify avoidance and minimization efforts.

7. RESOURCES

Lead Specialist(s) for Agencies on this species? Yes, RCW specialists can be found with USFWS. Contact the regional USFWS ETAT representative for specific guidance.

Publications:

• Baker, W.W., R.L. Thompson, and R.T. Engstrom. 1980. The distribution and status of red-cockaded woodpecker colonies in Florida: 1969-1978. Florida Field Naturalist 8:41-45.

- Cox, J., W.W. Baker, and D. Wood. 1995. Status, distribution, and conservation of the red-cockaded woodpecker in Florida: a 1992 update. Pages 457-464 in D.L. Kulhavey, R.G. Hooper, and R. Costa, eds. Red-cockaded woodpecker: recovery, ecology, and management. Center for Applied Studies in Forests, College of Forestry, Stephen F. Austin State University, Nacogdoches, Texas. Crosby, G.T. 1971. Ecology of the red-cockaded woodpecker in the nesting season. M.S. thesis; University of Florida; Gainesville, Florida.
- DeLotelle, R. S. and R. J. Epting. 1992. Reproduction of the red-cockaded woodpecker in central Florida. Wilson Bulletin 104:285-294. DeLotelle, R.S., R.J. Epting and J.R. Newman. 1987. Habitat use and territory characteristics of red-cockaded woodpeckers in central Florida. Wilson Bulletin 99:202-217.
- Henry, V.G. 1989. Guidelines for preparation of biological assessments and evaluations for the red-cockaded woodpecker. U.S. Fish and Wildlife Service; Atlanta, Georgia.
- FWC (February 23, 2023), <u>Red-cockaded Woodpecker | FWC (myfwc.com)</u>
- USFWS. (1970, October 13). USFWS Federal Register. Retrieved from Appendix D United States List of Endangered Native Fish and Wildlife: https://ecos.fws.gov/docs/federal_register/fr27.pdf.
- USFWS, April 11, 1985, <u>Recovery Plan for the Red-cockaded Woodpecker Second Revision</u>, <u>Southeast Region</u>, <u>Atlanta</u>, GA
- USFWS. (2003, January 27). USFWS ECOS. Retrieved from Recovery Plan for the Red-cockaded Woodpecker (*Picoides borealis*): <u>https://ecos.fws.gov/docs/recovery_plan/030320_2.pdf</u>
- USFWS. (2020). <u>USFWS Species Status Assessment Report for the Red-cockaded Woodpecker</u>, Version 1.3, April 2020, Atlanta, GA
- USFWS. (2020, February 3). US Federal Register. Vol 87, No. 23. Endangered and Threatened Wildlife and Plants; Reclassification of the Red-Cockaded Woodpecker From Endangered to Threatened With a Section 4(d) Rule: 2022-02006.pdf (govinfo.gov)
- USFWS (2023, Feb. 23) Species Profile for Red-cockaded woodpecker (Picoides borealis) (fws.gov)

APPENDIX 2j Sea Turtles

Sea Turtles



STATUS:	Federal, Endangered and Threatened	
AGENCY:	U.S. Fish & Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), and the Florida Fish and Wildlife Conservation Commission (FWC)	
FDOT DISTRICTS:	All FDOT Districts with beaches and coastal waters	
HABITAT:	Beaches and coastal waters	
PRIMARY ISSUES:	Section 7 ESA Consultation regarding beach and in/over coastal waters	
SEASONAL ISSUES:	Nesting Season – March 1 st through October 31 st (may vary depending on County)	

1. CONSERVATION STATUS

Federal Status: Florida's five species of sea turtles are listed as either endangered or threatened under Endangered Species Act (ESA) (16 U.S.C. 1531 et, seg.). The loggerhead sea turtle is the only species listed as threatened in Florida. The U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) share jurisdiction with USFWS having lead responsibility on nesting beaches and NMFS within marine waters.

State Status: Sea turtles are protected in accordance with Chapter 68A-27, Florida Administrative Code (F.A.C.), which states that sea turtles are listed pursuant to the ESA federal designation. FWC is granted a collaborative role through a Cooperative Agreement with USFWS under Section 6 of the ESA for permitting review.

Other Applicable Laws: In addition to the ESA, sea turtles are protected under <u>Florida's Marine Turtle Protection Act, section</u> <u>379.2431, Florida Statutes (F.S.)</u> and the <u>Coastal Construction Control Line (CCCL)</u> Program under Chapter 62B-33, F.A.C. which evaluates affected sea turtles and nesting beaches. The CCCL permit program (see appendix on CCCL) is administered jointly by the Florida Department of Environmental Protection (FDEP) and FWC. The state also has developed a model lighting ordinance (<u>62B-55, F.A.C.</u>) wildlife sensitive lighting to guide local governments in creating lighting ordinances. If working off system, FDOT is required to follow county and municipal ordinances regarding lighting. Go to <u>Municipal Code Corporation</u> web site (see the following: <u>List of the Counties/Municipalities with these Ordinances</u> & <u>Map of the Counties/Municipalities with these Ordinances</u>.

2. ECOLOGY & MANAGEMENT

Description: Sea turtles are large sea reptiles with scales and a bony shell. They inhabit near and offshore coastal waters and tidal estuaries of Florida. Seven species of sea turtles are known worldwide; Florida has five species as residents and occasional visitors. The five species include loggerhead (*Caretta caretta*), Kemp's ridley (*Lepidochelys kempii*), Green (*Chelonia mydas*), Hawksbill (*Eretmochelys imbricata*), Leatherback (*Dermochelys coriacea*). All have been recorded as nesting on Florida beaches. However, the hawksbill (primarily nests in the Caribbean) and the Kemp's ridley (within the Gulf of Mexico) are less common. The loggerhead is the most abundant nesting sea turtle in Florida.

Florida Distribution: All areas with beaches and coastal waterways, estuaries, and bays.

Suitable Habitat: Sea turtle nest on beaches throughout Florida and their nesting activities are monitored through a variety of groups and agencies including non-for-profits, local and County governments, and FWC. This monitoring is overseen through sea turtle permits for sections of beaches. This information is available for review - <u>http://myfwc.com/research/wildlife/sea-turtles/nesting/</u>. While in the marine environment, suitable habitat for sea turtles is dictated by the species feeding behavior. Loggerheads feed primarily on mollusks and crustaceans; Kemp's ridley on crabs; hawksbill on sponges and is most often associated with coral reef communities; green feeds primarily on seagrasses and algae, and leatherback on jellyfish offshore.

Identification of Suitable Habitat: If your project is near coastal beaches (lighting issues), on a beach, or in/over coastal waterways your project is likely within an area where sea turtles may be present.

Behavior and Activity to Note: Artificial lights near beaches can deter sea turtles from nesting and disorient hatchlings. Sea turtle hatchlings will travel inland toward artificial lights where they often die from dehydration, are preyed upon, or crawl onto roads or into drainage structures. To learn more, go to: <u>http://myfwc.com/research/wildlife/sea-turtles/threats/artificial-lighting/</u>. The following project relative activities can impact sea turtles, nesting, and hatchlings: beach armoring, artificial lighting, beach nourishment, seawalls, and vehicular traffic.

Protection and Management Plans: The USFWS and NMFS have created species specific recovery plans under Section 4 of the ESA. Each plan includes management actions to conserve the species; measurable criteria; and estimates of the time and funding required to achieve the plan's goals. These plans break recovery efforts into regional units based on nesting assemblages.

Designated Protection Area or Critical Habitat: The USFWS designated critical coastal beach habitat in peninsular Florida and the panhandle as important for the recovery of the Northwest Atlantic Ocean population of loggerhead sea turtles. To see a map, go to: <u>https://fws.maps.arcgis.com/home/item.html?id=9d8de5e265ad4fe09893cf75b8dbfb77#!</u>

Survey Protocol and Requirements: An FWC Marine Turtle Permit is required for nesting surveys and protection activities (Rule 68E-1, F.A.C). To learn more, go to: <u>http://myfwc.com/license/wildlife/marine-turtle-permit/</u>.

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): The applicable agency for sea turtles in water is NMFS, and for beaches the USFWS and FWC. FWC issues permits for activities involving interactions with sea turtles, their nests, eggs, and hatchlings under the Marine Turtle Protection Act, Section 379.2431(1), Florida Statute. FWC also has authority granted to the state through a Cooperative Agreement with the USFWS under Section 6 of the ESA.

Federal Nexus for Consultation: Any federally funded activity conducted and/or permitted that *may affect* sea turtles requires an ESA effects determination and consultation.

Type of Consultation: Some beach activities, such as beach lighting, can be challenging to determine what level of consultation will be required. Begin with reaching out to your regional USFWS representative and/or FWC representative for your proposed project area. For over/in-water informal work, consult with the NMFS ETAT representative.

Demonstrate Avoidance, Minimization, and Mitigation: The regulatory agencies will look for ways in which FDOT can avoid and minimize impacts to sea turtles and beach habitat. For over/in-water work activities implement the NMFS's *Sea Turtle and Smalltooth Sawfish Constriction Conditions*. For beaches options may include, but not limited to, avoiding work during sea turtle nesting season, using lighting fixtures approved by regulatory agencies, avoiding night work, daily surveys, and avoidance of materials that sea turtles may become entangled in.

Tools for Section 7 ESA Consultation: No federal sea turtle effects determination key.

Special Provisions, or Standard Protection Measures: For over/in-water activities, NMFS Southeast Regional Office (SERO) has created <u>Protected Species Construction Conditions</u> and <u>Vessel Strike Avoidance Measures</u>. In addition, FDOT has Special Provisions expanding the existing requirements when sea turtle involvement exists within the project limits.

To see FDOT's Sea Turtle Special Provisions, go to <u>https://fdotwww.blob.core.windows.net/sitefinity/docs/default-</u>source/programmanagement/implemented/workbooks/janworkbook2022/sp0070104-6-122.pdf?sfvrsn=f3e7f031_2.

General Timeframes for Consultation and Permitting: Timely issuance of permits is dependent on completion of informal or formal consultation with the USFWS, FWC and/or NMFS regarding potential impacts to sea turtles. Consultation can be a lengthy process so begin early.

4. PERMITTING

Prohibited Activities: The ESA makes it illegal to harass, harm, pursue, wound, kill, capture, or collect, or to attempt to engage in any such conduct. Incidental take of sea turtles may occur due to beach armoring, artificial lighting, beach nourishment, vehicular traffic, or any coastal activity that might interfere with nesting adults, nests, or emergent hatchlings. Additional information about incidental take is available at:

https://fwsepermits.servicenowservices.com/fws?id=fws_kb_view&sys_id=adc55dfd1b1f50101f45dbdbe54bcbb5.

Activities Authorized by Permit: Permit authorization is based on the proposed project scope, location, type of impact, and measures (such as project components, standard construction precautions, or special conditions) taken to avoid or minimize effects to sea turtles or nesting beach habitat.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review all Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to sea turtles. Make sure that construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: Identify who has an FWC Sea Turtle Permit for the beach where work is proposed. Note those who are consultants, as not all FWC permit holders are authorized to work on construction projects.

Seasonal Restrictions: Avoid work activities on beaches during sea turtle nesting season, March through October.

Survey Restrictions: Annual nest monitoring occurs throughout the State's beaches through the Florida Sea Turtle Nesting Beach Monitoring Program overseen by the Fish and Wildlife Research Institute (FWRI) and FWC. This data can be accessed through the Florida Sea Turtle Nesting Database:

https://myfwc.maps.arcgis.com/apps/webappviewer/index.html?id=8e6e45efc47a4c69941ddcb097cb195a.

To request specific sea turtle nesting data for beach projects an informal email request can be made to FWC requesting.

7. RESOURCES

Web Resources*

- Florida's Marine Turtle Protection Act (379.2431, Florida Statutes) http://www.leg.state.fl.us/statutes/index.cfm?mode=View%20Statutes&SubMenu=1&App_mode=Display_Statute&Searc_h_String=Marine+Turtle+Protection+Act&URL=0300-0399/0379/Sections/0379.2431.html
- FWC Sea Turtles and Artificial Lighting <u>http://myfwc.com/research/wildlife/sea-turtles/threats/artificial-lighting/</u>
- FDEP CCCL Program
 <u>https://floridadep.gov/water/coastal-construction-control-line</u>
- FWC Marine Turtle Handbook https://myfwc.com/media/3133/fwc-mtconservationhandbook.pdf
- Memorandum of Understanding defining the roles of the U.S. Fish and Wildlife Service and NOAA Fisheries in Joint Administration of the Endangered Species Act of 1973 as to sea turtles. <u>https://www.fisheries.noaa.gov/resource/document/noaa-fisheries-and-us-fws-memorandum-understanding-sea-turtles</u>
- NMFS designated marine critical habitat for the Northwest Atlantic Ocean <u>https://www.fisheries.noaa.gov/resource/map/loggerhead-turtle-northwest-atlantic-ocean-dps-critical-habitat-map</u>
- NMFS SERO Protected Species Construction Conditions and Vessel Strike Avoidance Measures <u>Protected Species</u> <u>Construction Conditions</u>
- NMFS SERO <u>Vessel_Strike_Avoidance_Measures</u>

Lead Specialist(s) for Agencies on this Species:

- Karen Frutchey, Regional Sea Turtle Coordinator, U.S. Fish and Wildlife Service, 7915 Baymeadows Way, Suite 200, Jacksonville, Florida 32256; Telephone: (904) 731-3336; Karen Frutchey@fws.gov.
- To find a Sea Turtle Permit Holder: FWC 561-882-5975

Publications:

- Bjorndal, Karen A. (Editor). 1995. Biology and Conservation of Sea Turtles. Smithsonian Institution Press.
- Eckert, Karen L., K.A. Bjorndal, F.A. Abreu-Grobois and M. Donnelly (Editors). 1999. *Research and Management Techniques for the Conservation of Sea Turtles*. IUCN/SSC Marine Turtle Specialist Group Publication No. 4.
- Godley, Brenden J., J.M. Blumenthal. A.C. Broderick, M.S. Coyne, M.H. Godfrey, L.A. Hawkes, and M.J. Witt. 2008. *Satellite Tracking of Sea Turtles: Where have we been and where do we go next?* Endangered Species Res. Vol 4: 3-22.
- Johnson, Steve A., Karen A. Bjorndal and Alan B. Bolten. 1996. *Effects of Organized Turtle Watches on Loggerhead* (*Caretta caretta*) Nesting Behavior and Hatchling Production. Conservation Biology. Vol. 10: 570-577.

- Lorne, Jacquelyn K. and Michael Salmon. 2007. *Effects of Exposure to Artificially Lighting on Orientation of Hatchling Sea Turtles on the Beach and in the Ocean*. Endang Species Res. Vol. 3:23-30.
- Lutz, Peter L. and John A. Musick (Editors). 1997. *The Biology of Sea Turtles*. National Marine Fisheries Service Southeast Fisheries Science Center (NMFS). 2008. Sea Turtle Research Techniques Manual. NOAA Technical Memorandum NMFS-SEFSC-579, 92 pp.

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 2k Smalltooth Sawfish

Smalltooth Sawfish Pristis pectinata



STATUS:	Federally Listed, Endangered; Protected Critical Habitat
AGENCY:	National Marine Fisheries Service (NMFS)
FDOT DISTRICTS:	All Districts and Florida's Turnpike Enterprise (Enterprise) – Critical Habitat located within District 1 and 6
HABITAT:	Shallow inlets, red mangrove coastlines, sandy shoals, and mouths of canals
PRIMARY ISSUES:	Consultation for species impacts or work within Critical Habitat
SEASONAL ISSUES:	No seasonal restrictions for smalltooth sawfish

1. CONSERVATION STATUS

Federal Status: Smalltooth sawfish is listed as *endangered* under the Endangered Species Act (ESA) (68 FR 15674, April 1, 2003). The smalltooth sawfish was the first marine fish to receive protection under the ESA.

State Status: In Florida, the sawfish has been protected from collection since 1992. Today, in accordance with Chapter 68A-27, F.A.C., the smalltooth sawfish is state listed as *endangered* pursuant to the ESA federal designation.

Other Applicable Laws: The Fish and Wildlife Coordination Act (FWCA) provides the authority for the National Marine Fisheries Service (NMFS) involvement in evaluating water resource development projects. In addition, the smalltooth sawfish is protected pursuant to the Essential Fish Habitat (EFH) program as part of the Magnuson-Stevens Fishery Management & Conservation Act and is incorporated into fisheries management plans which the South Atlantic Fisheries Management Council, NMFS, and the state use to manage and conserve fisheries habitat.

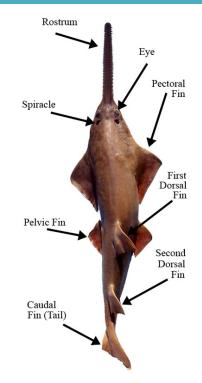
2. ECOLOGY & MANAGEMENT

Description: The smalltooth sawfish is a relative of sharks, skates and rays. They are long-lived and reproduce in low numbers making them susceptible to environmental degradation. They have a shark like appearance with a ventrally flattened head. The most distinct characteristic is their snout which is long, narrow, and blade like with a series of transverse teeth along the edges. This saw-like appearance gives them their name.

Florida Distribution: Smalltooth sawfish have been reported throughout coastal Florida including the Gulf coast, Atlantic coast, and throughout coastal waterways. The highest populations of sawfish are found off the southwest coast of Florida, from Charlotte Harbor through the Everglades region at the southern tip of the state.

Suitable Habitat: The smalltooth sawfish is a tropical species that inhabits brackish and marine waterways such as, canal mouths, inlets, intercoastal waterways, red mangrove shorelines, oyster bars, and seawall-lined canals. Suitable habitat includes muddy or sandy bottoms in shallow waters. Juvenile sawfish can also be found in the lower reaches of freshwater river systems and even further inland if freshwater flows are reduced. Factors to consider for sawfish include water temperature (warmer than 64°F), water depth, shoreline vegetation, and salinity.

Identification of Suitable Habitat: A desktop review of FDOT's Environmental Screening Tool (EST), which includes NMFS data on EFH, will provide a preliminary determination of whether or not smalltooth sawfish suitable habitat may be present. Or go directly to <u>NMFS's EFH Mapper</u>. In addition, shallow (water depths between MHWL and 3 ft.) coastal habitats such as red mangroves,



Florida Museum https://www.floridamuseum.ufl.edu/discoverfish/sawfish/anatomy/

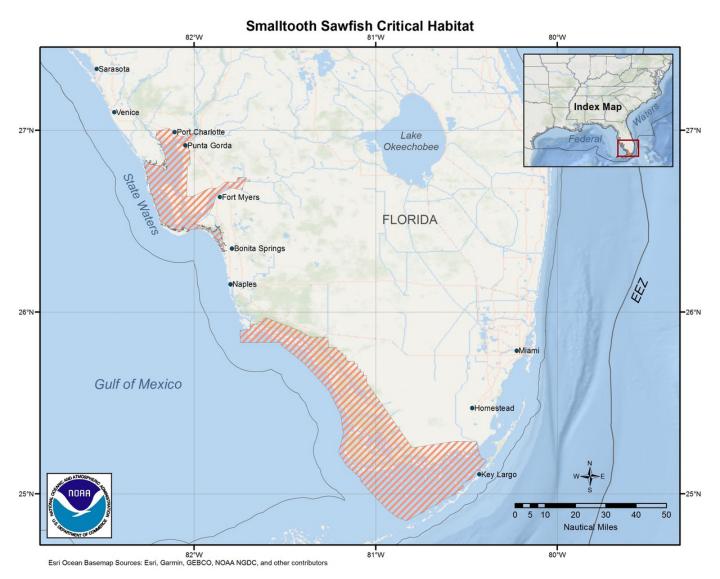
oyster beds, and seagrass beds would be considered by NMFS as suitable habitat/EFH. Lastly, consult the <u>NMFS Critical Habitat map.</u>

Behavior and Activity to Note: Smalltooth sawfish seek refuge as juveniles in shallow coastal habitats such as red mangroves and tidal coastal areas. Little is known about the behavior of adults; however, it is believed that they occupy deeper coastal areas and travel significant distances along Florida's coastline. Both juveniles and adults feed on schooling fish and crustaceans using their "saw" to slash through schools of fish. Their snout contains electro-sensitive organs, which can sense the weak amount of electricity produced by other animals.

Protection and Management Plans: NMFS has approved a Final Recovery Plan for smalltooth sawfish (NMFS, January 2009). The goal is to rebuild and assure long-term viability of the smalltooth sawfish in the wild. The plan proposes achieving this by minimizing human interactions, protecting and restoring habitat, and ensuring abundance so that previously occupied habitats become occupied once again.

Designated Protection Area or Critical Habitat: Sawfish Critical Habitat includes two units located along the southwest coast of peninsular Florida. The northern unit is Charlotte Harbor Estuary, and the southern unit is the Ten Thousand Islands/Everglades area. These units encompass Charlotte, Lee, Collier, Monroe, and Miami-Dade Counties. Go to: https://www.fisheries.noaa.gov/resource/map/smalltooth-sawfish-critical-habitat-map-and-gis-data.

Survey Protocol and Requirements: Surveys are not required for smalltooth sawfish, however if the project is occurring in EFH it must be documented in the permit.



3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): Smalltooth sawfish is directly protected by provisions of the ESA under NMFS jurisdiction. If you anticipate impacts to smalltooth sawfish and/or critical habitat, consult with NMFS through your ETAT representative.

Federal Nexus for Consultation: Any project that is authorized, funded, or requires a federal permit will need to conduct consultation under the ESA Section 7 to determine whether the project will impact smalltooth sawfish or result in the adverse modification to critical habitat.

Type of Consultation: The type of consultation, Informal and Formal, will depend on results of FDOT's analysis of whether the proposed project will have an adverse effect on the species and its Critical Habitat. If a proposed action *may affect* a smalltooth sawfish or its Critical Habitat, formal consultation is required. Note that EFH consultation may also be necessary separate from the Section 7 ESA consultation if red mangrove and seagrass are present.

Demonstrate Avoidance, Minimization, and Mitigation: FDOT shall demonstrate to NMFS that it is making all efforts to avoid, minimize and mitigate for potential impacts to the smalltooth sawfish and its critical habitat. This effort is essential to the consultation process and may include such commitments as: modifying proposed plans to avoid EFH; altering construction methodology to avoid in-water work; creating pile driving ramp-up procedures that ensure that full hamming power was only administered after a period of low-energy blows; using pile driving cushion pads; and, adhering to the construction conditions found in the NMFS South East Regional Office (SERO) <u>Protected Species Construction Conditions</u> and <u>Vessel Strike Avoidance Measures</u>

Tools for Section 7 ESA Consultation: In 2017, the USACE and NMFS issued a Programmatic Biological Opinion (PBO), referred to as JaxBO (see Appendix on Programmatic Agreements and Biological Opinions), which allows for the streamlining of the Section 7 ESA process for groups of frequently occurring activities and Federal action agency policies, plans, programs that have well-understood effects on listed species and designated habitat including smalltooth sawfish and its Critical Habitat. The JaxBO provides a tool to address consultation for ten categories of "in-water" activities including: shoreline stabilization; pile-supported structures; maintenance, minor, and muck dredging; water-management outfall structures and associated endwalls; scientific survey devices; boat ramps; aquatic habitat enhancements, established, and restoration activities; transportation and utility lines; marine debris removal; and, temporary platforms, fill, and cofferdams. To view the JaxBo, go to: https://cdm16021.contentdm.oclc.org/utils/getfile/collection/p16021coll3/id/577.

Special Provisions, or Standard Protection Measures: Standard Construction Provisions are available through the NMFS SERO <u>Protected Species Construction Conditions</u> and <u>Vessel Strike Avoidance Measures</u>. In addition, FDOT has <u>Special Provisions</u> that expand the existing requirements when it is known that smalltooth sawfish involvement exists within the project limits.

General Timeframes for Consultation and Permitting: Early consultation is highly recommended if you have impacts to smalltooth sawfish, critical habitat, and/or EFH. Formal ESA Consultation can take as long as 180 days and may conclude with a finding of *jeopardy* thus preventing authorization of permits. Note that EFH consultation is separate from Section 7 ESA consultation and is often conducted concurrently.

4. PERMITTING

Prohibited Activities: Any direct (dredging, filling, etc.) or indirect impacts from a proposed project to smalltooth sawfish and its critical habitat without a permit would be considered unlawful under the ESA.

Activities Authorized by Permit: Permit authorization is based on the proposed project location and description; the potential effects to smalltooth sawfish, EFH, and/or sawfish critical habitat; and any measures (such as project components, standard construction precautions, or special conditions included in the authorization) to avoid or minimize effects to the smalltooth sawfish and its critical habitat.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review all Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to smalltooth sawfish and its Critical Habitat. Make sure that construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: In coordination with FDOT's Office of Environmental Management (OEM), reach out to your NMFS ETAT representative to informally discuss the consultation process, JaxBO PBO, and to receive guidance on possible avoidance, minimization, and mitigation options.

Seasonal Restrictions: No seasonal restrictions for smalltooth sawfish.

Survey Restrictions: No survey restrictions; however, determining whether suitable habitat exists will be required for consultation.

7. RESOURCES

Web Resources*

- NMFS Essential Fish Habitat Mapper https://www.habitat.noaa.gov/apps/efhmapper/
- NMFS Smalltooth Sawfish Species Profile <u>https://www.fisheries.noaa.gov/species/smalltooth-sawfish</u>
- Federal Register for Designation of Critical Habitat for Smalltooth Sawfish <u>https://www.federalregister.gov/documents/2009/09/02/E9-21186/endangered-and-threatened-species-critical-habitat-for-the-endangered-distinct-population-segment-of</u>
- ESA Listing Rule for Five Species of Sawfish (79 FR 73978; December 12, 2014) https://www.fisheries.noaa.gov/action/listing-5-species-foreign-sawfish-under-esa
- Smalltooth Sawfish Critical Habitat Maps and Shape File Data <u>https://www.fisheries.noaa.gov/resource/map/smalltooth-sawfish-critical-habitat-map-and-gis-data</u>
- 5-Year Review for the U.S. Distinct Population Segment of smalltooth sawfish (2018) https://www.fisheries.noaa.gov/resource/document/5-year-review-smalltooth-sawfish-pristis-pectinata
- Smalltooth Sawfish Recovery Plan (2009) https://www.fisheries.noaa.gov/resource/document/recovery-plan-smalltooth-sawfish-pristis-pectinata
- Smalltooth Sawfish Recovery Implementation Team (2018) <u>http://www.sawfishrecovery.org/</u>

Lead Specialist(s) for Agencies:

- For more information on smalltooth sawfish, contact Adam Brame, Phone: (727) 209-5958, E-mail: <u>Adam.Brame@noaa.gov</u>
- You can also call (844) 4SAWFISH to make reports and to request information on the species. You can also make reports to sawfish@MyFWC.com or (941) 255-7403, or through the International Sawfish Encounter Database.

Publications: To see a list of reference, go to: https://www.floridamuseum.ufl.edu/sawfish/references/

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 2I Wood Stork

Wood Stork Mycteria Americana



STATUS:	Federal, Threatened	
AGENCY:	U.S. Fish & Wildlife Service (USFWS)	
FDOT DISTRICTS:	All Districts and the Florida's Turnpike Enterprise (Enterprise)	
HABITAT:	Shallow freshwater and estuarine marshes, swamps, lagoons, ponds, tidal creeks, flooded pastures, and ditches.	
PRIMARY ISSUES:	Suitable Foraging Habitat impacts -wetland and surface waters	
SEASONAL ISSUES:	Seasonal nesting restrictions	

1. CONSERVATION STATUS

Federal Status: The wood stork was listed as *endangered* under the Endangered Species Act (ESA) (16 U.S.C. 1531 et, seg.) in 1984 (49 Federal Register 7332) due to declining populations from the loss of habitat and alterations to historic seasonal water fluctuations. The USFWS amended its status in 2014 to *threatened* based on the fact that while habitat loss and wetland fragmentation continue, there has been an increase in abundance and an expansion of their breeding range.

State Status: In accordance with Chapter 68A-27, FL Administrative Code (F.A.C), the wood stork is state listed as *threatened* pursuant to the ESA federal designation.

Other Applicable Laws: In addition to the ESA, the wood stork is protected by the U.S. Migratory Bird Treaty Act (167 U.S.C. 703-711). Impacts to wood stork suitable foraging habitat (SFH) is also intertwined with the protection of wetlands and tidal waters (Clean Water Act).

2. ECOLOGY & MANAGEMENT

Description: The wood stork is a large wading bird that is white in color except for black tips on the wings. The wood stork has a long, downward-turned bill. The head and upper neck of the adult wood stork has no feathers and is gray with scaly skin. Juveniles have feathers on their necks. Also, juvenile bills tend to have a lighter color than adults. The wood stork is North America's only native stork and the largest wading bird species.

Florida Distribution: The wood stork can be found throughout Florida and within all FDOT Districts. Wood storks are gregarious birds that nest in breeding colonies. During the breeding season, wood stork distribution is more closely associated with active nesting colonies. After breeding, the birds disperse over a wide area with annual variation based on environmental conditions. To see the colony map, go to: <u>2018 Wood Stork Colonies (USFWS)</u> or <u>Florida Wood Stork Foraging Areas (Florida Department of Environmental Protection)</u>.

Suitable Habitat: Wood storks can occur in a wide variety of wetland habitats and surface waters. Suitable Foraging Habitat (SFH) includes freshwater and estuarine marshes, ponds, seasonally flooded roadside and agricultural ditches, tidal creeks and tidal pools, managed impoundments, and depressions in cypress heads and swamp sloughs. Due to their specialized tactile feeding behavior, storks forage most effectively in shallow-water areas with concentrated prey. They seek calm water that is uncluttered by dense thickets of aquatic vegetation. The wood stork is a gregarious species, which nests in colonies, and roosts and feeds in flocks, and is often found with other species of wading birds.

Identification of Suitable Habitat: The following desktop tools can provide guidance on whether suitable foraging habitat and CFAs are located within your project area: FDOT's <u>Environmental Screening Tool (EST)</u>, <u>USFWS Wetland Mapper</u>, <u>FWC Water Bird</u> <u>Locator Interactive Map</u>, and the USFWS Effect Determination Keys (<u>South Florida</u>, <u>Central and North Peninsular Florida</u>). In addition, upon request, the USFWS provides maps on the locations of the nesting colonies and CFAs.

Behavior and Activity to Note: Wood storks forage by touch in shallow water. Seasonal hydrology and available prey are key factors when conducting a Wood Stork Impact Functional Assessment (WSIFA).

Protection and Management Plans: A *Wood Stork Recovery Plan* was first created in 1986 and focused on wetland preservation and restoration, protection of nesting areas, and management of water flows. It was revised in 1997 and augmented with a south Florida recovery strategy in 1999 and a *Wood Stork Recovery Action Plan* in 2009.

Designated Protection Area or Critical Habitat: No Critical Habitat has been designated for the wood stork. However, the USFWS has designated Wood Stork Nesting Colonies (WSNC) and Core Foraging Areas (CFA). The USFWS recognizes an 18.6-mile CFA in south Florida; 15-mile CFA in central Florida; and 13-mile CFA in north Florida around wood stork colonies that have been documented as active within the last 10 years. The USFWS protects suitable forging habitat (SFH, i.e., wetlands) within CFA that if impacted may reduce foraging opportunities for the nesting colony. USFWS requires mitigation compensation for CFA impacts based on wetland type, location, function, and value (hydrology, vegetation, prey utilization) to ensure that wetland functions lost are adequately replaced. Wetland mitigation submitted must be of the same hydroperiod and located within the CFA of the affected colonies. In some special cases, through consultation, the USFWS may accept wetland credits purchased from a "Service Approved" mitigation bank located outside the CFA depending on location of impacted wetlands relative to the permitted service area of the bank, and whether the bank includes the same hydroperiod as the impacted wetland.

To determine the effect of a project on the wood stork, the USFWS has developed two helpful guides:

• Species effect determination key for establishing the potential effects of proposed projects.

<u>South Florida:</u>

https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/wood_stork/20100518_letter_ ServicetoCorps_FLProgrammaticStorkrevised.pdf

North and Central Florida

https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/wood_stork/JAX_WoodStork Key_Sep2008.pdf

• A Wood Stork Impact Functional Assessment (WSIFA) guide to estimate the biomass of wood stork forage provided per unit quantity of wetland habitat. The assessment is to be applied to both wetlands being impacted and the wetlands proposed as mitigation. The USFWS has four parameters in the estimation of the biomass: vegetation density, wetland hydroperiod, prey size suitability, and competition with other wading bird species for forage. To see the WSIFA methodology, go to:

https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/wood_stork/20100518_letter_Servic etoCorps_FLProgrammaticStorkrevised.pdf

Survey Protocol and Requirements: No specific USFWS field survey protocol exists for wood storks.

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): The USFWS, through section 7 of the ESA, reviews federal permit applications for projects that may impact wood storks and suitable foraging habitat. As part of the review, the USFWS will recommend ways to avoid or minimize the effects.

Federal Nexus for Consultation: Any federally funded activity conducted or permitted that *may affect* the wood stork (see effect determination key) requires an ESA effects determination and USFWS consultation.

Type of Consultation: To determine the type of consultation required (formal or informal), review the *Wood Stork Effect Determination Key (May 2010).* Wetland impact acreage and WSIFA may also be required by USFWS to determine impacts and the amount of mitigation required.

Demonstrate Avoidance, Minimization, and Mitigation: The USFWS will look for ways in which FDOT can avoid and minimize impacts to suitable foraging habitats. Unavoidable impacts will need to be mitigated for which may include conducting a foraging analysis of the prey biomass (WSIFA). The USFWS accepts the replacement in-kind of wet ditches and swales. **NOTE** that foraging buffer radius changes: South Florida Counties: 18.6 miles; Central Florida Counties; 15 miles; North Florida Counties: 13 miles.

Tools for Section 7 ESA Consultation:

• A species effect determination key is available for establishing the potential effects of proposed projects.

South Florida

https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/wood_stork/20100518_letter_ ServicetoCorps_FLProgrammaticStorkrevised.pdf

North and Central Florida

https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/wood_stork/JAX_WoodStork Key_Sep2008.pdf

• The use of the determination key will provide guidance on the type of consultation required.

Special Provisions, or Standard Protection Measures: No standard provisions. However, FDOT District Four and Six may commit to following the *Habitat Management Guidelines for the Wood Stork in the Southeast Region*.

General Timeframes for Consultation and Permitting: Timely issuance of permits is dependent on completion of informal or formal consultation with the USFWS regarding potential impacts to wood storks. USFWS may require wetland impact acreages and WSIFA.

4. PERMITTING

Prohibited Activities: Section 10 of the ESA regulates a range of activities that affect endangered or threatened species, including the wood stork. The Act prohibits activities affecting wood storks and the loss of their habitat unless authorized by a permit from the USFWS. Permitted activities must be consistent with the USFWS wood stork conservation management plans.

Activities Authorized by Permit: Permit authorization is based on your proposed project location to CFAs; the amount of suitable forging habitat impacted; results of WSIFA; and measures (such as project components, standard construction precautions, or special conditions) taken to avoid or minimize effects to wood storks and suitable foraging habitat (SFH, i.e., wetlands). Impacts to wood stork suitable forage habitat are typically authorized as part of the stormwater or wetland permits. Wetland and wood stork mitigation are typically mitigated for together through the State Water Management Districts and USACE.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review of Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to wood stork. Make sure construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: For projects with less than 5 acres of wetland impacts, an individual WSIFA is not necessary. USFWS will accept the replacement in-kind of wet ditches and swales.

Seasonal Restrictions: There are seasonal restrictions if your project is within a primary zone (500 ft. to 1,500 ft.) or secondary zone (1,500 ft. to 2,500 ft.) of an active nesting colony. Nesting activity may begin as early as December or as late as March in southern Florida colonies, and between late February and April in colonies located in central and north Florida. Colonies may be active until June-July in south Florida, and as late as July-August at more northern sites. Colony sites may also be used for roosting during other times of the year.

Survey Restrictions: No survey restrictions, however, determining whether suitable habitat (wetlands) exists will be required for consultation.

7. **RESOURCES**

Web Resources*

- FWC Water Bird Locator Interactive Map (select wood stork and turn off all other waterbirds) <u>http://atoll.floridamarine.org/waterBirds/</u>
- USFWS Wood Stork Foraging Habitat Assessment Methodology <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/wood_stork/20100518_letter_S</u> <u>ervicetoCorps_FLProgrammaticStorkrevised.pdf</u>
- USFWS Wood Stork Management Guidelines
 <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/wood_stork/habitatGuidelines.p</u>
 <u>df</u>
- USFWS Wood Stork Nest Colonies and Core Foraging Areas
 <u>https://maps-fdep.opendata.arcgis.com/datasets/FDEP::florida-wood-stork-foraging-areas/about.</u>
- USFWS Wood Stork Profile https://www.fws.gov/species/wood-stork-mycteria-americana

• Wood Stork Species Determination Keys:

South Florida

https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/wood_stork/20100518_letter_ ServicetoCorps_FLProgrammaticStorkrevised.pdf

North and Central Florida

https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/wood_stork/JAX_WoodStork Key_Sep2008.pdf

Lead Specialist(s) for Agencies:

• Bill Brooks, U.S. Fish and Wildlife Service, 7915 Baymeadows Way, Suite 200, Jacksonville, Florida 32256; Telephone: (904) 404-9826; Email: <u>Billy_Brooks@fws.gov</u>

Publications:

- Kahl, M.P. 1964. Food Ecology of the Wood Stork (Mycteria americana) in Florida. Ecol. Monogr. 34:97-117.
- Ogden, J.C. 1996. Wood Stork (*Mycteria americana*). Pp. 31-41 in J.A. Rodgers Jr., H.W. Kale II, and H.T. Smith (eds). 1996, Vol. V. Birds, Rare and Endangered Biota of Florida. Univ. Florida Press, Gainesville, FL. 688 pages.
- U.S. Fish and Wildlife Service. 1996. Revised Recovery Plan for the U.S. Breeding Population of the Wood Stork. U.S. Fish and Wildlife Service, Atlanta, Georgia. 40 pages.
- U.S. Fish and Wildlife Service. 1999. South Florida Multi-Species Recovery Plan for the threatened and endangered species. Vero Beach, Florida.

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 2m Audubon's Crested Caracara

AUDUBON'S CRESTED CARACARA

Caracara cheriway



STATUS:	Federal Listed, Threatened
AGENCY:	U. S. Fish & Wildlife Service (USFWS)
FDOT DISTRICTS:	Districts 1, 4, 5, 6, 7 and Florida's Turnpike Enterprise (Enterprise)
HABITAT:	Cattle pasture and dry or wet prairie containing scattered cabbage palms
PRIMARY ISSUE:	Proposed activities within suitable habitat and within a designated Consultation Area requires informal consultation and potentially surveys to determine presence. Proposed activities within 985-feet of an active nest tree require additional consultation.
SEASONAL ISSUES:	Designated survey seasonal restrictions (January 10 - April 30)

1. CONSERVATION STATUS

Federal Status: The USFWS listed the Audubon's crested caracara (caracara) as *threatened* under the Endangered Species Act (ESA) of 1973, as amended (Act) (16 U.S.C. 1531 *et seq.*) on July 6, 1987, (52 FR 25229).

State Status: In accordance with Chapter 68A-27, F.A.C., the caracara is listed as threatened pursuant to the ESA federal designation.

Other Applicable Laws: The U.S. Migratory Bird Treaty Act makes it illegal to take, possess, import, export, transport, sell, purchase, barter, or offer for sale, purchase, or barter, any migratory bird, or the parts, nests, or eggs of such a bird except under the terms of a valid Federal permit. The caracara is listed as a migratory bird species protected by this Act.

2. ECOLOGY & MANAGEMENT

Description: The caracara is a large raptor with, long legs, naked face (which appears white or orange), large bill, a white head with a black crest, and white panels on the wings. It ranges in height from 21-25 inches long and has a maximum wingspan of 47 inches.

Adults: The adult is dark brownish black on the crown, wings, back, and lower abdomen. The lower part of the head, throat, upper abdomen, and under tail coverts are white, the breast and upper back are whitish, heavily barred with black. The tail is white with narrow, dark crossbars and a broad, dark terminal band. Prominent white patches are visible near the tips of the wings in flight. Adult caracaras may be found in their home range (~3,000 acres) year-round, corresponding to a radius of 1.2 to 1.9 miles surrounding the nest site. Foraging typically occurs throughout the home range during nesting and non-nesting seasons. The primary breeding season is October through March.

Nesting: Caracaras construct new nests each nesting season, often in the same tree as the previous year. The nest usually consists of two to three eggs with an incubation period of 32-days. The nestling period covers approximately 7-8 weeks, and the post fledgling dependency period is approximately 8 weeks. Offspring departure from natal home range occurs 11 to 45 weeks post fledging. Nests are well concealed and most often found in the tops of cabbage palms.

Subadults/Juveniles: Juveniles have a similar color pattern but are brownish and buffy with the breast and upper back streaked instead of barred. Sub-adults resemble adults but are more brownish in color. Adults have yellow-orange facial skin and yellow legs. The facial skin of juveniles is pinkish in color and the legs are gray.



Florida Distribution: Caracara are found in the south-central region of Florida including Charlotte, Collier, Hardee, Hendry, Martin, Miami-Dade, Monroe, Lee, Polk, Pasco, St. Lucie, Brevard, Volusia, Seminole and Orange Counties but are most abundant in Glades, DeSoto, Highlands, Okeechobee, and Osceola Counties. USFWS has designated Consultation Areas for this species. Generally, if a project is within the Consultation Area and has suitable habitat, this species could be present.

Suitable Habitat: The caracara inhabits dry or wet prairie areas containing scattered cabbage palms, as well as agricultural lands, orange groves, and actively grazed rangeland. Low vegetation is preferred by this species because they tend to forage on the ground.

Identification of Suitable Nesting Habitat: The primary nesting substrate is cabbage palm, although there have been rare reports of nesting in slash pine, cypress, oak, red cedar, Australian pine, saw palmetto, and black gum, and even more atypical locations such as an electrical substation, radio tower, and billboard. USFWS has two designated zones used for evaluating potential impacts to caracara consisting of a primary zone of 985-feet (300 meters) and a secondary zone of 4,921-feet (1,500 meters) outward from a nest tree. Protection of the primary nest zone is critical and habitat alteration within this nest radius is used for calculating impacts to this species. The secondary zone is generally defined as the foraging territory and used when evaluating potential survey limits.

Behavior and Activity to Note: Caracara eat carrion and are attracted to roadkill and discarded food this can place them in harm's way in relationship to roadways and construction staging areas that are not kept free of trash. Possible project commitments included removing roadkill and keeping staging area free of trash.

Protection and Management Plans: A federal recovery plan for the caracara were issued in 1989 (USFWS 1989), and as part of the South Florida Multi-species Recovery Plan (USFWS 1999).

Designated Protection Area or Critical Habitat: No Critical Habitat rules have been created for the caracara.

Survey Protocol: USFWS has recommended management practices and survey protocols. The 2004 Survey Protocols are available online by logging into USFWS's Information for Planning and Consultation (IPaC) website [IPaC: Home (fws.gov)], creating a project, then navigating to the caracara resources under your project. The USFWS Crested Caracara Draft Survey Protocol – Additional Guidance (2016-2017 Breeding Season) can be obtained by contacting the USFWS lead species coordinator (see Resources, below).

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): USFWS takes the lead on consultation for this species. The USFWS staff specialist on caracara is located within the Vero Beach office; however, the lead consultation office and dedicated FDOT reviewer will be dependent on the location of the project.

Federal Nexus for Consultation: Any project that is authorized, funded, or requires a federal permit will need to conduct consultation under Section 7 of the ESA to determine whether the project will impact caracara.

Type of Consultation: The type of consultation, Informal or Formal, will depend on results of FDOT's analysis of whether the proposed project will have an adverse effect on the species. If a proposed federal action *may affect* a listed species, informal or formal consultation is required. Typically, a *may affect* determination is made if a project will alter caracara habitat within the primary zone of an active nest site.

Demonstrate Avoidance and Minimization: FDOT must demonstrate to the USFWS that it is making all efforts to avoid and minimize impacts to caracara from proposed projects. This effort is essential to the consultation processes and may include measures such as avoiding pond site alternatives that remove a nest tree or altering construction methodology such that construction in the vicinity of a nest site is outside of the nesting season.

Tools for Section 7 ESA Consultation: There is not a Programmatic Effects Determination Key for this species. There is not an established Standard Provision or Programmatic Biological Opinion (PBO) for this species.

Special Provisions, or Standard Protection Measures: No special provisions or standard protection measures.

General timeframes for Consultation and Permitting: Early coordination is highly recommended if you are anticipating land alteration within 985-feet (300 meters) of a caracara nest site. Formal Consultation can take as long as 135-days and though not typical, may conclude with a finding of jeopardy thus preventing authorization of permits.

4. PERMITTING

Prohibited Activities: Any land clearing within 985-feet (300 meters) of a nest site without Formal Consultation with the USFWS and an approved Biological Opinion (**BO**).

Activities Authorized by Permit: Effects to caracara can be authorized by USFWS by a BO during consultation through the USACE permitting process or the NEPA process. The BO can authorize impacts referred to as "incidental take" in the form of harm (i.e. loss of foraging habitat and/or disruption of breeding activity).

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review of Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related caracara. Make sure that construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: In coordination with FDOT's Office of Environmental Management (OEM) or District Environmental Management Office, reach out to your USFWS representative to informally coordinate prior to conducting surveys, including submittal of a proposed survey plan and list of observers. Note that caracara surveys are typically recognized as valid for two survey seasons. Early internal coordination between DEMO and Design is important to avoid conducting a few surveys as possible.

Seasonal Restrictions: Surveys must start no later than January 10 and continue through April 30 to provide adequate data to conclude whether the site contains an active caracara nest and/or foraging habitat.

Survey Restrictions: Surveys must be conducted by a qualified biologist having at least two years of experience conducting bird surveys and at least 40-hours of caracara survey experience (i.e., equivalent to one survey season) under the supervision of an experienced caracara surveyor. If an observer does not meet these minimum qualifications, the observer should be accompanied by a qualified observer who will serve as the primary observer. Even in cases of qualified observers, and where staff resources allow it, having two observers at the same station can increase the probability of finding a nest.

7. **RESOURCES**

Web Resources*

- Federal Registry, Threatened Status for crested caracara <u>https://www.fws.gov/species-publication-action/thr-status-florida-population-audubons-crested-caracara-52-fr-25229</u>
- FDOT OEM Crested Caracara Nest Survey Instructional Video Crested Caracara Survey Training (10/17/2022) (youtube.com)
- Florida Fish and Wildlife Conservation Commission, Species Information
 https://mvfwc.com/wildlifehabitats/profiles/birds/raptors-and-vultures/crested-caracara/
- USFWS Crested Caracara Draft Survey Protocol Additional Guidance (2016-2017 Breeding Season) anticipated to be available in the future at https://www.fws.gov/species/audubons-crested-caracara-polyborus-plancus-audubonii and from the IPaC website (requires log in and project creation).
- USFWS: Audubon's crested caracara https://www.fws.gov/species/audubons-crested-caracara-polyborus-plancus-audubonii
- South Florida Multi-Species Recovery Plan https://www.fws.gov/node/68181

Lead Specialist(s) for Agencies: For general information regarding the caracara, Emarie Ayala is the designated lead species coordinator (contact number: 772-226-8132/ email: Emarie Ayala@fws.gov)

Publications:

- U.S. Fish and Wildlife Service. 1989. Recovery plan for the Florida population of Audubon's crested caracara. U.S. Fish and Wildlife Service; Atlanta, Georgia.
- U.S. Fish and Wildlife Service. 2004. Survey Protocol for Finding Caracara Nests. U.S. Fish and Wildlife Service; South Florida Ecological Services.
- U.S. Fish and Wildlife Service. 2009b. Florida Population of the Audubon's Crested Caracara (*Polyborus plancus audubonii*), Northern Crested Caracara (*Caracara cheriway*) 5-Year Review
- Morrison, J.L. 2001. Recommended management practices and survey protocols for Audubon's crested caracara *(Caracara cheriway audubonii)* in Florida. Technical Report Number 18. Bureau of Wildlife Diversity Conservation, Florida Fish and Wildlife Conservation Commission; Tallahassee, Florida.
- Morrison, J.L. and S.R. Humphrey. 2001. Conservation value of private lands for crested caracaras in Florida. Conservation Biology 15(3):675-684.

• Morrison, J.L. 1999. Breeding biology and productivity of Florida's Crested Caracaras. Condor 101(3):505-517.

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APPENDIX 2n Everglade Snail Kite

Everglade Snail Kite Rostrhamus sociabilis plumbeus



STATUS:	Federally Listed, Endangered; Designated Critical Habitat	
AGENCY:	United States Fish and Wildlife Service (USFWS)	
FDOT DISTRICTS:	District 1, 2, 4, 5, 6, and Florida Turnpike Enterprise (FTE)	
HABITAT:	Freshwater – open marshes, shallow lakes and vegetated lake shorelines	
PRIMARY ISSUES:	Consultation for species impacts or work within designated Critical Habitat.	
SEASONAL ISSUES:	Survey window for nesting	

1. CONSERVATION STATUS

Federal Status: The Everglade snail kite is federally listed as *endangered*. It was listed under the Species Conservation Act in 1967 (32 FR 4001) and later incorporated into the current Endangered Species Act (ESA) (16 U.S.C. §§1531-1544).

State Status: In accordance with Chapter 68A-27, FL Administrative Code (F.A.C), the Everglade snail kite is listed as endangered by virtue of designation by the ESA.

Other Applicable Laws: The U.S. Migratory Bird Treaty Act and Wildlife Code of the State of Florida (68A-1.002) prohibit take of birds, nests, or eggs. State and Federal wetland protection laws support the protection of Everglade snail kite Critical Habitat.

2. ECOLOGY & MANAGEMENT

Description: The Everglade snail kite is a medium-sized raptor, reaching a total body length of 14.2-15.4 inches. Adult males are slate grey to black, while adult females are brown in color with varying amounts of white streaking on the face, neck, and chest. Both sexes have red eyes and orange legs. Juveniles are similar in color to adult females but have brown eyes. A distinguishing feature is their long, curved bill used for picking snails from their shells.

Florida Distribution: Everglade snail kite distribution is primarily located within central and southern areas of Florida (Multi-Species Recovery Plan for South Florida, FWS 1986). Everglade snail kites will disperse regionally in response to changes in water depths, hydroperiod, food availability, and other habitat fluctuations. Population shifts can be short-term, seasonal, or long-term, and can take place between areas from year to year, between areas within a given nesting season, and within or between areas for several days to a few weeks. In addition, Everglade snail kites will shift their distribution southward during colder winters.

Suitable Habitat: Suitable habitat for the Everglade snail kite consists of freshwater marshes, lakes, and shorelines with low density of vegetation. Clear and calm open water is necessary for the Everglade snail kite to visually forage for apple snails. The presence of apple snails is a key indicator. Dense growth of vegetation is not conducive to Everglade snail kite foraging. Emergent vegetation is needed to allow apple snails to climb near the surface to feed, breathe, and lay eggs; as well as become accessible to kites. In order to support Everglade snail kites, a nearly continuous flooding of wetlands for > 1 year is required (Sykes 1979, Beissinger 1988).

Identification of Suitable Habitat: A desktop review of FDOT's Environmental Screening Tool (EST), which includes USFWS data on Snail Kite Critical Habitat, Consultation Areas, and wetlands, will inform a preliminary determination of whether snail kites may occur in the project area. Snail kite nesting surveys are conducted annually and can be used as guidance for your project area.

Behavior and Activity to Note: Outside of breeding season, Everglade snail kites will use communal roosts with other birds; particularly anhingas, herons, and vultures. Everglade snail kites can nest solitarily or in clusters.

Protection and Management Plans: The Everglade snail kite is included in the <u>USFWS's South Florida Multi-Species Recovery</u> <u>Plan (1999)</u> and has <u>Draft Snail Kite Management Guidelines (2006)</u>.

Designated Protection Area or Critical Habitat: In 1977, the USFWS designated Critical Habitat for the Everglade snail kite. Areas with designated Critical Habitat include Arthur R. Marshall Loxahatchee National Wildlife Refuge, Everglades Water Conservation Areas 2 and 3, Everglades National Park, Lake Okeechobee, Strazulla and Cloud Lake Reservoirs and St. Johns Marsh. Federal agencies must ensure that any action they authorize, fund, or permit will not destroy or adversely modify Critical Habitat.

Survey Protocol and Requirements: The USFWS has draft snail kite survey protocol (2004). Surveys should be conducted during breeding season from January to May. This survey can determine foraging and roosting patterns of individuals within the area and

should document the location of each Everglade snail kite observed. Monitoring should occur during and after construction and reports should be sent to USFWS. To see the draft survey protocol, go tohttps://ipac.ecosphere.fws.gov/guideline/survey/population/1221/office/41420.pdf.

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): The applicable agency for the snail kite is the USFWS. The USFWS, through Section 7 of the ESA, reviews permit applications for projects that may affect Everglade snail kite. As part of the review, the USFWS recommends ways to avoid or minimize the effects.

Federal Nexus for Consultation: Any project that is authorized, funded, or requires a federal permit will need to conduct consultation under the ESA Section 7 to determine whether the project will impact the Everglade snail kite or result in the adverse modification of designated Critical Habitat.

Type of Consultation: The type of consultation, Informal and Formal, will depend on results of FDOT's analysis of whether the proposed project may have an adverse effect on the Everglade snail kite and its Critical Habitat. If a proposed federal action *may affect, likely to adversely affect* the Everglade snail kite or Critical Habitat, formal consultation is required.

Demonstrate Avoidance, Minimization, and Mitigation: FDOT shall demonstrate to the USFWS that it is making all efforts to avoid and minimize impacts to the Everglade snail kite and its Critical Habitat. This effort is essential to the consultation processes and may include such activities as implementing project specific conservation measures and/or aspects of the USFWS <u>Draft</u> <u>Everglade Snail Kite Management Guidelines</u>.

Tools for Section 7 ESA Consultation: The USFWS has not developed a species effects determination key for the Everglade snail kite.

Special Provisions, or Standard Protection Measures: No standard provisions.

General Timeframes for Consultation and Permitting: Early coordination is recommended if impacts are anticipated to the Everglade snail kite or its Critical Habitat. Formal Section 7 ESA Consultation can take as long as 180 days.

4. PERMITTING

Prohibited Activities: The ESA, U.S. Migratory Bird Treaty Act and state Wildlife Code prohibits the take of birds, nests or eggs. No activity may injure, harm, harass or kill this species. Project activities should cease if a nest or roost is found with 425 feet of any project activities.

Activities Authorized by Permit: Permit authorization is based on the proposed project location and description; the potential effects to snail kite, snail kite suitable habitat (wetlands), and/or snail kite Critical Habitat; and any measures (such as project components, standard construction precautions, or special conditions included in the authorization) to avoid or minimize effects to Everglade snail kite and/or Everglade snail kite Critical Habitat.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review of Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to the Everglade snail kite and Critical Habitat. Make sure that construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one-year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: A field review of wetland habitat can indicate whether or not habitat conditions are suitable for Everglade snail kite. A review of wetland hydrology through the Water Management District could indicate whether wetlands support apple snails (nearly continuous flooding of wetlands for > 1 year is required).

Seasonal Restrictions: Everglade snail kite surveys should be conducted during breeding season to increase chances of observing snail kites. The breeding season varies widely from year to year in relation to rainfall and water levels. Generally nesting occurs from January to May.

Survey Restrictions: Surveys should be completed by a qualified avian biologist/ecologist. For additional requirements go to USFWS's Draft Survey Protocol (2004):

https://ipac.ecosphere.fws.gov/guideline/survey/population/1221/office/41420.pdf.

7. RESOURCES

Web Resources*

- Federal Register for Everglade Snail Kite, March 11, 1967
 <u>https://www.fws.gov/sites/default/files/federal_register_document/FR-1967-03-11.pdf</u>
- FWC's Listed Species Information Everglade snail kite <u>https://myfwc.com/wildlifehabitats/profiles/birds/raptors-and-vultures/everglade-snail-kite/</u>
- USFWS Species Profiles <u>https://www.fws.gov/species/everglade-snail-kite-rostrhamus-sociabilis-plumbeus</u>
- USFWS Multi-Species Recovery Plan <u>https://ecos.fws.gov/docs/recovery_plan/sfl_msrp/SFL_MSRP_Species.pdf</u>
- USFWS Everglade Snail Kite Survey Protocol (Draft 2004)
 <u>https://ipac.ecosphere.fws.gov/guideline/survey/population/1221/office/41420.pdf</u>
- USFWS Everglade Snail Kite Management Guidelines (Draft 2006) <u>https://www.fdot.gov/environment/protected-species-and-habitat</u>

Lead Specialist(s) for Agencies:

For questions about activities that might affect the Everglade snail kite, please contact Vicki Garcia; Telephone: (772) 226-8145, E-mail: Victoria_Garcia@fws.gov.

Publications:

- Beissinger, S. R. 1988. Snail kite. Pages 148-165 in R. S. Palmer, eds. Handbook of North American birds, vol. 4, Yale University Press, New Haven, Connecticut.
- Bennetts, R.E., and W.M. Kitchens. 1997. The demography and movements of snail kites in Florida. Final report. Florida Cooperative Fish and Wildlife Research Unit, National Biological Service, U.S. Department of the Interior; Gainesville, Florida.
- Bennetts, R.E., M.W. Collopy, and S.R. Beissinger. 1988. Nesting ecology of Snail Kites in Water Conservation Area 3A. Department of Wildlife and Range Science, University of Florida, Gainesville. Florida Cooperative Fish and Wildlife Research Unit, Technical Report No. 31, 174 p.
- Snyder, N.F.R., S.R. Beissinger, and R. Chandler. 1989. Reproduction and demography of the Florida Everglade (snail) kite. Condor 91:300-316.
- Sykes, P. W., Jr. 1979. Status of the Everglade Kite in Florida1968-1978. Wilson Bulletin 91:495-511.
- Sykes, P.W., Jr. 1982. Everglade Kite. Pages 43-44 in D.E. Davis, editor. CRC Handbook of Census Methods for Terrestrial Vertebrates. CRC Press, Boca Raton, Florida.
- Sykes, P.W. Jr. 1987. The feeding habits of the snail kite in Florida, USA. Colonial Waterbirds 10(1):84-92.

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 20 Florida Scrub Jay

Florida Scrub Jay Aphelocoma coerulescens



STATUS:	Federally listed, Threatened; U.S. Migratory Bird Treaty Act
AGENCY:	U.S. Fish & Wildlife Service (USFWS) and the Florida Fish and Wildlife Conservation
	Commission (FWC)
FDOT DISTRICTS:	Districts 1, 2, 4, 5, 7
HABITAT:	Inhabits fire-dominated, low-growing, oak scrub habitat found on well-drained sandy
	soils
PRIMARY ISSUES:	Section 7 ESA Consultation regarding roadway improvements, clearing and grubbing,
	multi-use paths, and trails
SEASONAL ISSUES:	Survey only accepted from March through October. Nest Season - March 1st through
	June 30 th

1. CONSERVATION STATUS

Federal Status: The only bird species endemic to Florida, the scrub-jay was listed as threatened under the Endangered Species Act (ESA) on June 3, 1987 (52 FR 20719). The primary reason for ESA listing was due to the continuous range-wide population declines due to habitat loss, habitat degradation, and fire suppression.

State Status: The Florida scrub-jay was listed as State threatened in 1975. They receive protection from the State as a threatened species under Rule 68A-27.003, Florida Administrative Code (F.A.C.), which prohibits possessing, or selling individuals, including parts, nests, or eggs. Take is further defined in Rule 68A-27.001, F.A.C. Active nests, eggs, and young are also protected under 68A-4.001 and 68A-16.001, F.A.C.

What other laws may apply? In addition to the ESA, the Florida scrub-jay is protected under the U.S. Migratory Bird Treaty Act (167 U.S.C. 703-711). For off system projects, note that some county governments have developed protective Florida scrub-jay and scrub habitat ordinances, but all such ordinances are based on compliance with the ESA rather than local laws.

2. HABITAT

Description: The Florida scrub-jay is between 10-12 inches long. It is a blue and gray crestless jay that lacks the white wing spots and tail feather tips of the more common blue jay. The head, neck, nape, and tail are blue while the back and belly are pale gray. A necklace of blue feathers separates the whiter throat from the gray underparts, and a white line over the eye often blends into a whitish forehead. Males and females are similar in appearance. Juveniles can be distinguished from adults by their dusky brown head and neck.

Florida Distribution: FDOT Districts 1, 2, 4, 5, and 7 within the highest and driest areas of Florida including ancient sandy ridges that run down the middle of the state, old sand dunes along the coasts, and sandy deposits along rivers in the interior of the state.

Behavior and Activity to Note: The Florida scrub-jay is non-migratory, extremely sedentary, and restricted to scrub and scrubby flatwoods. Based on these characteristics scrub-jays have evolved to have a social structure that involves cooperative breeding. Family groups range from two (a single mated pair) up to large, extended families of eight adults and one to four juveniles. Fledgling scrub-jays remain with the breeding pair in their natal territory as "helpers," forming a closely-knit, cooperative family group. The scrub-jay breeds from March to June and nests are built from twigs and palmetto fibers 3-10 feet off the ground in shrubby oaks.

Suitable Habitat: The Florida scrub-jay has specific habitat requirements and are entirely dependent on oak scrub communities. Scrub habitat is characterized by stunted, low-growing oaks, scrubby flatwoods, sand pine scrub, rosemary

scrub, and coastal scrub. Preferred scrub-jay habitat occurs when the oaks are between 3-10 feet tall, along with sandy openings and very few, scattered trees. Fire ecology is a critical element in scrub communities.

How to know if you have suitable habitat? Suitable habitat consists of scrub oaks, scrubby flatwoods, sand pine scrub, rosemary scrub, and coastal scrub with scattered sandy clearings. If the project is located within the USFWS Consultation Area and suitable habitat is present, then a field survey is required to determine the project effect on the Florida scrubjay.

Protection and Management Plan: The USFWS has created a recovery plan under section 4(f) of the ESA. The plan emphasizes the creation and maintenance of viable scrub-jay populations across their remaining range to protect their genetic variability. USFWS prioritizes large landscapes that provide optimal opportunities for long-term persistence of scrub-jay populations. Within these large landscapes, the focus is on maintaining and improving connectivity to facilitate dispersal among local populations within their respective genetic unit. These areas are referred to as "focal landscapes," and were developed from a comprehensive range-wide habitat mapping exercise. In addition, the USFWS incorporates specific requirements for habitat management on all landscapes deemed to have potential for long-term scrub-jay persistence.

<u>A Scrub-Jay Umbrella Habitat Conservation Plan and Environmental Assessment</u> (HCP/EA) system has been developed to address incidental take of the Florida scrub-jay resulting from development activities. The HCP/EA acts as an "umbrella" document for qualifying landowners who might need an incidental take permit (ITP) pursuant to section 10(a)(1)(B) of the Endangered Species Act (Act). USFWS includes conservation banks as a mitigation option in the umbrella HCP/EA. Regional HCPs have been approved by the USFWS to help ensure the long-term survival of the scrub-jay and to establish a development fee system for the duration of the ITPs.

Designated Protection Area or Critical Habitat: Critical habitat has not been proposed for this species. A Consultation Area has been designated and is split between the South Florida Ecological Services Field Office (ESO) and the North Florida ESO (Scrub-jay Consultation Area Layer).

Survey Protocol and Requirements: All potentially suitable habitat in which activities are likely to result in take should be surveyed for the presence of Florida scrub-jay following the USFWS <u>Florida Scrub-jay Survey Protocol</u>, June 28, 2004. Survey protocol consists of traversing the area systematically, using a high-quality recording of scrub-jay territorial scolding (vocals) to attract the scrub-jays.

3. PERMITTING

What activities are prohibited? Section 9 of the ESA and its implementing regulations (50 CFR § 17.31) prohibit any person from taking a Florida scrub-jay. Regulations implementing the ESA (50 CFR § 17.3) further define "harm" to include significant habitat modification or degradation that results in the killing or injury of wildlife by impairing significantly essential behavioral patterns including breeding, feeding, or sheltering. "Harass" means an intentional or negligent act or omission that creates the likelihood of injury to wildlife by annoying it to such an extent as to disrupt significantly normal behavioral patterns which include, but are not limited to, breeding, feeding, or sheltering. All potential habitat within a project area should be surveyed. The results of the survey and the amount of occupied habitat identified will determine the level of take.

What kinds of activities can permits authorize? Permit authorization is based on the proposed project scope, location, type of impact, and measures (such as project components, construction precautions, or special conditions) taken to avoid or minimize effects to the Florida scrub-jay.

4. AGENCY CONSULTATION

Who is the responsible agency(s) for this species? The USFWS and FWC share responsibility; however, the USFWS is the lead. To eliminate the need for both a state and federal permit, activities that result in take of Federally designated Threatened Species do not require a permit from the FWC when authorized by the USFWS (Rule 68A-27.007, Florida Administrative Code). To date, the FWC has not developed a regulatory program that ensures compliance with this statute. Instead, the FWC relies on USFWS implementation of the ESA through sections 7 and 10 and enforcement of the prohibitions in section 9 of the ESA.

Federal Nexus for consultation? Federally funded activities or activities that require a federal permit that *may affect* the Florida scrub-jay and its foraging habitat requires an ESA effects determination and consultation.

Type of Consultation: As a federally listed species, consultation occurs through sections 7 and 10 of the ESA. Note that some projects that impact scrub habitat do not have the need for a federal 404 permit (no wetland impacts) and therefore require consultation through Section 10.

Demonstrate Avoidance, Minimization, and Mitigation/Commitments: The USFWS requires that FDOT demonstrate that it has fully evaluated avoidance and minimization efforts for the scrub-jay. Avoidance can be accomplished by modifying the project footprint to avoid direct impacts to scrub-jay habitat. The Service recommends on-site enhancements in situations where a project cannot avoid impacting occupied scrub-jay habitat. Enhancements could include restoring or enhancing the remaining scrub through exotic vegetation removal, reintroduction of fire, or fencing to exclude predators such as domestic cats. To assist in minimizing adverse effects from anticipated incidental take, the USFWS has developed measures that are applicable to projects where compensation is appropriate. These measures can be found in Appendix B (Service 2004c) of the Florida Scrub-Jay Species Conservation Guidelines, May 28, 2004. In addition, the USFWS has developed an Umbrella Program to be used for mitigation contributions to address impacts to occupied habitat.

Existing Standard Provisions? There is a FDOT Standard Provision for the scrub-jay (<u>SP0070104-12</u>) that is to be used when called for by the District Environmental Permit Office.

Federal or State Species Effects Determination Keys: No federal or state species effects determination key.

Design Plan Notes: A project specific general note can be added to alert the contractor to avoid activities that may impact the Florida scrub-jay or its habitat.

General timeframes for consultation and permitting: Timely issuance of permits is dependent on completion of informal or formal consultation with the USFWS regarding potential impacts to the Florida scrub-jay. Consultation can be a lengthy process so begin early.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Prior to the commencement of construction, advise personnel that it is a violation of law to intentionally take, harass, wound, or kill a scrub-jay. Any person who violates this provision is guilty of a felony of the third degree, punishable by fine, or both. If a Florida scrub-jay or an active nest is identified, stop work in the area (600 ft.) and report sighting to the Construction Project Administrator (CPA).

Review all environmental permits for Special Conditions related to the Florida scrub-jay and make sure that construction personnel have copies. Be certain that the condition(s) is strictly followed.

6. TIPS

Tip: The ETDM Environmental Screening Tool has a FWC GIS layer for Florida Scrub-Jay Observations which has dataset plots of the locations of all Florida scrub-jay populations including the size (numbers) of individual families. However, direct contact with the agencies or land managers is recommended to get up-to-date Florida scrub-jay family group site locations for mapping and field reviews.

Seasonal restrictions: Field surveys should be conducted during the spring (March) or fall (September and October), when scrub-jay territorial displays are most frequent and vigorous. Other times of year are poor times to survey because scrub-jays are most likely to fly far for food or the young are quiet, and the adults are occupied with molt and feeding fledglings.

Internal Coordination: Early internal coordination between environmental, design, and construction is important so that project scope is clear and construction methodology options are available to understand potential impacts to the scrub-jay and its foraging habitat. Avoidance and minimization efforts should be fully evaluated and documented.

7. **RESOURCES**

Lead Specialist(s) for Agencies on this species? Yes, specialists for the Florida scrub-jay can be found with the USFWS South Florida and North Florida Ecological Services Office Contact your ETAT representative for specific guidance.

Publications:

- Fitzpatrick, J.W., G.E. Woolfenden, and M.T. Kopeny. 1991. Ecology and development-related habitat requirements of the Florida scrub-jay (*Aphelocoma coerulescens*). Florida Game and Fresh Water Fish Commission, Nongame Wildlife Program Technical Report No. 8. Tallahassee, Florida.
- U.S. Fish and Wildlife Service (Service). 1999. South Florida multi-species recovery plan. Atlanta, Georgia. https://www.fws.gov/node/68181.
- U.S. Fish and Wildlife Service (Service). 2004a. Standard local operating procedures for endangered species: Introduction. South Florida Ecological Services Office, Vero Beach, Florida.
- U.S. Fish and Wildlife Service (Service). 2004b. Scrub-jay survey protocol. South Florida Ecological Services Office, Vero Beach, Florida. (Appendix A).
- U.S. Fish and Wildlife Service (Service). 2004c. Amended guidance for assessing mitigation needs for Florida scrub-jays. February 24, 2004. Jacksonville Field Office, Jacksonville, Florida. (Appendix B).
- U.S. Fish and Wildlife Service (Service). 2004d. Guide to a complete initiation package. South Florida Ecological Services Office, Vero Beach, Florida. (see SLOPES Introduction Appendix A).
- Woolfenden, G.E., and J.W. Fitzpatrick. 1996. Florida scrub jay. Pages 267-280 in J.A. Rodgers, H.W. Kale, and H.T. Smith, editors. Rare and endangered biota of Florida, volume V. Birds. University Presses of Florida; Gainesville, Florida.

APPENDIX 2p Florida Bonneted Bat

Florida Bonneted Bat Eumops floridanus



STATUS:	Federal, Endangered; Designated Consultation Area	
AGENCY:	United States Fish and Wildlife Service (USFWS)	
FDOT DISTRICTS:	District 1, 4, 5, 6 and Florida's Turnpike Enterprise (Enterprise)	
HABITAT:	Forests and freshwater wetlands in rural and urban areas	
PRIMARY ISSUES:	Consultation for impacts with the USFWS Consultation Area, Critical Habitat and Presence Polygons	
SEASONAL ISSUES:	No restrictions on survey time frames. Restrictions on conducting work during the maternity season.	

1. CONSERVATION STATUS

Federal Status: The Florida bonneted bat is listed as *endangered* under the Endangered Species Act (ESA) 2013 (<u>78 FR 61003</u> 61043).

State Status: The Florida bonneted bat (*Eumops floridanus*), formerly the Florida mastiff bat (*Eumops glaucinus floridanus*), was state listed in 1992 as Endangered. Today, in accordance with Chapter 68A-27, Florida Administrative Code (F.A.C.), the Florida bonneted bat is listed as endangered pursuant to the ESA federal designation.

Other Applicable Laws: Other federal and state protections that help conserve the Florida bonneted bat and its habitat include the Clean Water Act; 33 U.S.C. 1251-1376] [CWA], National Environmental Policy Act of 1969; 42 U.S.C. 4321-4347] [NEPA], Fish and Wildlife Coordination Act; 16 U.S.C. 661 et seq.] [FWCA]) and State (Florida protective provisions specified in Rules 68A-27.0011 and 68A-27.003) laws.

Note that <u>all</u> bat species are protected under state law-Florida Administrative Code (FAC) Section 68A-4.001 and Section 68A-29.002. If bats of any type are identified, roost exclusion must be conducted prior to work start.

2. ECOLOGY & MANAGEMENT

Description: The Florida bonneted bat gets its common name from the broad ears that extend over its forehead like a bonnet. It was known previously as the Wagner's or Florida mastiff bat and is endemic to Florida's peninsula. It is Florida's largest and rarest bat with one of the most restricted ranges of any bat species. The Florida bonneted bat can reach a length of 6.5 inches with a wingspan of 20 inches and are well adapted for prolonged and high-speed flight in open areas. Their color range is black to gray-brown. The Florida bonneted bat is non-migratory and feeds on insects.

Florida Distribution: Florida bonneted bats exist within 17 counties in Florida: Broward, Charlotte, Collier, De Soto, Hardee, Hendry, Highlands, Glades, Lee, Martin, Miami-Dade, Monroe, Okeechobee, Osceola, Palm Beach, Polk, and Sarasota.

Suitable Habitat: The Florida bonneted bat uses forests, wetlands, and other natural habitats, and it roosts in large cavity trees or trees with hollows, snags, limestone outcroppings, palm tree foliage, and artificial structures such as bat boxes, abandoned buildings, Spanish tile roofs, bridges, and overpasses. They roost alone or in groups (up to 50). They are present in rural, as well as residential and urban areas.

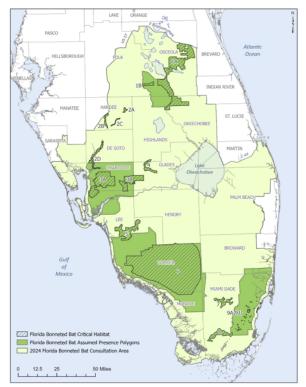
Identification of Suitable Habitat: Tree and structure surveys are required by the USFWS to review for suitable habitat within the defined Consultation Area, Critical Habitat and Presence Polygons.

Behavior and Activity to Note: Little is known about the Florida bonneted bat's life history and behavior. Bonneted bats roost in harems, however, they will roost temporarily in various locations. The bonneted bat is a subtropical species, and pregnant females have been found in June through September and data suggests that it may have more than one period of estrous in a year with a second birthing season possibly in January and February. Bonneted bats are "fast hawking" bats that rely on speed and agility to catch insects in the absence of dense vegetation. Indicators of bonneted bats presence include guano and/or vocalizations at night (possible to hear with the naked ear).

Protection and Management Plans: A Species Action Plan has been published by the USFWS. The plan can be found at:

http://myfwc.com/wildlifehabitats/imperiled/speciesaction-plans/_

Designated Protection Area or Critical Habitat: The USFWS has designated Florida Bonneted Bat Consultation Area, Critical Habitat Units, and Assumed Presence Polygons. Note that this map may change so check with your regional USFWS office.



Survey Protocol and Requirements: The USFWS has prepared a Florida Bonneted Bat Potential Roost Structure Inventory/Survey Methods (Appendix A of the USFWS 2024 Florida Bonneted Bat Consultation Guidelines). Typical survey methodology consists of surveying trees, palms, and bridge structures. Telescoping cameras can be used to view inside tree cavities and around the bootjacks of palm fronds. Guano is also an indicator of bat presence but is not indicative of a particular bat species. In natural areas, and areas unsafe to survey visually, acoustical surveys can be performed to capture vocalizations. Florida Bonneted bat calls are relatively easy to identify because calls are issued at frequencies well below that of other Florida bat species. Acoustic surveys conducted are required by USFWS to be entered into the North American Bat Monitoring Program Database (NaBAT) and must be saved into FDOT records for reference by regulatory agencies.

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): The Florida bonneted bat is protected by the ESA under the USFWS jurisdiction.

Federal Nexus for Consultation: Federal agencies conducting, permitting, or funding actions that *may affect* the bonneted bat and/or its Critical Habitat are required to consult with USFWS. Any adverse effect to this species or habitat within the Consultation Area must be coordinated with USFWS.

Type of Consultation: The type of consultation, Informal and Formal, will depend on the results of FDOT's analysis of whether the proposed project will have an adverse impact on the species and/or Critical Habitat. If a proposed federal action *may affect* the Florida bonneted bat or Critical Habitat, formal consultation is required. The USFWS has developed draft consultation guidelines and Programmatic Keys (Florida Bonneted Bat Consultation Key and Critical Habitat Consultation Key).

Demonstrate Avoidance, Minimization, and Mitigation: FDOT must demonstrate to USFWS that it is making all efforts to avoid, minimize and mitigate impacts to the Florida bonneted bat and/or its Critical Habitat from proposed projects. Impacts to bats can be avoided or minimized by reducing impacts to trees and other natural areas with cavities that bats may potentially inhabit. USFWS is working on compensation recommendations for the near future. Potential commitments can include conducting surveys to determine presence or absence of bats; reducing impacts to trees and habitat; training construction personnel about the Florida bonneted bat; stipulating that a qualified observer/biologist will be on-site for notification by construction personnel if a Florida bonneted bat is sighted; and, committing to cease work on construction site if a bat is identified.

Tool for Section 7 ESA Consultation: See the USFWS 2024 *Florida Bonneted Bat Consultation Guidelines*. These guidelines include a Florida Bonneted Bat Consultation Key and Critical Habitat Consultation Key.

Special Provisions, or Standard Protection Measures: FDOT Standard Provisions have been created for bats. See <u>Standard Specifications Library</u> for the most recent version of SPs.

General Timeframes for Consultation and Permitting: Early consultation is recommended if you have impacts to the Florida bonneted bat or its Critical Habitat.

4. PERMITTING

Prohibited Activities: It is prohibited to impact trees, palms, limestone outcroppings, artificial structures, and transportation structures within the Consultation Area or Critical Habitat without surveying for evidence of the species and determining that no bats are present.

Activities Authorized by Permit: Permit authorization is based on the project location (Consultation Area/Critical Habitat, Presence Polygons), effects to the Florida bonneted bat or its Critical Habitat, and any measures (such as project components, construction precautions, or special conditions included in the authorization) to avoid or minimize those effects.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review all Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to the Florida bonneted bat and its Consultation Area/Critical Habitat. Make sure that construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one-year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: In coordination with FDOT's Office of Environmental Management (OEM), reach out to your USFWS ETAT representative for information regarding effect determinations and the consultation process.

Seasonal Restrictions: There are no seasonal survey restrictions for the Florida bonneted bat. This species is active year-round throughout its range.

Survey Restrictions: Surveys do not need to be conducted outside of the Consultation Areas. Typical visual survey methodology consists of surveying trees for cavities and around the bootjacks of palm fronds. In natural areas, and areas unsafe to survey visually, acoustical surveys can be performed to capture vocalizations. USFWS requires that all acoustic surveys be entered into the <u>North American Bat Monitoring Program</u> (NaBAT) and must be saved into FDOT records for reference. Visual roost surveys can also be entered into the NaBAT database but are not mandated by USFWS.

7. **RESOURCES**

Web Resources*

- Center for Biological Diversity, Florida Bonneted Bat Profile <u>https://www.biologicaldiversity.org/species/mammals/Florida bonneted bat/index.html</u>
- FDOT OEM Bat in Transportation Structures Guidance on Bat Exclusion Practices
 <u>https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/protected-species/final-bat-exclusion-handbook-and-appendices-aug-3_2023.pdf?sfvrsn=372e576c_2_</u>
- Florida Bonneted Bat Biological Status Review Report https://www.gpo.gov/fdsys/pkg/FR-2013-10-02/pdf/2013-23401.pdf
- North American Bat Monitoring Program Database https://sciencebase.usgs.gov/nabat/ - /results
- USFWS Florida Bonneted Bat Profile
 <u>https://www.fws.gov/species/florida-bonneted-bat-eumops-floridanus</u>
- 2024 USFWS Florida Bonneted Bat Consultation Guidelines https://www.fws.gov/media/2024-revision-florida-bonneted-bat-consultation-guidelines
- FWC Species Recovery Plan https://myfwc.com/media/2117/florida-bonneted-bat-species-action-plan-final-draft.pdf
- UF/IFS Florida's Bats: Florida Bonneted Bat http://edis.ifas.ufl.edu/uw426

 UF/IFAS – Bats in Buildings? <u>http://sfyl.ifas.ufl.edu/archive/hot_topics/environment/bats_buildings.shtml</u>

Lead Specialist(s) for Agencies:

If the project is within the Consultation Area for the Florida bonneted bat, you can contact:

Sandra Sneckenberger; <u>sandra_sneckenberger@fws.gov</u>; 772-226-8020 USFWS, 1339 20th Street, Vero Beach, FL 32960

Publications:

- UF/IFAS Bats of Florida Publications, <u>https://edis.ifas.ufl.edu/topic_bats</u>
- Owre, O. T., & Layne, J. N. (1978). The Florida mastiff bat, *Eumops glaucinus floridanus. Rare and endangered biota of Florida*, *1*, 43-44.
- Belwood, J. J. (1992). Florida mastiff bat, Eumops glaucinus floridanus. Rare and endangered biota of Florida, 1, 216-223.

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.



PHOTO: Dustin Smith, https://www.zoomiami.org/florida-bonneted-bat

APPENDIX 2q Florida Panther

Florida Panther Puma concolor coryi



STATUS:	Federally Listed, Endangered; No Designated Critical Habitat
AGENCY:	United States Fish and Wildlife Service (USFWS)
FDOT DISTRICTS:	District 1, 4, 5 and 6
HABITAT:	Forests and Wetlands
PRIMARY ISSUES:	Consultation for Species Impacts
SEASONAL ISSUES:	None

1. CONSERVATION STATUS

Federal Status: The Florida panther is listed as *endangered* under the Endangered Species Act (ESA). It was listed in 1967 (Federal Register 1967) and included in the U.S. Endangered Species Act (Public Law No. 93-205) in 1973.

State Status: In accordance with Chapter 68A-27, F.A.C., the panther is state listed as *endangered* pursuant to the ESA federal designation. The Florida Fish and Wildlife Conservation Commission (FWC) may exercise its state regulatory powers with respect to panthers and provides comments regarding potential impacts to panther habitat to Florida Department of Environmental Protection (FDEP) and Water Management Districts (WMD) under the authority of Chapter 20.331 Florida Statutes (F.S.).

Other Applicable Laws: Other federal and state protections that help conserve the panther and its habitat include the Clean Water Act, National Environmental Policy Act of 1969, Fish and Wildlife Coordination Act and State (Florida protective provisions specified in Rules 68A-27.0011 and 68A-27.003) laws.

2. ECOLOGY & MANAGEMENT

Description: The Florida panther is a large, long-tailed cat. The panther has short stiff hair and an unspotted coat. While color variation exits, adult panthers are typically dark reddish or tawny brown on the back, tan on the sides and pale white/grey on the belly. The tip of the tail, sides of the nose and back of the ears are dark brown or black. Adult males can reach a length of seven feet (ft) from their nose to the tip of their tail and may exceed 161 pounds (lbs.) in weight. Female panthers are smaller with an average weight of 75 lbs. and length of 6 ft. Panther kittens have a greyish body with dark spots and five stripes around the tail.

Florida Distribution: Panthers are wide ranging, secretive, and occur at low densities. Panther distribution is limited to the central and southern areas of Florida. The core of the breeding population is located in Collier, Hendry, and Miami-Dade counties. In 2017, FWC confirmed that a female had mated and produced two litters of kittens north of the Caloosahatchee River. Male panthers continually disperse out of the breeding range and have been confirmed as far north as Georgia.

Suitable Habitat: Panthers prefer native upland forests, such as pine flatwoods and hardwood hammocks, over wetlands, but are known to inhabit both. Panther habitat selection is related to prey availability, which means they select habitats that make prey vulnerable to stalking and capturing. Dense understory vegetation provides some of the most important feeding, resting, and denning cover for panthers. Telemetry monitoring and ground tracking indicate that panthers select forested habitats, marsh shrub swamps, and prairie grasslands with agricultural lands and other habitat types used in proportion to their availability.

Identification of Suitable Habitat: A desktop review of FDOT's Environmental Screening Tool (EST), which includes USFWS/FWC data on the Florida panther, will inform a preliminary determination of whether the panther may occur in the project area. Commenting agencies (FWC and USFWS) may also provide additional resources such as Panther Focus Areas and identified highway segments crossed by panthers. In addition, USFWS does have a <u>Species Effect Determination Key</u> for the Florida panther that includes boundaries and criteria for effect determinations.

Behavior and Activity to Note: The Florida panther breeding activity peaks between December and March. Litters are produced throughout the year, with 56 - 60% of births occurring between March and June. The greatest number of births occurs in May and June. Den sites are usually located in dense, understory vegetation, typically saw palmetto. Den sites are used for up to two months by female panthers and their litters from birth to weaning.

Protection and Management Plans: The USFWS issued its initial panther recovery plan in 1981. It was later revised in 1987 and again in 1995. In 1999, the USFWS approved the South Florida Multi-species Recovery Plan (MSRP) that identified recovery needs of 68 threatened and endangered species in south Florida including the panther. The most <u>recent version (2008)</u> includes specific

strategies to maintain, restore, and expand the panther population and its habitat in south Florida, expand this population into southcentral Florida, and reintroduce at least two additional viable populations within the historic range outside of south and south-central Florida.

Designated Protection Area or Critical Habitat: To date, no critical habitat has been designated for the Florida panther. However, the USFWS has identified a Panther Focus Area south of the Caloosahatchee River which is divided into Primary, Secondary, and Dispersal Zones. North of the Caloosahatchee River it is named the Primary Dispersal/Expansion Area. The *Primary Zone* is currently occupied and is important to the long-term viability of the panther in the wild. The *Secondary Zone* lands are contiguous with the Primary Zone and although these lands are used to a lesser extent, they are important to the long-term viability of the panther. The *Dispersal Zone* is a known corridor necessary to facilitate the dispersal of panthers and future panther population expansion to areas north of the Caloosahatchee River. The *Primary Dispersal/Expansion Area* is the Fisheating Creek/Babcock-Webb Wildlife Management Area region.

Survey Protocol and Requirements: The Florida panther is wide ranging, secretive, and occurs at low densities therefore surveys are not a useful tool. Rather the <u>Species Effects Determination Key</u> is to be utilized for determining potential impacts.

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): Under section 7(a)(2) of the ESA, FWS consults with Federal agencies proposing actions that may affect the panther. In addition, FWC provides comments regarding potential impacts to panther habitat to FDEP and WMDs under the authority of Chapter 20.331 Florida Statutes.

Federal Nexus for Consultation: Section 7(a)(2) of the ESA requires that all Federal agencies consult with USFWS to ensure that any action authorized, funded, or carried out by the agency is not likely to jeopardize the continued existence of the Florida panther.

Type of Consultation: The type of consultation, Informal and Formal, will depend on results of FDOT's analysis of whether the proposed project will have an adverse impact on the species. If a proposed federal action *may affect* the Florida panther than formal consultation is required. To determine the level of effect for the panther, the USFWS has published an *Effect Determination Key (2007) for the Florida panther*.

Demonstrate Avoidance, Minimization, and Mitigation: FDOT must demonstrate to USFWS that it is making all efforts to avoid and minimize impacts to the Florida panther. This effort is essential to the consultation processes and may include commitments such as modifying proposed plans, reducing speed limits, adding wildlife crossings (example I-75/Alligator Alley), and/or purchasing credits from an approved USFWS panther conservation bank.

Tool for Section 7 ESA Consultation: To help regulatory agencies determine the level of effect caused by a specific project, the USFWS created an *Effect Determination Key (2007) for the Florida panther*. Another tool also available is the <u>USFWS Draft Panther</u> Habitat Assessment Methodology (2012) to help guide the agency in evaluating permit applications for projects that could affect panthers and their habitat. This draft methodology is a way to assess the level of impacts and to evaluate the effect of any proposed compensation. The USFWS has not finalized the assessment methodology; however, it uses it to evaluate each project in detail within biological opinions.

Special Provisions, or Standard Protection Measures: No special provisions or standard protection measures.

General Timeframes for Consultation and Permitting: Early coordination is recommended if impacts are anticipated as Formal Consultation can take as long as 180 days.

4. PERMITTING

Prohibited Activities: Any direct, secondary, and cumulative impacts to the panther and habitat within its range.

Activities Authorized by Permit: Permit authorization is based on the proposed project location and description; the potential effects to panther and any measures (such as project components, standard construction precautions, or special conditions included in the authorization) to avoid or minimize those effects.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project will share the Project Commitment Record with Construction.

Review all Environmental Permit Special Conditions: Review all environmental permits for Special Conditions related to Florida panther and its habitat. Make sure that construction personnel have copies. At the preconstruction conference, advise personnel to review any special conditions in the permits or Biological Opinions related to the Florida Panther. Florida panther educational training can be conducted with construction personal.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: Early coordination with your USFWS ETAT member and the use of the *Effect Determination Key (2007) for the Florida panther* will assist in guiding consultation in a timely manner.

Seasonal Restrictions: No seasonal restrictions.

Survey Restrictions: The Florida panther is wide ranging, secretive, and occurs at low densities therefore surveys are not a useful tool. Rather the Species Effects Determination Key is to be utilize for determining potential impacts.

7. **RESOURCES**

Web Resources*

- FWC, Guide to Identifying Panther Tracks <u>https://myfwc.com/media/3108/ez-guide-to-identifying-panther-tracks.pdf</u>
- FWC, Identifying Florida's Native Cats <u>https://myfwc.com/media/20592/floridawildcatsidposterbobcat.pdf</u>
- USFWS Florida Panther Recovery Implementation Team Collection
 <u>https://www.fws.gov/media/florida-panther-recovery-implementation-team-rit-collection</u>
- USFWS Panther Habitat Assessment Methodology, September 24, 2012 <u>https://ipac.ecosphere.fws.gov/guideline/assessment/population/8/office/41420.pdf</u>
- USFWS Florida Panther Five Year Review
 <u>https://ecos.fws.gov/docs/five_year_review/doc4352.pdf</u>
- USFWS Florida Panther Profile https://www.fws.gov/species/florida-panther-puma-concolor-coryi
- USFWS Florida Panther Recovery Plan https://www.fws.gov/species-publication-action/notice-availability-florida-panther-recovery-plan
- USFWS & USACE Florida Panther Effect Determination Key
 <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/endangered_species/Panther/pantherKey_Letter2007FE
 B19.pdf</u>

Lead Specialist(s) for Agencies:

- David Shindle, Panther Coordinator, USFWS, david_shindle@fws.gov, (772) 510-6206
- Kevin Godsea, Project Leader, Southwest Florida Gulf Coast Refuge Complex, kevin_godsea@fws.gov.

Publications:

• FWC Publications - <u>http://myfwc.com/wildlifehabitats/managed/panther/reports/</u>

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.



PHOTO: FDOT 10-foot fencing along I-75/Alligator Alley

APPENDIX 2r Sand Sink

Sand Skink Neoseps reynoldsi



STATUS:	Federal, Threatened	
REGULATORY AGENCY:	U.S. Fish and Wildlife Service (USFWS) and Florida Fish & Wildlife Conservation Commission (FWC)	
FDOT DISTRICTS:	Districts 1 (Polk and Highlands Counties), 2 (Putnam County), 5 (Marion, Lake, Orange, and Osceola Counties), and the Florida's Turnpike Enterprise (Enterprise)	
HABITAT:	Xeric Habitats (scrubby flatwoods, sand pine, oak scrub, turkey oak ridge)	
PRIMARY ISSUES:	Consultation for species impacts	
SEASONAL ISSUES:	Narrow survey window (March 1 – May 15) for coverboard surveys	

1. CONSERVATION STATUS

Federal Status: The sand skink is listed as threatened under the Endangered Species Act (ESA).

State Status: In accordance with Chapter 68A-27, Florida Administrative Code (F.A.C.), the sand skink is state listed as *threatened* pursuant to the ESA federal designation.

Other Applicable Laws: Sand skink occurs within several state and federal conservation lands and protected by applicable laws for these public lands.

2. ECOLOGY & MANAGEMENT

Description: The sand skink is a small light brown lizard with shiny skin, a wedge-shaped snout, small eyes, and reduced legs. The front legs only have one toe, while the hind legs have 2 toes. They can reach a length of approximately 5 inches. Sand skinks are "sand-swimming" reptiles and are rarely seen above ground. Presence is typically noted by distinct sinusoidal tracks left in the open sand as they "swim" just below the surface.

Florida Distribution: Sand skinks have been documented in seven counties in Central Florida, however they may be present in other adjacent counties. The sand skink is endemic to the sandy ridges of central Florida, occurring in Highlands, Lake, Marion, Orange, Osceola, Polk, and Putnam counties.

Suitable Habitat: Three factors are most important in determining suitable habitat for sand skinks: location, elevation, and suitable soils. They are found in the xeric habitats along the Central Florida sand ridges, which are remnants of ancient coastal dunes associated with sea level rise and fall. They generally occur at elevations above 82 feet (above sea level), and are found in excessively well-drained, well-drained, and moderately well-drained soils. Suitable soils include Apopka, Arrendondo, Archbold, Astatula, Candler, Daytona, Duette, Florahome, Gainesville, Hague, Kendrick, Lake, Millhopper, Orsino, Paola, Pomello, Satellite, St. Lucie, Tavares, and Zuber. They prefer habitats with areas of open sand but have been found in degraded conditions with suitable soil types regardless of vegetative cover.



Identification of Suitable Habitat: As sand skinks are more closely associated with soil type than habitat, if a site has suitable soils at or above the appropriate elevation, there is a likelihood of presence and potential effects to skinks should be considered.

Behavior and Activity to Note: Sand skinks are most active and breed between March 1st and May 1st.

Protection and Management Plans: The sand skink is addressed in the Multi-Species Recovery Plan for South Florida (Pages 4-541 - 4-552, USFWS 1999). The sand skink is protected by Florida's Endangered and Threatened Species Rule (Chapter 68A - 27, F.A.C.).

Designated Protection Area or Critical Habitat: No Critical Habitat has been designated. The entirety of their range makes up the consultation area for the sand skink. Generally proposed actions inside the consultation area are more likely to affect sand skinks, and proposed actions outside the consultation area are less likely to affect skinks. Though the consultation area provides an initial analysis tool, users evaluating a proposed action should not consider the consultation area as the only factor in deciding whether or not consultation is required.

Survey Protocol and Requirements: USFWS coverboard survey protocols required. Survey restricted from March 1st to May 15th. Surveys should be conducted a minimum of four times in consecutive weeks within the survey time period to conclude that skinks are not present. Coverboards must be lifted and checked for tracks a minimum of once per week. To learn more, go to https://www.fws.gov/sites/default/files/documents/Sand%20Skink%26Blue-Tailed%20Skink%20Guidelines.pdf.

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): The responsible agency for sand skink consultation is the USFWS. Consultation will be required for this species if positive survey results are documented, and potential impacts are anticipated.

Federal Nexus for Consultation: Any project that is federally authorized, funded, or requires a federal permit which proposes impacts to sand skinks is required to request consultation. Due to the nature of the sand skink habitat types, it is possible that a project does not have the need for a USACE permit. If there is no nexus for consultation via permit, the nexus may be achieved via Section 10 of the ESA if FDOT is not the lead Agency through NEPA Assignment. Due to the length of this process, early coordination is essential.

Type of Consultation: Early coordination with USFWS regarding pedestrian surveys and the need for cover board surveys can help to establish a basis for informal consultation. Any positive survey results will necessitate formal consultation.

Demonstrate Avoidance, Minimization, and Mitigation: FDOT must demonstrate to the USFWS that it is making all efforts to avoid and/or minimize impacts to sand skink habitat from proposed projects. Unavoidable impacts must be mitigated for via the purchase of credits at an approved sand skink conservation bank. Mitigation typically consists of a 2:1 ratio of mitigation to impacts on a per acre basis.

Tools for Section 7 ESA Consultation: No species effects determination key has been developed for the sand skink.

Special Provisions, or Standard Protection Measures: There are no sand skink standard protection provisions or measures for applicants and their construction personnel.

General Timeframes for Consultation and Permitting: Timeframes may depend on the complexity of the project, though would follow the standard USFWS procedures. Early coordination is essential to schedule coverboard surveys and to limit prolonged review times. If a project does not have a federal nexus (OEM NEPA Assignment or USACE 404/USCG bridge permit) consultation under Section 10 of the ESA can take a considerable amount of time.

4. PERMITTING

Prohibited Activities: Activities that can impact habitat of sand skink are prohibited without prior project approval. There is not a specific permit for sand skink impacts. State ERPs and USACE permits are issued to approve the specific project activity. If there is no federal nexus (i.e. OEM NEPA Assignment, USACE 404, or USCG bridge permit) for a project, impacts to sand skinks must be consulted with USFWS via Section 10 of the ESA.

Activities Authorized by Permit: Projects are approved under the state and federal permitting systems and would be addressed in a Biological Opinion issued by USFWS.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review all Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to sand skink. Make sure that construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: Sand skinks are a cryptic species and therefore care must be taken to determine whether they are present or not.

Seasonal Restrictions: In accordance with USFWS survey protocol, coverboard surveys are only allowed from March 1st to May 15th.

Survey Restrictions: Preparation for the survey is extensive. The surveys must cover a period of four weeks, so it is essential to be aware of the need for a survey several months prior to the start of survey season in order to plan and acquire the required materials. Coordination with USFWS staff in the planning stage can help to reduce survey area in some instances, and at a minimum to approve the survey plan and methodology. Missing a survey window can set a project back a full calendar year.

7. **RESOURCES**

Web Resources*

- Endangered Species Consultation Handbook
 <u>https://www.fws.gov/media/endangered-species-consultation-handbook</u>
- USFWS Sand Skink Fact Sheet <u>https://www.fws.gov/species/florida-sand-skink-neoseps-reynoldsi</u>
- FDOT OEM Survey Instructional Video Sand Skink/ Blue Tailed Mole Skink Survey Training Video (3/8/23) (youtube.com)
- USFWS Skink Consultation Guide with 2023 Survey Protocol
 <u>https://www.fws.gov/sites/default/files/documents/Sand%20Skink%26Blue-Tailed%20Skink%20Guidelines.pdf</u>
- USFWS Multi Species Recovery Plan <u>https://ecos.fws.gov/docs/recovery plan/sfl_msrp/SFL_MSRP_Species.pdf</u>
- FWC Sand Skink Profile <u>https://myfwc.com/wildlifehabitats/profiles/reptiles/sand-skink/</u>
- USFWS Sand skink Survey Protocol (2023) <u>https://www.fws.gov/sites/default/files/documents/Sand%20Skink%26Blue-Tailed%20Skink%20Guidelines.pdf</u>

Lead Specialist(s) for Agencies: USFWS does not have a dedicated specialist for sand skinks though each office does have a staff member to specifically handle all FDOT projects within the region. FWS Florida Ecological Services Office: 352-448-9151

Publications:

- Ashton, K.G. (2005). Life History of a Fossorial Lizard, *Neoseps reynoldsi*. Journal of Herpetology. Vol. 39, No. 3, pp. 389-395, Lake Placid, Florida.
- Christman, S.P 1988 Endemism in Florida's interior sand pine scrub. Florida game and Freshwater Fish Commission. Nongame Wildlife Program. Final Report, Tallahassee, FL.
- Christman, S.P., 1992. Sand skink, *Neoseps reynoldsi* (Stejneger). Pages 135-140 in P. E. Moler, editor. Rare and Endangered Biota of Florida. Volume III. Amphibians and reptiles. University Press of Florida, Gainesville, Florida, USA.
- Florida Natural Areas Inventory. 2001. Field guide to the rare animals of Florida. https://www.fnai.org/PDFs/FieldGuides/Neoseps_reynoldsi.pdf
- Telford, S.R., Jr. 1959. A study of the sand skink, Neoseps reynoldsi. Copeia 1959 (2):100-119.

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 2s Corals



Corals

STATUS:	Protected through Federal and State Regulations	
AGENCY:	Environmental Protection Agency (EPA); U.S. Army Corps of Engineers (USACE); National	
	Marine Fisheries Service (NMFS or NOAA Fisheries); Florida Department of Environmental	
	Protection (FDEP), Water Management Districts (WMDs); and the Florida Fish and Wildlife	
	Conservation Commission (FWC)	
FDOT DISTRICTS:	Districts – 1, 4, and 6	
HABITAT:	Coastal Marine Environments	
PRIMARY ISSUES:	Section 7 Endangered Species Act (ESA) and Essential Fish Habitat (EFH) Consultation	
SEASONAL ISSUES:	Avoid environmental stressors when corals are experiencing heat or cold stress (stony coral	
	bleaching threshold is 29.5°C)	

1. CONSERVATION STATUS

Federal Status: Several federal regulations are in place to protect corals and the substrate that support them.

• <u>Endangered Species Act of 1973 (ESA)</u> - Seven coral species are listed as threatened and critical habitat has been designated for each.

COMMON NAME	SCIENTIFIC NAME	DEPTH	RANGE
Boulder star coral	Orbicella franksi	1 to 295 ft. / dense assemblages	SE FL from Lake Worth Inlet in Palm Beach County
		of large old colonies	to the Dry Tortugas – <u>Critical Habitat Designated</u>
Elkhorn coral	Acropora palmata	1 to 15 ft. / form dense groups in	SE FL & Keys – <u>Critical Habitat Defined</u>
		shallow water.	
Lobed star coral	Orbicella annularis	1 to 66 ft. / dense assemblages of	SE FL from Lake Worth Inlet in Palm Beach County
		large old colonies	to the Dry Tortugas - Critical Habitat Designated
Mountainous star coral	Orbicella faveolata	1 to 295 ft. / dense assemblages	SE FL from St. Lucie Inlet in Martin County to the
		of large old colonies	Dry Tortugas – Critical Habitat Designated
Pillar coral	Dendrogyra cylindrus	3 to 82 ft. / scattered rarely	SE FL & Keys – Critical Habitat Designated
		found in aggregations	
Rough cactus coral	Mycetophyllia ferox	16 to 295 ft. / least common	SE FL from Broward County to the Dry Tortugas -
-		coral	Critical Habitat Designated
Staghorn coral	Acropora cervicornis	15 to 60 ft. /dense groups in	SE FL & Keys – Critical Habitat Defined
	_	shallow water	

- <u>Clean Water Act (CWA)</u> 33 U.S.C. §1251(a)(1)-(3) (1972), Section 404 regulates "the effect of disposal of pollutants on human health or welfare, including...shorelines, and beaches...." [33 U.S.C. §1251(c)(1)(A)]. Section 404 guidelines establish the standards to be used by the EPA and USACE in the review of permit applications "to discharge dredged or fill material in the nation's waters, including marine waters that are home to coral reefs." [33 U.S.C. §1251(b)(1)]. Projects that require Section 404 permitting with suitable coral habitat will need to be evaluated and avoidance, minimization, and mitigation determined if present.
- <u>*Rivers and Harbors Act of 1899 (RHA) (33 U.S.C. Sec. 401 et seq.)*</u> authority for the USACE regulatory permit program to protect navigable waters in the development of harbors and other construction and excavation. Section 10 of the RHA (33 U.S.C. Sec. 403) prohibits the unauthorized obstruction or alteration of any navigable water of the U.S. Activities requiring section 10 permits include structures (e.g., piers, wharfs, breakwaters, bulkheads, jetties, weirs, transmission lines) and work such as dredging or disposal of dredged material, or excavation, filling, or other modifications to the navigable waters of the United States.
- <u>Marine Protection, Research, and Sanctuaries Act (MPRSA)</u> known as the Ocean Dumping Act, it prohibits "the dumping of material into the ocean that would unreasonably degrade or endanger human health, welfare, or amenities, or the marine environment, ecological systems, or economic potentialities." [33 U.S.C. §1401]. Section 102 of MPRSA requires the EPA, in consultation with USACE, to develop environmental criteria that must be met before any proposed ocean disposal activity is allowed that may adversely impact coral.
- <u>Executive Order (EO) 13089, Coral Reef Protection</u> order established the interagency <u>U.S. Coral Reef Task Force</u> (USCRTF), co-chaired by the Secretary of the Interior and the Secretary of Commerce through the Administrator of the National Oceanic and Atmospheric Administration (NOAA). The USCRTF is charged with developing and

implementing a comprehensive program of research and mapping to inventory, monitor, and "identify the major causes and consequences of degradation of coral reef ecosystems."

- <u>Magnuson-Stevens Fishery Conservation and Management Act</u> (MSA) protects EFH which are designated by NOAA Fisheries and the regional fishery management councils under the MSA. Benthic habitats, such as hard bottom and corals, are designated as EFH and are to be assessed by NOAA Fisheries.
- <u>National Marine Sanctuary Act (NMSA)</u> The <u>Florida Keys National Marine Sanctuary</u> is administered by NOAA under NMSA to protect areas of the marine environment with special national significance due to their conservation, recreational, ecological, historical, scientific, cultural, archeological, educational, or esthetic qualities as national marine sanctuaries. [See Appendix on the FL Keys National Marine Sanctuary.]

State Status: Several State regulations protect corals and the habitats that support them including:

- <u>Endangered and Threatened Species, Chapter 68A-27, F.A.C.</u> mirrors federal ESA protections for the seven coral species and provides provisions for "take".
- <u>Outstanding Florida Water (OFW)</u> [See Fla. Stat. §403.061(27) (2018) also F.A.C.R. 62-302.700(9)]. -The OFW rule states "[t]hat the level of protection afforded by the designation as Outstanding National Resource Waters is clearly necessary to preserve the exceptional ecological or recreational significance of the waters." [F.A.C.R. 62-302.700(6)(b)]. This designation is the highest protection in Florida for waters, as stated: "The waters are of such exceptional recreational or ecological significance that water quality should and can be maintained and protected under all circumstances other than temporary degradation and the lowering allowed by §316 of the Federal Clean Water Act (CWA)...". [F.A.C.R. 62-302.700(6)(a).]
- <u>Florida Keys Area Protection Act</u> The State has designated the Keys an "area of critical state concern." [See Fla. Stat. §380.0552 (2016).] This affords the Keys the highest level of environmental protection. The State regulates the Keys and surrounding waters including the coral reefs through this designation.
- <u>Florida Coral Reef Protection Act (CRPA)</u> Fla. Stat. §403.93345 (2015) statutory protection to regulate boating incidents that contribute to the degradation of coral reefs. The CRPA declares that "it is in the best interest of the state to clarify the department's powers and authority to protect coral reefs through timely and efficient recovery of monetary damages resulting from vessel groundings and anchoring-related injuries."

2. HABITAT

Description: Corals are diverse groups of invertebrate animals. Coral polyps are tiny, soft-bodied organisms that are related to jellyfish and sea anemones. There are two categories of coral:

- Hard Corals corals that have six tentacles or multiples of six. Colonial hard corals, consisting of hundreds to hundreds of thousands of individual polyps, are cemented together by the calcium carbonate "skeletons" they secrete. As colonies grow over hundreds and thousands of years, they join together to become reefs.
- Octocorals corals that have eight tentacles. Most octocorals secrete a flexible skeleton that consists of a central core made of a protein called gorgonin and outer layer called the rind. The polyps are embedded in the rind. Octocorals are also called gorgonians and "soft corals."

Florida Distribution: Coral habitats extends from Martin County on the Atlantic Coast, through the Keys, and the Dry Tortugas in the Gulf of Mexico. On the Gulf areas include the East and West Flower Garden Banks, Florida Middle Grounds, southwest tip of the Florida reef tract, and predominant patchy hard bottom offshore from approximately Crystal River south. See <u>Coral Essential Fish Habitat (EFHJ) Map & GIS Data.</u>

Suitable Habitat: Types of coral habitats include:

- *Hardbottom* This habitat is close to shore and is dominated by octocorals, sponges, and algae with low stony coral coverage and diversity.
- *Patch reef* This habitat is characterized by high diversity of both octocorals and stony corals. A mature patch reef is roughly circular, and the perimeter is buttressed by large boulder corals.
- *Shallow offshore reef* This habitat is a high-energy environment with large branching corals.
- Deep offshore reef This habitat contains a diverse array of benthic organisms including barrel sponges, octocorals, and stony corals.

How to know if you have suitable habitat? Projects with coral impacts include coastal structures like wharfs, piers, jetties, drainage structures, bridges, riprap, and seawalls. Or coastal roadway projects that have dredge and fill impacts in marine environments, and/or water quality impacts. Corals can be found within intracoastal waterways, bays, harbors, canals, and intertidal areas. Two-thirds of Florida's Coral Reef lies within Biscayne National Park and the Florida Keys National Marine Sanctuary.

Protection and Management Plan: Florida's coral reefs are threatened by rapid coastal development, climate change, water quality issues, sedimentation, overfishing, and disease. Under the ESA, the seven species of coral listed have recovery plans. These plans focus on variety of actions for addressing coral health risks, improving habitat, promoting recruitment, and monitoring species trends.

Designated Protection Area or Critical Habitat: Critical habitat has been designated. See Species Table above.

Survey Protocol and Requirements: Prior to the survey, conduct a desktop review of the project area using both the Efficient Transportation Decision Making (ETDM) Environmental Screening Tool (EST) and the NOAA Fisheries EFH Mapper to determine potential for coral and/or suitable habitats within the project area.

Surveys are conducted using either snorkel or SCUBA equipment depending on water depth. Transects are identified based on the environment and project specifics. Observations and data are recorded on underwater datasheets and the locations of coral identified with a Global Positioning System (GPS). Underwater photographs should document benthic resources observed. Sampling should consider density, location, coverage, species, turbidity, substrate, current, depth, shading, etc. Surveys are conducted as part of a Benthic Survey Report or NRE to evaluate potential impacts to benthic resources and influence FDOT's design and permitting process.

3. PERMITTING

What activities are prohibited? Direct impacts to coral such as dredge and fill activities, damage from barges, removal of structures supporting coral. Indirect impacts such as water quality, shading, and sedimentation.

What kinds of activities can permits authorize? Permit authorization varies based on the proposed project scope, location, type of impact, and measures (such as project components, construction precautions, or conservation measures) taken to avoid or minimize effects.

4. AGENCY COORDINATION

Who is the responsible agency(s) for this species? The lead resource agencies are NOAA Fisheries (fed.) and FWC (state). The permitting agencies could include the EPA, USACE, Marine Sanctuary, FDEP, and WMD.

Federal Nexus for consultation? Federally funded activities or activities that require a federal permit that *may affect* coral requires an ESA (Section 7 or 10) consultation and separate EFH consultation. Note some activities may be covered under the JaxBO, a Programmatic Biological Opinion (PBO) between he USACE and NMFS which allows for the streamlining of the Section 7 ESA process for groups of frequently occurring activities and Federal action agency policies, plans, programs that have well-understood effects on listed species and designated habitat. It provides for ten categories of "in-water" activities including: (1) shoreline stabilization; (2) pile-supported structures and anchored buoys; (3) maintenance, minor, and muck dredging; (4) water-management outfall structures and associated endwalls; (5) scientific survey devices; (6) boat ramps; (7) aquatic habitat enhancement, establishment, and restoration activities; (8) transmission and utility lines; (9) marine debris removal; and, (10) temporary platforms, fill, and cofferdams.

Demonstrate Avoidance, Minimization, and Mitigation/Commitments: FDOT must demonstrate avoidance and minimization through a range of alternatives including, but not limited to, upland alternatives that do not involve in-water work; alternative sites with little to no coral resource; non-structural alternatives that meet the project purpose; modifications to project size and footprint; modifications to project design, which may include using pilings instead of fill, moving the facility shoreward to reduce in-water work, and reducing the length or width of a pier or breakwater; and alternative methods such as horizontal directional drilling instead of trenching. If coral, octocoral, and sponge impacts cannot be avoided, a *Conceptual Relocation and Monitoring Plan* may be required by NOAA Fisheries and FWC for those that are of a suitable size (defined as colonies 5 cm in diameter or greater and ≥ 2 cm in height) for relocation. For those that are too large to relocate, a Mitigation Plan is to be provided. The agencies are available to provide technical expertise. Note that removal and relocation of coral and octocoral species are considered as minimization of impacts and not as mitigation.

Design Plan Notes: Project specific general notes can be added to alert the contractor(s) to avoid activities or areas that may impact coral or cause water quality/sedimentation issues.

General timeframes for consultation and permitting: Timely issuance of permits is dependent on completion of ESA and EFH consultations for potential impacts to the corals or water quality/sedimentation. Consultation can be a lengthy process so begin early.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Prior to the commencement of construction, advise personnel that it is a violation of law to intentionally take, harass, wound, or kill a federally protected coral (ESA) or impact EFH resources. Any person who violates this provision is guilty of a felony of the third degree, punishable by fine and other compensations. Compensation includes - equivalent value of the injured coral area, including the value of the lost use and ecological services of the injured coral; cost of damage assessments; cost of actions taken to minimize or prevent further injury to the coral; cost of monitoring an injured, restored or replaced coral aggregate for at least 10 years depending on the injury size; cost of enforcement actions taken in response to coral damage, including court costs, attorney fees and expert witness fees. Penalties may be increased for incidents occurring within a state park or aquatic preserve.

Review all environmental permits for Special Conditions and conservation measures related to the use of boats/barges, identification markers, best management practices, stormwater protection plan, etc. Make sure that construction personnel have copies. Be certain that the condition(s) is strictly followed.

6. ECOLOGY & MANAGEMENT

Tip: The ETDM Environmental Screening Tool has GIS data layers for Critical Habitat and EFH under resource category of *Wildlife and Habitat*.

Internal Coordination: Early internal coordination between environmental, design, and construction is important so that the project scope is clear and construction methodology options are available to understand potential impacts to coral and water quality/sedimentation.

7. **RESOURCES**

Lead Specialist(s) for Agencies on this species? Yes, coral specialists can be found within NOAA Fisheries, go through your regional NOAA Fisheries ETAT representative for specific guidance.

Resources:

- USCRTF, Handbook on Coral Reef Impacts: Avoidance, Minimization, and Restoration, December 2016
- Fishery Ecosystem Plan of the South Atlantic Region (available at <u>www.safmc.net</u>).
- Florida Fish and Wildlife Conservation Commission (FWC). 2020. Coral and Octocoral Mitigation Relocation Recommendations.
- Florida Fish and Wildlife Conservation Commission (FWC). 2015. Coral and Octocoral Visual Health Assessment Protocols for Relocation Activities
- National Marine Fisheries Service. 2015. *Recovery Plan for Elkhorn and Staghorn Corals*. Prepared by the Acropora Recovery Team for the National Marine Fisheries Service, Silver Spring, Maryland.

APPENDIX 2t

Frosted & Reticulated Flatwoods Salamanders

Reticulated Flatwoods Salamander Ambystoma bishopi



STATUS:	Federal, Endangered
AGENCY:	U.S. Fish and Wildlife Service (USFWS)
FDOT DISTRICTS:	District 3
HABITAT:	Slash and longleaf pine flatwoods with a wiregrass floor and scattered wetlands. Breeding occurs in small ponds from October to January. Only occurs west of the Apalachicola River.
PRIMARY ISSUES:	Critical Habitat designated in seven counties (Calhoun, Holmes, Jackson, Okaloosa, Santa Rosa, Walton, Washington). Consultation for potential impacts to the species or its Critical Habitat is required.
SEASONAL ISSUES:	No seasonal restrictions, though seasonal movement to breeding ponds is important to the species' life history (October to January).

Frosted Flatwoods Salamander

Ambystoma cingulatum



STATUS:	Federal, Threatened
AGENCY:	USFWS
FDOT DISTRICTS:	District 2 (Baker County), District 3
HABITAT:	Slash and longleaf pine flatwoods with a wiregrass floor and scattered wetlands. Breeding occurs in small ponds from October to January. Only occurs east of the Apalachicola River.
PRIMARY ISSUES:	Critical Habitat Designated in five counties (Baker, Franklin, Jefferson, Liberty, Wakulla). Consultation for potential impacts to the species or its Critical Habitat is required.
SEASON ISSUES:	No seasonal restrictions, though seasonal movement to breeding ponds is important to the species' life history (October to January)

1. CONSERVATION STATUS

Federal Status: The reticulated flatwoods salamander is listed as *endangered* under the Endangered Species Act (ESA). The frosted flatwoods salamander is listed as *threatened*.

State Status: The reticulated flatwoods salamander is federally-designated *endangered*, and the frosted flatwoods salamander is listed as federally-designated *threatened* under Florida's Endangered and Threatened Species Rule.

Other Applicable Laws: Other laws that may apply include the National Forest Management Act and the Sikes Act (Lands owned by Department of Defense), which protect the forests where these species live. Section 404 of the Clean Water Act may also apply in some cases for the protection for the wetland breeding sites.

2. ECOLOGY & MANAGEMENT

Description: Both species of flatwoods salamanders have a silvery-gray or black body with light gray or white flecked lines forming a net-like pattern on the back, sides, head, and tail. The frosted forms show a more random flecking pattern while the reticulated has a more distinct pattern. Both species have a small head and black ventral orientation. Mature individuals can reach approximately 5 inches in body length.

Florida Distribution: The reticulated species only occurs in the counties west of the Apalachicola River in Florida's panhandle, while the frosted occurs east of the Apalachicola River in Franklin, Wakulla, Liberty, Jefferson, and Baker counties.

Suitable Habitat: Suitable habitat for the two species includes scattered wetlands within slash and longleaf pine flatwoods that includes wiregrass groundcover. Seasonal ponds and even puddles of water are key as the breeding areas for these salamanders. The seasonally flooded areas are open but do not connect to other water bodies and lack large predatory fish.





Reticulated Flatwoods Salamander

Frosted Flatwoods Salamander

Identification of Suitable Habitat: A desktop review should be conducted to determine the likelihood of suitable pine flatwoods for salamander breeding habitat or if Critical Habitat exists within the project area. Field reviews of likely breeding habitat should be conducted to confirm the desktop analysis.

Protection and Management Plans: Currently, there are no federal management plans. However, FWC has a statewide management plan that would include both the frosted and reticulated flatwoods salamander species. This plan sets a conservation goal of maintaining at least 129 self-sustaining populations of flatwoods salamanders in Florida. The plan outlines a monitoring plan for population status assessment, an implementation strategy for the management, and areas for research. Go to: https://myfwc.com/media/2026/flatwoods-salamander-management-plan.pdf

Designated Protection Area or Critical Habitat: Critical Habitat for the reticulated flatwoods salamander has been designated in ten units that encompass approximately 7,496 acres within seven western panhandle counties. Critical Habitat for the frosted flatwoods salamander has been designated in ten units that encompass 23,132 acres (this total includes 3 counties in South Carolina). The USFWS Critical Habitat Mapping Portal can be used to identify the areas of Critical Habitat at https://fws.maps.arcgis.com/home/item.html?id=9d8de5e265ad4fe09893cf75b8dbfb77#!

Survey Protocol and Requirements: No survey protocols have been established by USFWS for the flatwoods salamanders. However, they recommend surveying for larvae via dip-netting or minnow-trap in breeding ponds. Adults live underground most of the year and are difficult to locate.

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): USFWS has the jurisdiction under the ESA for flatwoods salamanders.

Federal Nexus for Consultation: Federal consultation is required and can be conducted during the FDOT PD&E process or as part of the permitting process with the USACE.

Type of Consultation: Coordination should be initiated early in the project. Informal consultation can be initiated for projects with low likelihood of flatwoods salamanders or habitat in the project area. Formal consultation will be required for projects that contain Critical Habitat or have high likelihood of flatwoods salamander habitat impacts.

Demonstrate Avoidance, Minimization, and Mitigation: Standard avoidance and minimization for the project design during permitting will be necessary. Potential breeding ponds should be identified during wetland delineations. Mitigation for impacts to flatwoods salamanders has not been identified at this time.

Tools for Section 7 ESA Consultation: No species effects determination key has been developed for the flatwoods salamanders.

Special Provisions, or Standard Protection Measures: There are no current existing standard provisions for flatwoods salamanders.

General Timeframes for Consulting and Permitting: No specific time frames for permitting specific to flatwoods salamanders are documented. Should the project require formal consultation and a Biological Opinion, standard consultation time frames should be anticipated.

4. PERMITTING

Prohibited Activities: Activities that could adversely affect flatwoods salamanders or their habitat include dredging, disposal of dredged materials, contamination of water in breeding ponds, draining, or changing the hydrology of breeding ponds, land use conversion of pine flatwoods, or timber management that does not follow the guidelines provided in the final ESA listing rule.

Activities Authorized by Permit: Only those activities that are either determined to be exempt or approved in a federal permit can be conducted.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review of Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to flatwoods salamanders. Make sure that construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one-year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, https://original-ufdc.uflib.ufl.edu/IR00000987/00001.

6. TIPS

Tips: Flatwoods salamanders are cryptic species and therefore care must be taken to determine whether they are present or not.

Seasonal Restrictions: There are currently no seasonal restrictions, though seasonal movement to breeding ponds is important to the species' life history. Flatwoods salamanders migrate to ponds or small puddles to breed from October to January during wet weather.

Survey Restrictions: There is not currently any USFWS designated survey protocol for flatwoods salamanders.

7. **RESOURCES**

Web Resources*

- USFWS Endangered Species Consultation Handbook
 <u>https://www.fws.gov/media/endangered-species-consultation-handbook</u>
- USFWS Environmental Conservation Online System Flatwoods Salamanders Profiles
 <u>https://www.fws.gov/species/reticulated-flatwoods-salamander-ambystoma-bishopi</u>

 <u>https://www.fws.gov/species/flatwoods-salamander-ambystoma-cingulatum</u>
- FWC Flatwoods Salamanders Profiles
 <u>https://myfwc.com/wildlifehabitats/profiles/amphibians/frosted-flatwoods-salamander/</u>
 <u>https://myfwc.com/wildlifehabitats/profiles/amphibians/reticulated-flatwoods-salamander/</u>
- Florida Museum, University of Florida, Salamanders https://www.floridamuseum.ufl.edu/herpetology/florida-amphibians-reptiles/salamanders/

Lead Specialist(s) for Agencies: Harold Mitchell, Ecologist. USFWS 1601 Balboa Avenue, Panama City, FL, 32405. (850) 960-4711. <u>Harold_Mitchell@fws.gov</u>

Publications:

- Ashton, S.P.,1992. Flatwoods salamander, *Ambystoma cingulatum*. Pages 39-43in P. E. Moler, editor. Rare and Endangered Biota of Florida. Volume III. Amphibians and reptiles. University Press of Florida, Gainesville, Florida, USA.
- Florida Natural Areas Inventory. 2001. Field guide to the rare animals of Florida. <u>https://www.fnai.org/PDFs/FieldGuides/Ambystoma_cingulatum.pdf</u> <u>https://www.fnai.org/PDFs/FieldGuides/Ambystoma_bishopi.pdf</u>
- Goin C.J. 1950. A study of the salamander, *Ambystoma cingulatum*, with the description of a new subspecies as cited in Pauly, Gregory; Oliver Piskurek; Bradley Shaffer (2007). "Phylogeographic concordance in the southeastern United States: the flatwoods salamander, *Ambystoma cingulatum*, as a test case". Molecular Ecology 16 (2): 415-429.
- Krysko, K., K. Enge, and P. Moler. 2011. *Ambystoma bishopi* Goin 1951 Reticulated flatwoods salamander. Atlas of Amphibians and Reptiles in Florida.

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.



Ambystoma cingulatum (COPE 1868), Flatwoods Salamander



Ambystoma bishopi (GOIN 1950), Reticulated Flatwoods Salamander

APPENDIX 2u Gulf Sturgeon

Gulf Sturgeon Acipenser oxyrinchus desotoi



STATUS:	Federal, Threatened	
AGENCY:	U.S. Fish & Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), Florida Fish & Wildlife Conservation Commission (FWC)	
FDOT DISTRICTS:	Districts 1, 2 3, and 7	
HABITAT:	Anadromous (moves from marine to freshwater rivers in spring to spawn, return to marine in fall)	
PRIMARY ISSUES:	Obstructing spawning sturgeon or impacting designated Critical Habitat	
SEASONAL ISSUES:	Seasonal spawning in rivers, maintaining channel openings	

1. CONSERVATION STATUS

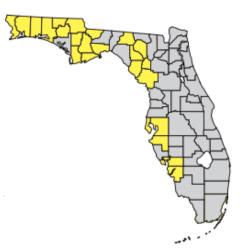
Federal Status: The Gulf sturgeon is listed as *threatened* under the Endangered Species Act (ESA). Gulf sturgeon have designated Critical Habitat protected under the ESA (see figure below).

State Status: In accordance with Chapter 68A-27, F.A.C., the Gulf sturgeon is listed as *threatened* by FWC by virtue of designation by the ESA.

Other Applicable Laws: Gulf sturgeon habitat is protected by the Federal Clean Water Act.

2. ECOLOGY & MANAGEMENT

Description: The Gulf sturgeon is a prehistoric fish species that dates back to the time of dinosaurs. One of seven North American species of sturgeon, they reach lengths up to nine feet and can weigh over 300 pounds. They have a cartilaginous skeleton, a shark-like tail, whiskers like a catfish, and hard scutes along their body. Gulf sturgeon have no teeth, rubbery lips, and a suctorial mouth on the underside of their snout for vacuuming food off the bottom. They are dark brown along the dorsal side and light colored along the underside. No other sturgeon species are known to occur in Florida's Gulf coastal waters.



Sturgeon Distribution by County - Field Guide to the Rare Animals of Florida, Florida Natural Areas Inventory, 2001

Florida Distribution: Gulf sturgeon are documented in the Escambia, Blackwater, Yellow, Choctawhatchee, Apalachicola, Ochlockonee, and Suwannee Rivers in Florida, as well as estuaries, bays, and the Gulf of Mexico.

Suitable Habitat: As an anadromous fish, they migrate from marine and estuarine environments to freshwater rivers in the spring to spawn. Gulf sturgeon feeding habits vary depending on the fish's life history stage. Young sturgeon remain in freshwater feeding on aquatic invertebrates and detritus approximately 10 to 12 months after spawning occurs. Juveniles forage more extensively throughout the river, while adults exclusively forage in marine environments.

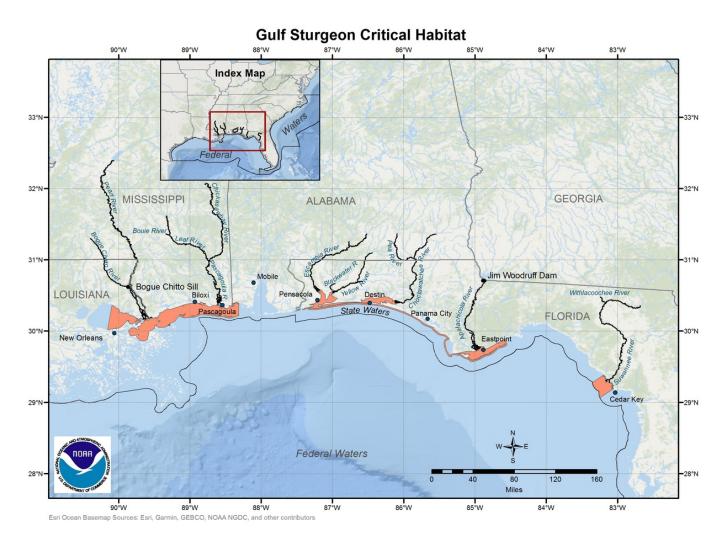
Identification of Suitable Habitat: A project that occurs in the bays or estuaries of the panhandle or crosses any of its rivers (Escambia, Blackwater, Yellow, Choctawhatchee, Apalachicola, Ochlockonee, and Suwannee Rivers) is within the suitable habitat range for the Gulf sturgeon. Critical Habitat boundaries can be found using the National Oceanic and Atmospheric Administration

(NOAA) Fisheries (NMFS) Critical Habitat Mapping Portal at: <u>https://www.fisheries.noaa.gov/resource/map/gulf-sturgeon-critical-habitat-map-and-gis-data.</u>

Behavior and Activity to Note: Gulf sturgeon are bottom feeders and typically forage for invertebrates, crustaceans, worms, and mollusks. Between February and April, adult sturgeon will travel upstream in freshwater to spawn. After spawning, they move downriver between September and November and spend the winter feeding in the Gulf of Mexico.

Protection and Management Plans: The <u>Gulf Sturgeon Recovery/Management Plan</u> was created in 1995 to outline reasonable actions believed to be required to recover and/or protect the species. It includes provisions to prevention further reductions in wild populations, establishment of populations to allow the delisting of this species, and establishment of self-sustaining populations that can withstand directed fishing pressure within each river system. Other goals include protection and restoration of essential habitat, study details of life history, and to reduce or eliminate incidental mortality. The species is jointly managed by both the USFWS and NMFS. The gulf sturgeon is protected by Florida's Endangered and Threatened Species Rule [Chapter 68A - 27, Florida Administrative Code (F.A.C.).]

Designated Protection Area or Critical Habitat: In 2002, the USFWS and NMFS officially designated Critical Habitat for the gulf sturgeon consisting of 14 geographic areas from Florida to Louisiana, encompassing spawning rivers and adjacent estuarine areas. These areas contain features that are essential for Gulf sturgeon survival including suitable spawning habitat that consists of limestone bedrock and cobble.



NMFS Designated Critical Habitat

Survey Protocol and Requirements: No NMFS designated survey protocols.

3. AGENCY COORDINATION (FEDERAL)

Responsible Agency(s): The Gulf sturgeon is jointly managed by both the USFWS and NMFS. Most projects will likely involve the sturgeon in freshwater habitat and the lead agency is the USFWS, though NMFS will still coordinate. For projects in the marine

environment, NMFS takes the lead. Consultation is required for this species if potential impacts are anticipated. The Gulf sturgeon is covered by JaxBO, this is a Programmatic Biological Opinion (PBO), which allows for the streamlining of the Section 7 ESA consultation process (See Programmatic Agreement Appendix), for "in-water" work on minor projects. This PBO is applicable for projects that require consultation for a protected species or its Critical Habitat. The JaxBO streamlines consultation and reduces the need to initiate formal consultation. The JaxBo should be a first resource for a desktop review prior to coordination with regulatory staff on potential involvement for minor projects with the Gulf sturgeon and its Critical Habitat. The JaxBO can be viewed here:

http://www.saj.usace.army.mil/Missions/Regulatory/Public-Notices/Article/1383940/final-programmatic-biological-opinion-jaxbo/

Federal Nexus for Consultation: Any project that is authorized, funded, or requires a federal permit which proposes to impact sturgeon or designated Critical Habitat requires consultation.

Type of Consultation: JaxBO will likely address many projects that presume to have minor impacts to the species or Critical Habitat. Informal consultation can be requested for many projects not covered by JaxBO which are presumed to have a minimal impact to Gulf sturgeon or habitat. Formal consultation will be required for projects with more impacts (major dredging, dams, significant fill, driving piles, prolonged work in water).

Demonstrate Avoidance, Minimization, and Mitigation: FDOT must demonstrate to the USFWS that it is making all efforts to avoid and/or minimize impacts to Gulf sturgeon habitat from proposed projects. This effort is essential to the consultation processes and may include commitments such as modifying proposed plans to avoid impacts to water bodies, altering construction methodology to avoid in-water work during spawning season, and likely include a commitment for *Construction Special Provisions Gulf Sturgeon Protection Guidelines* to be incorporated into any construction plans. Mitigation is not typically required Protection of existing spawning areas is critical; any main channel or tributary construction or maintenance should be avoided during spawning periods.

Minimizing impacts can include, but are not limited to, such activities as: Educating construction personnel on the identification of Gulf sturgeon; notifying personnel that there are penalties (both civil and criminal) for harming, harassing, or killing Gulf sturgeon; training onsite personnel to maintain constant surveillance and to initiate the cessation of activities until any sturgeon identified are clear of the construction area(s); posting of signs warning of Gulf sturgeon presence; controlling turbidity and using turbidity curtains to restrict access sturgeon from the construction area; eliminating bottom dredging; providing a spotter at appropriate times of the year during in-water construction activities to maintain constant surveillance for the species; and, maintaining channel openings.

Tools for Section 7 ESA Consultation: No species effects determination key.

Special Provisions, or Standard Protection Measures: *Construction Special Provisions for Gulf Sturgeon Protection Guidelines* (NMFS and USFWS) are to be incorporated into any construction plans if suitable habitat is present. In addition, FDOT has *Special Provisions* for Gulf sturgeon expanding the existing requirements when it is known that the sturgeon is present within the project footprint. To learn more, go to:

https://fdotwww.blob.core.windows.net/sitefinity/docs/defaultsource/programmanagement/implemented/workbooks/janworkbook2022/sp0070104-8-122.pdf?sfvrsn=aa9d2430 2.

General Timeframes for Permitting: Timeframes may depend on the complexity of the project, though it would follow the standard USFWS procedures. Early coordination is essential to limit prolonged review times. Refer to section on "Type of Consultation".

4. PERMITTING

Prohibited Activities: Activities that can impact habitat of Gulf sturgeon (dredging, filling, water quality degradation) or the animals themselves (boats and equipment in the water) are prohibited without prior project approval. There is not a specific permit for Gulf sturgeon impacts. State ERPs and USACE permits are issued to approve the specific project activity.

Activities Authorized by Permit: Projects are approved under the state and federal permitting systems. If impacts are proposed to sturgeon or Critical Habitat, they would be addressed in a Biological Opinion issued by USFWS.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review of Environmental Permits for Special Conditions: Prior to construction, review any Special Conditions in the permits related to sturgeon and Critical Habitat. Make sure construction personnel have copies.

Prior to the Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, https://original-ufdc.uflib.ufl.edu/IR00000987/00001.

6. TIPS

Tips: The USFWS will be looking for FDOT to demonstrate that all erosion control and stormwater management efforts are being implemented, underwater noise is minimized to the greatest extent practicable, and that waterway passages are clear of obstruction.

Seasonal Restrictions: Depending on the size of the waterbody, restrictions may be placed on in-water work that would restrict the movement of sturgeon upriver early in the year to reach spawning grounds and downriver back to the Gulf of Mexico in late fall.

Survey Restrictions: Surveys are not required.

7. RESOURCES

Web Resources*

- USFWS Gulf Sturgeon Species Profile <u>https://www.fws.gov/species/gulf-sturgeon-acipenser-oxyrinchus-desotoi</u>
- USFWS Gulf Sturgeon Recovery Plan https://ecos.fws.gov/docs/recovery_plan/950922.pdf
- NMFS Critical Habitat Mapping Portal https://www.fisheries.noaa.gov/resource/map/gulf-sturgeon-critical-habitat-map-and-gis
- NOAA Fisheries Gulf Sturgeon Profile https://www.fisheries.noaa.gov/species/gulf-sturgeon#overview
- FWC Gulf Sturgeon Profile <u>https://myfwc.com/wildlifehabitats/profiles/saltwater/gulf-sturgeon/</u>
- NMFS and USACE Jacksonville Programmatic Biological Opinion <u>http://www.saj.usace.army.mil/Missions/Regulatory/Public-Notices/Article/1383940/final-programmatic-biological-opinion-jaxbo/</u>

Lead Specialist(s) for Agencies: USFWS Gulf Sturgeon Recovery Coordinator: Dr. Adam Kaeser. 1601 Balboa Avenue, Panama FL, 32405. (850) 769-0552 ext. 244348-6496. Adam Kaeser@fws.gov

Other Federal, State, and Local Sources: Report a Stranded, Injured, or Dead Sturgeon to NOAA Fisheries at (978) 281-9328. To report a Gulf sturgeon strike, contact FWC Wildlife Alert Hotline at (888) 404-3922.

Publications:

Federal Register (1991) Endangered and threatened wildlife and plants: Threatened status for the Gulf sturgeon. Code of Federal Regulations, 50 CFR Part 17. 56(189):49653-49658.

Federal Register (2003) Endangered and threatened wildlife and plants: Designation of critical habitat for the Gulf sturgeon. Code of Federal Regulations, 50 CFR Parts 17 and 226. 68(53):13370-13495.

Gulf Sturgeon (*Acipenser oxyrinchus desotoi*). 5-Year Review: Summary and Evaluation. 2009. U.S. Fish and Wildlife Service, Southeast Region, Panama City Ecological Services Field Office, Panama City, Florida and National Marine Fisheries Service, Southeast Region, Office of Protected Resources, St. Petersburg, Florida.



Ross ST, Slack WT, Heise RJ, Dugo MA, Rogillio H, Bowen BR, Mickle and P, Heard RW (2009) Estuarine and coastal habitat use of Gulf sturgeon (*Acipenser oxyrinchus desotoi*) in the North-Central Gulf of Mexico. Est Coasts 32:360–374.

United States Fish and Wildlife Service and Gulf States Marine Fisheries Commission. 1995. Gulf sturgeon recovery plan. Atlanta, Georgia.

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 2v

Freshwater Mussels

(7 Gulf Coast Mussel Group)

Freshwater Mussels 7 Gulf Coast Mussel Group



STATUS:	Federally listed as endangered & threatened with designated Critical Habitat	
AGENCY:	U.S. Fish and Wildlife Service (USFWS), Florida Fish and Wildlife Conservation Commission (FWC)	
FDOT DISTRICTS:	District 2 & 3	
HABITAT:	Flowing water and in a variety of freshwater river ecosystems. They require a stable substrate, such as sand, gravel, cobble, boulders, limestone, or a combination of these materials. Some have adapted to inhabit mud bottoms, banks or silty areas. Each of the seven species in this group have adapted to or prefer a specific substrate composition and flow regime.	
PRIMARY ISSUES:	Only conducted by USFWS Approved Surveyors; Section 10(a)(1)(A) Permits Required for Survey and Relocation	
SEASONAL ISSUES:	Limited Survey Period (end of April to end of November)	

Sp	Species of the 7 Gulf Coast Mussel Group		
Scientific Name	Common Name	Status	Critical Habitat Units
Amblema neislerii	Fat threeridge	Endangered	2 and 8
Lampsilis subangulata	Shinyrayed pocketbook	Endangered	2 and 9
Medionidus penicillatus	Gulf moccasinshell	Endangered	1 and 2
Medionidus simpsonianus	Ochlockonee moccasinshell	Endangered	9
Pleurobema pyriforme	Oval pigtoe	Endangered	1, 2, 9, and 11
Elliptio chipolaensis	Chipola slabshell	Threatened	2
Elliptoideus sloatianus	Purple bankclimber	Threatened	8, 9, and 10

Critical Habitat Unit Drainages: Unit 1: Econfina Creek, Unit 2: Chipola River, Unit 8: Apalachicola River, Unit 9: Upper Ochlockonee River, Unit 10: Lower Ochlockonee River, Unit 11: Santa Fe River and New River

1. CONSERVATION STATUS

Federal Status: Five of the seven mussels, including the fat threeridge (*Amblema neislerii*), shinyrayed pocketbook (*Lampsilis subangulata*), Gulf moccasinshell (*Medionidus penicillatus*), Ochlockonee moccasinshell (*Medionidus simpsonianus*), and oval pigtoe (*Pleurobema pyriforme*) are federally listed as *endangered* and the remaining two mussels, including the Chipola slabshell (*Elliptio chipolaensis*) and purple bankclimber (*Elliptoideus sloatianus*) are federally listed as *threatened* under the Endangered Species Act (ESA).

State Status: In accordance with Chapter 68A-27, five mussels are listed as federally-designated endangered and two are listed as federally-designated threatened by FWC by virtue of designation by the ESA.

Other Applicable Laws: Freshwater mussel habitat is protected by the Clean Water Act (federal) and Environmental Resource Permitting program (state). The designated critical habitat for these species is protected by the ESA. These species are also protected by Florida's Endangered and Threatened Species Rule [Chapter 68A-27, Florida Administrative Code, (F.A.C.)].

2. ECOLOGY & MANAGEMENT



Fat threeridge, Amblema neislerii

Description: A medium-large bivalve mollusk reaching a length of 4 in. Valves (shell) dark brown to black, strongly sculptured with seven to nine prominent, horizontal, parallel ridges, somewhat square in outline. **Suitable Habitat:** Main channel of small to large rivers in slow to moderate current; substrates include sand, sandy mud, gravel, and rocky rubble.













Shinyrayed pocketbook, Hamiota subangulata

Description: A medium-sized bivalve mollusk reaching a length of 3.3 in. Valves (shell) a shiny light yellowish brown with medium-wide emerald green rays (darker brown with rays obscured in some older individuals) over entire surface; smooth, roughly elliptical, and solid but fairly thin. **Suitable Habitat:** Medium-sized creeks and rivers with slow to moderate current and clean or silty sand substrates.

Gulf moccasinshell, Medionidus penicillatus

Description: A small bivalve mollusk reaching a length of 2.2 in. Valves (shell) yellowish to greenish brown with fine, often broken, green rays; mostly smooth, elongated elliptical to rhomboidal in shape, somewhat inflated (deep), with relatively thin valves with nearly straight to slightly rounded ventral margins. **Suitable Habitat:** Medium-sized creeks to large rivers with sand, muddy sand, and gravel substrates and slow to moderate currents; occasional in backwater areas with no current.

Ochlockonee moccasinshell, Medionidus simpsonianus

Description: A small bivalve mollusk reaching a length of 2.2 in. Valves (shell) light brown to yellowish green with wide, dark green rays; mostly smooth though sculptured posteriorly, slightly elongate elliptical in shape and mildly blunt posteriorly, somewhat inflated (deep), with relatively thin valves with broadly curved ventral margins. **Suitable Habitat:** Large creeks to medium-sized rivers with moderate current and substrates of sand with some gravel.

Oval pigtoe, Pleurobema pyriforme

Description: A small bivalve mollusk reaching a length of 2.4 in. Valves (shell) a plain but shiny yellowish to chestnut in color (with faint green rays in some small specimens), oval and compressed (relatively flattened) to somewhat inflated (deep), with a smooth surface marked by distinct concentric growth lines. **Suitable Habitat:** Medium-sized creeks to small rivers, usually with slow to moderate current and clean substrates of silty sand to sand-gravel mix.

Chipola slabshell, Elliptio chipolaensis

Description: A medium-sized bivalve mollusk reaching a length of 3.3 in. Valves (shell) chestnut colored, usually with one to four dark, concentric bands and dark umbos (raised areas on valves near hinge); smooth, oval to nearly elliptical, somewhat inflated (deep) though with slightly concave posterior slope. **Suitable Habitat:** Main channel of river and lower reaches of larger tributaries.

Purple bankclimber, Elliptoideus sloatianus

Description: A very large bivalve mollusk reaching a length of 8 in. Valves (shell) brownish black to black, heavy and strongly sculptured, nearly rhomboidal in shape, moderately inflated (deep). A well-developed posterior ridge extends from umbos to posterior ventral edge of shell; along and near this are several irregular ridges. **Suitable Habitat:** Small to large rivers with slow to moderate current, and substrate of sand, sometimes mixed with mud or gravel.

Florida Distribution: Panhandle, Eastern Gulf Slope – Apalachicola Region, including Leon, Wakulla, Franklin, Liberty, Gulf, Bay, Calhoun, Washington, Jackson, Gadsden, Alachua, Columbia, Union and Bradford Counties.

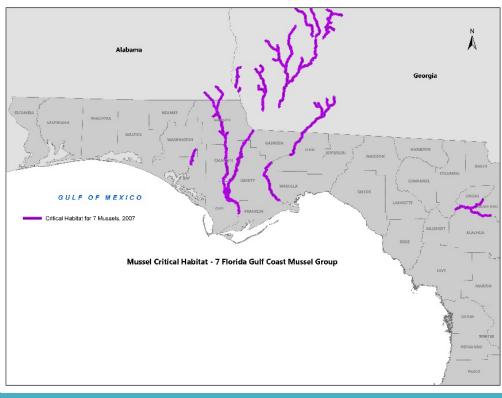
Identification of Suitable Habitat: A project that occurs in, over or within 300 feet a flowing river, stream, creek, or tributary and within the range of any of the seven listed mussels has the potential to have suitable habitat. Critical Habitat boundaries can be found at the USFWS Critical Habitat Mapping Portal, <u>USFWS Critical Habitat Mapper</u>.

Behavior and Activity to Note: Limited mobility, filter feeders. Spawning early to mid-spring.

Protection and Management Plans: The Recovery Plan for the Seven Mussels Group was published in 2003 and delineates the reasonable actions that are believed to be required to recover and/or protect these seven mussels.

Designated Protection Area or Critical Habitat: The critical habitat designated for these seven mussel species (Federal Register, Vol. 72, No. 220, Nov. 15, 2007) encompasses rivers, creeks, tributaries and streams that may harbor or otherwise support these stable populations of these species and through protection may bring Endangered or Threatened species to a point at which the measures provided under the ESA are no longer required. Critical habitat has been designated in 11 geographical areas within the Gulf Slope – Apalachicola Region of Florida. These geographical areas have been assigned Unit codes, of which Units 1, 2, 8, 10 and 11 are located within Florida.

Survey Protocol and Requirements: <u>Freshwater Mussel Survey Protocol for the Southeastern Atlantic Slope and Northeastern</u> <u>Gulf Drainages in Florida and Georgia</u>, April 2008 contains the guidelines and requirements for freshwater mussel surveys.



3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): The applicable agency for freshwater mussels is USFWS.

Federal Nexus for Consultation: Consultation with the USFWS is required for any project that is federally authorized or funded or requires a federal permit which proposes impacts to mussel habitat within the known range of the seven listed species. Consultation is required for habitat beyond the designated Critical Habitat for these species.

Type of Consultation: Informal and formal consultations are applicable for the seven mussels group based on the level of proposed impacts to the species or its Critical Habitat. Determination of the level of consultation required can be determined through the use of the "Freshwater Mussel Phase 1 Programmatic Approach (PA) for Transportation Work Activities" as amended May 1, 2018. A Phase II programmatic approach is proposed of projects that reach a *May Affect* and *May Affect Likely to Adversely Affect* determination. However, prior to that implementation of the Phase II PA a standard formal consultation is required.

Demonstrate Avoidance, Minimization, and Mitigation: FDOT must demonstrate to the USFWS that it is making every available effort to avoid and/or minimize the impacts to these species and their habitat for all proposed projects. The Phase 1 PA provides detailed effects to the species from erosion and sedimentation, contaminant discharge, physical changes to streams and loss of stream connectivity. In addition, the PA also provides conservation measures for the species and their habitat.

Standard Provisions, or Standard Protection Measures: Phase I of the PA contains conservation measures for these species as well as construction methods that result in a *not likely to adversely affect* (NLAA) determination.

General Timeframes for Consultation and Permitting: Timeframes may depend on the complexity of the project, though would follow the standard USFWS procedures. Early coordination is essential to limit prolonged review times.

4. PERMITTING

Prohibited Activities: Activities that can impact these species or their habitat (dredging, filling, water quality degradation, equipment or materials (piles)) are prohibited without prior project approval. There is no mussel specific permit for potential impacts, however approval for impacts is obtained through the consultation process and included as part of the State ERP and USACE permits for each project.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in Project Suite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review all Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to listed freshwater mussels and Critical Habitat. Make sure construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one-year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>

6. TIPS

Tips: The seven mussel species are especially vulnerable as they are found in shallow shoals or riffles in restricted stream and river segments and are relatively immobile.

Seasonal Restrictions: Survey and relocation period is the end of April to end of November with flexibility based on unseasonable conditions and gravidity. Construction restrictions may be implemented outside of the survey period.

Survey Restrictions: Section 10(a)(1)(A) Permits Required for Survey and Relocation.

7. **RESOURCES**

Web Resources*

- Florida's Natural Inventory- Field Guide (Description and Photos) <u>https://www.fnai.org/species-communities/species-guides/field-guides-main</u>
- Seven Mussel Group Recovery Plan https://www.fws.gov/panamacity/resources/7 Mussel Recovery Plan Sep 2003.pdf
- USFWS Critical Habitat Mapper Critical Habitat Online Mapper (ESRI)

Lead Specialist(s) for Agencies: Amber Rhodes (772) 268-7169, <u>Amber Rhodes@fws.gov</u>; Freshwater Mussel Recovery Coordinator: Sandra Pursifull, 1601 Balboa Avenue, Panama City, FL 32405. (850) 347-1433. <u>Sandra Pursifull@fws.gov</u>; Freshwater Mussel Reviewer: Maureen Walsh, (850) 630-1734, <u>Maureen Walsh@fws.gov</u>

Publications: USFWS. 2003. Recovery Plan for Endangered Fat Threeridge, Shinyrayed Pocketbook, Gulf Moccasinshell, Ochlockonee Moccasinshell, and Oval Pigtoe; and Threatened Chipola Slabshell, and Purple Bankclimber. Atlanta, Georgia. 142 pp.

Carlson, S., A. Lawrence, H. Blalock-Herod, K. McCafferty, and S. Abbott. 2008. *Freshwater mussel survey protocol for the southeastern Atlantic slope and northeastern Gulf drainages in Florida & Georgia*. USFWS, Ecological Services and Fisheries Resources Offices. Georgia Department of Transportation, Office of Environment and Location.

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APPENDIX 2v

Freshwater Mussels

(8 Gulf Coast Mussel Group)

Freshwater Mussels 7 Southeastern Atlantic Slope Mussel Group



STATUS:	Federally Listed, endangered & threatened with Designated Critical Habitat	
AGENCY:	U.S. Fish and Wildlife Service (USFWS), Florida Fish and Wildlife Conservation Commission (FWC)	
FDOT DISTRICTS:	District 3	
HABITAT:	Require flowing water and inhabit a variety of river ecosystems. These species require a stable substrate, such as sand, gravel, cobble, boulders, limestone, or a combination of these materials. Some also inhabit mud bottoms, banks or silty areas.	
PRIMARY ISSUES:	Survey only conducted by USFWS Approved Surveyors; Section 10(a)(1)(A) Permits Required for Survey and Relocation	
SEASONAL ISSUES:	Limited Survey Period (end of April to end of November)	

Scientific Name	Common Name	Status	Critical Habitat Units
Fusconaia rotulata	Round ebonyshell	Endangered	GCM 1
Ptychobranchus jonesi	Southern kidneyshell	Endangered	GCM 1, 3, 4, 6, 7
Villosa choctawensis	Choctaw bean	Endangered	GCM 1,3, 4, 5, 6, 7
Fusconaia burkei	Tapered pigtoe	Threatened	GCM 6, 7
Fusconaia escambia	Narrow pigtoe	Threatened	GCM 1, 2, 3, 4, 5
Hamiota australis	Southern sandshell	Threatened	GCM 1, 3, 4, 5, 6, 7
Pleurobema strodeanum	Fuzzy pigtoe	Threatened	GCM 1, 3, 4, 5, 6, 7

Critical Habitat Unit Drainages: GCM 1: Lower Escambia River; GCM 2: Point A Lake and Gantt Lake Reservoirs; GCM 3: Patsaliga Creek; GCM 4: Upper Escambia River; GCM 5: Yellow River; GCM 6: Choctawhatchee River and Lower Pea River; GCM 7: Upper Pea River; AP 1: Big Flat Creek; AP 2: Burnt Creek, Murder Creek and Sepulga River

1. CONSERVATION STATUS

Federal Status: Three Florida mussels, including the round ebonyshell (*Fusconaia rotulata*), southern kidneyshell (*Ptychobranchus jonesi*), and choctaw bean (*Villosa choctawensis*) are federally listed as *endangered* and the remaining four Florida mussels, including the tapered pigtoe (*Fusconaia burkei*), narrow pigtoe (*Fusconaia escambia*), southern sandshell (*Hamiota australis*), and fuzzy pigtoe (*Pleurobema strodeanum*) are federally listed as *threatened* under the Endangered Species Act (ESA).

State Status: In accordance with Chapter 68A-27, three are listed as Federally-designated *endangered* and four are listed as Federally-designated *threatened* by FWC by virtue of designation by the ESA.

Other Applicable Laws: Freshwater mussel habitat is protected by the Clean Water Act (federal) and Environmental Resource Permitting program (state). The designated Critical Habitat for these species is protected by the ESA.

2. ECOLOGY & MANAGEMENT



Round ebonyshell, Fusconaia rotulata

Description: A small to medium-sized mussel that attains a maximum length of 24 in. The shell is thick, heavy, inflated, and circular in outline. There is no posterior ridge, but often two slight folds are present. The periostracum is dark brown to black. **Suitable Habitat:** Main channel of large rivers, with a moderate current velocity with substrates consisting of sand and gravel. Occasionally occurring in areas with a muddy substrate.











Southern kidneyshell, Ptychobranchus jonesi

Description: A small to medium-sized mussel that attains a maximum length of 25.6 in. It has a moderately thick, elliptical shell with the dorsal and ventral margins nearly parallel. The shell is very inflated with prominent biangulation on the posterior end. The periostracum is smooth, olive green to blackish in color, sometimes with irregularly distributed green rays. Suitable Habitat: Medium-sized creeks to rivers in silty sand substrates with slow current and woody debris. It has also been located in claystone pockets with sand.

Choctaw bean, Villosa choctawensis

Description: A small mussel with a moderately thick shell that obtains a maximum length of 19.2 in. The shell is somewhat inflated, ovate in outline, with rounded anterior and posterior margins. Sexual dimorphism is present, in that females may be somewhat more broadly rounded posteriorly. The posterior ridge is low and rounded. The umbo is broad and full, extending little, if any, above hinge line and positioned well anterior of center. The periostracum is shiny and smooth. External shell color is chestnut to dark brown or black, with variable fine, green rays, which may be obscure in older specimens. Suitable Habitat: Large creeks and rivers with moderate current over sand to silty-sand substrates.

Tapered pigtoe, Fusconaia burkei

Description: A small mussel that attains a maximum length of 23.6 in. The shell is inflated and subelliptical in outline. The anterior margin is broadly rounded, and the posterior margin is narrowly pointed. The posterior ridge is well defined with radial ridges on the posterior slope. Chevron-shaped ridges cover much of the disk. Shell sculpture may be indistinct in some specimens. The periostracum is brown or greenish-yellow in young specimens but becomes dark brown to black in adults. Suitable Habitat: Medium-sized creeks to large rivers in stable sand or sand and gravel substrata, occasionally occurring in silty sand in slow to moderate current

Narrow pigtoe, Fusconaia Escambia

Description: A small to medium-sized mussel attaining a maximum length of 29 in. The shell is moderately thick, subcircular, slightly inflated, and has a well-defined posterior ridge. The periostracum is smooth and juveniles are chestnut brown in color. Older individuals become darker brown to blackish in color. Suitable Habitat: Channels of small to medium-sized streams in sand, silty sand, or gravel and in muddy sand in slight current. It may also occur in smaller streams.





Southern sandshell, Hamiota australis

Description: A small to medium-sized mussel that attains a maximum length of 32.6 in. The southern sandshell has a long, elliptical, somewhat pointed shell with moderate inflation. Shell thickness is moderate. Externally, the shell of young specimens is yellowish with green rays and in adults is typically dark brown to black with obscured rays. Sexual dimorphism is present as a slight rounding of the ventral shell margin of females. Suitable Habitat: Clear medium-sized creeks to rivers with slow to moderate current and sandy substrates.

Fuzzy pigtoe, Pleurobema strodeanum

Description: a small mussel that attains a maximum length of 22.8 in. The shell is moderately thick, subtriangular in outline, with a rounded anterior margin and a bluntly pointed posterior margin. The posterior ridge is poorly defined, and the posterior slope is slightly concave. Externally, the periostracum is cloth-like, and varies in color from dark olive to brown to almost black. Suitable Habitat: medium-sized creeks and rivers, in sand and silty sand substrates with slow to moderate current.

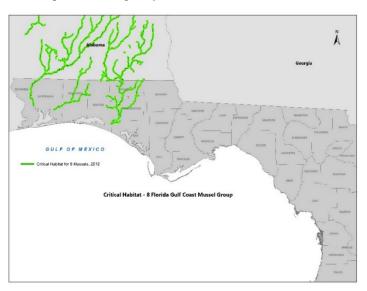
Florida Distribution: Western Panhandle, East Gulf Plain Physiographic Region - Choctawhatchee-Escambia Drainage, including Escambia, Santa Rosa, Okaloosa, Walton, Holmes, Washington, Bay and Jackson Counties.

Protection and Management Plans: There is no recovery plan for these species. Managed by the USFWS.

Designation Protection Area or Critical Habitat: The Critical Habitat designated for these eight mussel species (Fed. Register, Vol. 77, No. 196, Oct. 10, 2012) encompasses rivers, creeks, tributaries and streams that may harbor or support stable populations and through protection may bring *Endangered* or *Threatened* species to a point at which the measures provided are no longer required. Critical Habitat has been designated in nine geographical areas within the East Gulf Plain Region.

Behavior and Activity to Note: Limited mobility, filter feeders. Spawning early to mid-spring.

Identification of Suitable Habitat: A project that occurs in, over or within 300 feet of a flowing river, stream, creek, or tributary and occurs within the assumed range of any of the eight listed mussels has the potential to have suitable habitat. Critical Habitat boundaries for these species can be found using the <u>USFWS Critical Habitat Mapper</u>.



Survey Protocol and Requirements: <u>Freshwater Mussel Survey Protocol for the Southeastern Atlantic Slope and Northeastern Gulf</u> <u>Drainages in Florida and Georgia</u>, contains the guidelines and requirements for mussel surveys.

3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): The applicable agency for freshwater mussels is USFWS.

Federal Nexus for Consultation: Consultation with the USFWS is required for any project that is authorized, funded, or requires a federal permit which proposes impacts to freshwater mussel habitat within the known range of the eight listed mussel species. Consultation (informal or formal) is required for habitat impacts beyond the designated Critical Habitat.

Type of Consultation: Informal and formal consultations are applicable for the eight mussels group based on the type of work proposed. Determination of the level of consultation required can be determined through the use of the "Freshwater Mussel Phase 1 Programmatic Approach (PA) for Transportation Work Activities" as amended May 1, 2018. A Phase II programmatic approach is proposed of projects that reach a *May Affect* and *May Affect Likely to Adversely Affect* determination. However, prior to that implementation of the Phase II Programmatic Agreement (PA) a standard formal consultation is required (See Appendix on Programmatic Agreements).

Demonstrate Avoidance, Minimization, and Mitigation: FDOT must demonstrate that it is making every available effort to avoid and/or minimize the impacts to these species and their habitat for all proposed projects. The Phase 1 Programmatic Approach provides detailed effects to the species from erosion and sedimentation, contaminant discharge, physical changes to streams and loss of stream connectivity. In addition, the Programmatic Approach also provides conservation measures for the species and their habitat.

Special Provisions, or Standard Protection Measures: Phase I of the programmatic approach contains conservation measures, as well as construction methods that result in a *not likely to adversely affect* (NLAA) determination.

General Timeframes for Permitting: Timeframes may depend on the complexity of the project, though would follow the standard USFWS procedures. Early coordination is essential to limit prolonged review times.

4. PERMITTING

Prohibited Activities: Activities that can impact these species or their habitat (dredging, filling, water quality degradation, equipment, or materials (piles)) are prohibited without prior project approval. There is no mussel specific permit for potential impacts, however approval for impacts is obtained through the consultation process and included as part of the State ERP and USACE permits for each project.

Exemptions: There are transportation related activities that are exempt from federal and state permitting, however there are no activities that are exempt from informal and/or formal consultation with USFWS regarding freshwater mussels. However, the Phase I Programmatic Approach indicates activities that would result in an NLAA effects determination which would reduce the federal and state review for the project.

Activities Authorized by Permit: Project activities are approved under the federal and state permitting programs. If impacts are proposed to mussel species or their habitat, it would be addressed through a Biological Opinion (BO).

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordination with the Project Manager and add to the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review all Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to mussels and Critical Habitat. Make sure that construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: Factors that USFWS will be evaluating include changes and fluctuation in river flow regimes, scouring and erosion, reduced dissolved oxygen levels and altered water temperatures, and changes in resident fish assemblages.

Seasonal Restrictions: Survey and relocation period from end of April to end of November, with flexibility based on unseasonable conditions and gravidity. Construction restrictions may also be implemented outside of the survey period.

Survey Restrictions: Section 10(a)(1)(A) Permits Required for Survey and Relocation.

7. **RESOURCES**

Web Resources*

• USFWS Critical Habitat Mapper - Critical Habitat Online Mapper (ESRI)

Lead Specialist(s) for Agencies: FDOT Liaison: Amber Rhodes (772) 268-7169, <u>Amber_Rhodes@fws.gov</u>; Freshwater Mussel Recovery Coordinator: Sandra Pursifull, 1601 Balboa Avenue, Panama City, FL 32405. (850) 347-1433. <u>Sandra_Pursifull@fws.gov</u>; Freshwater Mussel Reviewer: Maureen Walsh, (850) 630-1734, <u>Maureen_Walsh@fws.gov</u>

Publications: Carlson, S., A. Lawrence, H. Blalock-Herod, K. McCafferty, & S. Abbott. 2008. *Freshwater mussel survey protocol for the southeastern Atlantic slope and northeastern Gulf drainages in Florida & Georgia*. USFWS, Ecological Services and Fisheries Resources Offices. Georgia Department of Transportation, Office of Environment and Location.

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APPENDIX 2v Suwannee Moccasinshell

Suwannee Moccasinshell





STATUS:	Federal, Threatened	
AGENCY:	U.S. Fish and Wildlife Service (USFWS), Florida Fish and Wildlife Conservation Commission (FWC)	
FDOT DISTRICTS:	District 2	
HABITAT:	The Suwannee moccasinshell occurs only in the Suwannee River Basin. This species is generally found in substrates of muddy sand or sand with some gravel, and in areas with slow to moderate river current.	
PRIMARY ISSUES:	Survey can only be conducted by USFWS Approved Surveyors; Section 10(a)(1)(A) Permits Required for Survey and Relocation	
SEASONAL ISSUES:	Limited Survey Period (end of April to end of November)	

1. CONSERVATION STATUS

Federal Status: The Suwannee moccasinshell is listed as threatened under the Endangered Species Act (ESA).

State Status: In accordance with Chapter 68A-27, Florida Administrative Code (F.A.C.), the Suwannee moccasinshell is state listed as *threatened* pursuant to the ESA federal designation.

Other Applicable Laws: This species is also protected by Florida's Endangered and Threatened Species Rule, Chapter 68A-27, F.A.C. The Clean Water Act and state Environmental Resource Permitting rules that protect freshwater systems which may be inhabited by the Suwannee moccasinshell.

2. ECOLOGY & MANAGEMENT

Description: The Suwannee moccasinshell is a small mussel that rarely exceeds 2 inches in length. Its shell is oval in shape and sculptured with corrugations extending along the posterior ridge, although the corrugations are sometimes faint. The shell exterior is greenish yellow to brown with green rays of varying width and intensity in young individuals, and olive brown to brownish black with rays often obscured in mature mussels. The sexes can be distinguished, with female shells being smaller and longer than the males.

Florida Distribution: This species is endemic to the Suwannee River Basin. Its historical range includes the lower and middle Suwannee River main stem, and portions of the New, Santa Fe and Withlacoochee Rivers. Current distribution of the Suwannee moccasinshell includes the lower and middle Suwannee River main stem within Dixie, Gilchrist, Lafayette, Madison and Suwannee Counties; and the Santa Fe River downstream of the rise, within Alachua, Columbia, Gilchrist and Suwannee Counties.

Suitable Habitat: The Suwannee moccasinshell typically inhabits larger streams where it is found in substrates of muddy sand or sand with some gravel, and in areas with slow to moderate current. It is most often found in mid-channel habitats in coarser sediments, however based on stream conditions in areas that still support the species, suitable Suwannee moccasinshell habitat appears to include clear stream reaches along bank margins with a moderate slope and stable sand substrates, where flow is moderate and slightly depositional conditions exist. The species is also associated with large woody material, and individuals are often found near embedded logs.

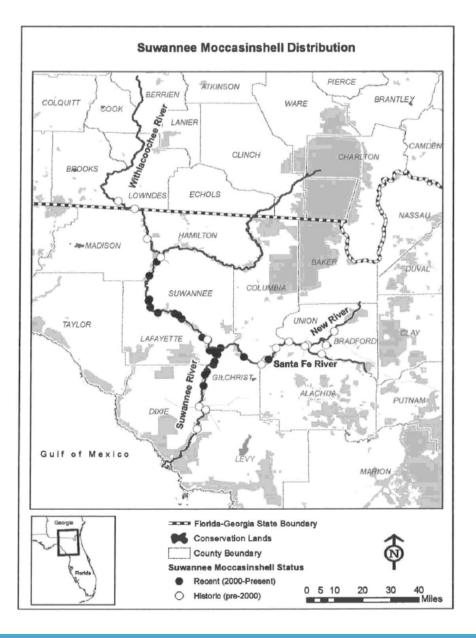
Identification of Suitable Habitat: A project that occurs in, over or within 300-feet of a flowing river or stream within the current distribution of this species has the potential to have suitable habitat.

Behavior and Activity to Note: The Suwannee moccasinshell has limited mobility and is a filter feeder. Females have been found gravid from October to May. Reproduction in freshwater mussels is unique in that they require specific fish species to serve as hosts for their larvae.

Protection and Management Plans: There is no recovery plan for this species.

Designated Protection Area or Critical Habitat: Critical Habitat has not been designated for this species.

Survey Protocol and Requirements: <u>Freshwater Mussel Survey Protocol for the Southeastern Atlantic Slope and Northeastern</u> <u>Gulf Drainages in Florida and Georgia</u>, April 2008, contains the guidelines and requirements for freshwater mussel surveys.



3. AGENCY CONSULTATION (FEDERAL)

Responsible Agency(s): The Suwannee moccasinshell is directly protected by provisions of the ESA under USFWS jurisdiction.

Federal Nexus for Consultation: Consultation with the USFWS is required for any project that is federally authorized or funded, or requires a federal permit which proposes impacts to freshwater mussel habitat within the known range of this species.

Type of Consultation: Informal and formal consultations are applicable for this species based on the type of work proposed. Determination of the level of consultation required can be determined through the use of the <u>Freshwater Mussel Phase I Programmatic</u> <u>Approach (PA) for Transportation Work Activities</u> as amended May 1, 2018. A Phase II PA is proposed of projects that reach a *May* <u>Affect and May Affect Likely to Adversely Affect</u> determination. However, prior to that implementation of the Phase II PA a standard formal consultation is required.

Demonstrate Avoidance, Minimization, and Mitigation: FDOT must demonstrate to the USFWS that it is making every available effort to avoid and/or minimize the impacts to this species and its habitat for all proposed projects. The Phase I Programmatic Agreement (PA) provides detailed effects to the species from erosion and sedimentation, contaminant discharge, physical changes to streams and loss of stream connectivity. In addition, the PA (See Appendix on Programmatic Agreements) also provides conservation measures for the species and its habitat.

Special Provisions, or Standard Protection Measures: No special provisions or standard protection measures; however, see existing freshwater mussel PA.

General Timeframes for Consultation and Permitting: Timeframes may depend on the complexity of the project, though would follow the standard USFWS procedures. Early coordination is essential to limit prolonged review times.

4. PERMITTING

Prohibited Activities: Activities that can impact these species or their habitat [dredging, filling, water quality degradation, equipment, or materials (piles)] are prohibited without prior project approval. There is no mussel specific permit for potential impacts, however approval for impacts is obtained through the consultation process and included as part of the State Environmental Resources Permit (ERP) and United States Army Corps of Engineers (USACE) permits for each project.

Exemptions: There are transportation related activities that are exempt from federal and state permitting; however, there are no activities that are exempt from informal and/or formal consultation with USFWS regarding freshwater mussels. The Phase I PA lists activities that would result in a *not likely to adversely affect* (NLAA) effects determination, reducing the federal and state review for the project.

Activities Authorized by Permit: Project activities are approved under the federal and state permitting programs. However, if an adverse effect determination is made for the Suwannee moccasinshell, it would be addressed through a Biological Opinion (BO) issued by USFWS.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Commitments can be found within the Environmental Commitment Module in ProjectSuite Enterprise Edition (PSEE). If additional commitments are identified during design or permitting, coordinate with the Project Manager and enter into the Environmental Commitment Module. The Design Project Manager will share the Project Commitment Record with Construction.

Review of Environmental Permits for Special Conditions: Review all environmental permits for Special Conditions related to the Suwannee moccasinshell. Make sure construction personnel have copies.

Prior to Construction: Advise personnel that penalties for convictions for violations of these laws range from a maximum of \$500 and/or 60 days imprisonment for first offenses of misdemeanor crimes or up to \$50,000 and/or one year imprisonment for criminal violations against the federal Endangered Species Act. To learn more read *Laws that Protect Florida's Wildlife*, <u>https://original-ufdc.uflib.ufl.edu/IR00000987/00001</u>.

6. TIPS

Tips: Currently, nearly the entire population of Suwannee moccasinshell resides in the middle and lower reach of the Suwannee River main channel.

Seasonal Restrictions: Survey and relocation period is the end of April to end of November, with some flexibility based on unseasonable conditions and gravidity. Construction restrictions may also be implemented outside of the survey period.

Survey Restrictions: Section 10(a)(1)(A) Permits Required for Survey and Relocation.

7. **RESOURCES**

Web Resources*

Endangered Species Consultation Handbook https://www.fws.gov/media/endangered-species-consultation-handbook

- Freshwater Mussel Phase I Programmatic Approach (PA) for Transportation Work Activities (March 8, 2017): <u>https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/protected-species/revised-mussel-pa-with-amendment.pdf?sfvrsn=30e49f7e_1
 </u>
- Freshwater Mussel Survey Protocol for the Southeastern Atlantic Slope and Northeastern Gulf Drainages in Florida and Georgia, April 2008 https://www.fws.gov/sites/default/files/documents/Final-Mussel-Survey-Protocol-FL-GA-April-2008.pdf
- USFWS Panama City Field Office- Listed Species Home Page
 <u>https://www.fws.gov/office/panama-city-fish-and-wildlife-conservation/species</u>

Lead Specialist(s) for Agencies:

FDOT Liaison: Amber Rhodes (772) 268-7169, <u>Amber Rhodes@fws.gov</u>; Freshwater Mussel Recovery Coordinator: Sandra Pursifull, 1601 Balboa Avenue, Panama City, FL 32405. (850) 347-1433, <u>Sandra_Pursifull@fws.gov</u>; Freshwater Mussel Reviewer: Maureen Walsh (850) 630-1734, <u>Maureen Walsh@fws.gov</u>

Publications:

 Johnson NA, McLeod JM, Holcomb J, Rowe M, Williams JD (2016) Early life history and spatiotemporal changes in distribution of the rediscovered Suwannee moccasinshell, *Medionidus walkeri* (Bivalvia: Unionidae). Endang Species Res 31:163-175. <u>https://doi.org/10.3354/esr00752</u>

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.



PHOTO – USFWS, <u>https://www.fws.gov/press-release/2021-06/us-fish-and-wildlife-service-designates-critical-habitat-freshwater-mussel</u>

APPENDIX 2w Panama City Crayfish

Panama City Crayfish Procambarus econfinae



STATUS:	Federally listed, Threatened
AGENCY:	U.S. Fish & Wildlife Service (USFWS)
FDOT DISTRICTS:	District 3
HABITAT:	Wet and flooded pine flatwoods and adjacent drainage ditches
PRIMARY ISSUES:	Use of the USFWS and FDOT Programmatic Biological Opinion
SEASONAL ISSUES:	No seasonal restrictions

1. CONSERVATION STATUS

Federal Status: Listed as threatened on February 5, 2022 (87 FR 546) under section 4(d) of the Endangered Species Act (ESA) of 1973.

State Status: Receives protection from the State as a threatened species under Rule 68A-27.003, Florida Administrative Code (F.A.C.). Take is defined in Rule 68A-27.001, F.A.C.

What other laws may apply? Section 404 of the Clean Water Act and Environmental Resource Permitting (ERP) program.

2. HABITAT

Description: Small crayfish up to two inches in length (body length minus claws). This species has a brown body with a deep brown to black stripe and a light brown to tan stripe that stretches from the head to its tail. The sides of the cephalothorax (the head and chest) are tan with reddish-brown spots.

Florida Distribution: Restricted to Bay County, Northwest Florida, where there are nine known populations located within FDOT District 3.

Behavior and Activity to Note: The life history of Panama City crayfish is not well known. Presence above ground is based on high water events. In times of drought, this crayfish borrows into soil to reach the water table. Soils within Bay County that provide long hydroperiod wetlands that are ideal substrate for burrow construction are categorized as "core" or "secondary" soils and are used to identify suitable habitat. Core soils provide the best substrate to support the species; secondary soils are less ideal but still used. In addition to the presence of suitable soils, freshwater herbaceous vegetation is required for food and shelter.

Suitable Habitat: Historically, the crayfish was found in natural temporary bodies of shallow freshwater located in pine flatwoods and prairie-marsh systems. However, development has altered these communities and the crayfish can now be found in sloped grassy ditches and swales, and utility rights-of-way. This species is associated with shallow or fluctuating water levels open to the sun with herbaceous vegetation.

How to know if you have suitable habitat? Preference for vegetative herbaceous wetlands so long as the wetlands have < 50% closed canopy. In addition, hydric soils (core soils) are a key determinant of presence. Note that the Programmatic Approach only requires that FDOT identify that the project occurs within Panama City Crayfish range.

Protection and Management Plan: Habitat fragmentation makes this crayfish vulnerable to local extirpations. Other threats include direct mortality due to roadside ditch maintenance and dredging, infrastructure development, soil-disturbing practices, pesticides, and herbicides. The USFWS has created a recovery plan under section 4(f) of the ESA.

Designated Protection Area or Critical Habitat: Yes, Critical Habitat of 4,138 acres (87 FR 546 581) has been created within Bay County.

3. PERMITTING

Programmatic Approach covers land clearing, repaving of existing roads, construction of new paved areas (roads, multiuse paths, sidewalks, and trails, creation of drainage features, ditches, swales, culvert crossings), landscaping improvements, maintenance activities, and any other improvements required to maintain the integrity of the roadway system for the traveling public. Emergency flood control actions within FDOT's ROW are also considered.

4. AGENCY CONSULTATION

Who is the responsible agency(s) for this species? The USFWS and FWC share responsibility; however, the USFWS is the lead agency for the purpose of permitting. A Partners Agreement between FWC and the USFWS solidifies commitments by both agencies to jointly provide oversight of land management, acquisition, species monitoring, and translocations as needed to maintain and improve the species' status.

Federal Nexus for consultation? The Programmatic Biological Opinion covers FDOT's projects and eliminates consultation for any project that meet its requirements within the Panama City Crayfish range. The Approach specifics are to be followed. Note that FDOT is to notify USFWS and FWC six months in advance of construction projects to allow for adequate time for those agencies to conduct a relocation of crayfish should they desire.

Type of Consultation: Consultation covered through the Approach of the Programmatic Biological Opinion.

Demonstrate Avoidance, Minimization, and Mitigation/Commitments: In 2022, FDOT and USFWS completed a Programmatic Biological Opinion for incidental take for the State Highway System (SHS) within Bay County for the Panama City Crayfish. This includes all current, proposed, and future right-of-way needs for any roadway action. Within the Programmatic Biological Opinion, direct and indirect impacts are defined as transportation improvements to and construction of SHS facilities; roadway maintenance activities; safety improvements; traffic improvements; drainage improvements, including storm water management facilities; and all other actions needed by FDOT as part of the normal operations of the SHS. In exchange, FDOT provides species mitigation funds to the USFWS for an endowment. The interest from the endowment supports management and habitat acquisition efforts for the Panama City Crayfish. Conservation measures, terms, and conditions are included as part of the <u>Programmatic Approach</u>.

Existing Standard Provisions? No, standard provisions.

Federal or State Species Effects Determination Keys: No Effect Determination Key; however, a Programmatic Approach is provided including conservation measures, commitments, and terms and conditions are required.

Design Plan Notes: Project specific notes can be added to ensure compliance with Programmatic Approach.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Prior to the commencement of construction, advise personnel to review conservation measures related to the Panama City Crayfish outlined within the Programmatic Approach. These actions serve to minimize or compensate for project effects on the Panama City Crayfish. Be certain that the condition(s) is strictly followed.

6. **RESOURCES**

U.S. Fish and Wildlife Service. 2022. A Programmatic Approach for Florida Department of Transportation Activities within Panama City Crayfish Habitat, Bay County, Florida. Programmatic Biological Opinion FINAL. FWS Log No. 2202-0052983.

SPECIALTY PERMITS

APPENDIX 3a Programmatic Agreements

Programmatic Agreements

Tools for Permit Streamlining



FDOT DISTRICTS: All Districts and the Florida Turnpike Enterprise

SUMMARY: Programmatic Agreements are legal documents that establish a streamlined process for handling routine environmental or historic heritage requirements for commonly encountered project types. They establish a process for consultation, review, and compliance with one or more federal laws.

1. OVERVIEW OF PROGRAMMATIC AGREEMENTS

Programmatic Agreement: A Programmatic Agreement (PA) is a document that lays out the terms of a formal, legally binding agreement between the Florida Department of Transportation (FDOT) and other state and/or federal agencies. The purpose of the PA is to establish a process for consultation, review, and compliance with one or more federal laws. PAs facilitate repetitive work to be handled on a program basis rather than on a project-by-project basis. PAs for natural resources typically involve the streamlining of environmental review through a process that allows for all parties to meet their compliance responsibilities for an agency program, a category of projects, a particular type of resource, and/or frequently encountered effects.

Compliance with an Environmental or Cultural Resource Law:

- <u>Section 7 Endangered Species Act (ESA) Compliance</u>: Compliance with Section 7 of the Endangered Species Act (ESA) can be accomplished through the use of programmatic consultations, resulting in the development of programmatic biological assessments, and programmatic biological opinions (BO) prepared by either U.S. Fish and Wildlife Service (USFWS) and/or the National Marine Fisheries Service (NMFS). The FDOT, USFWS, and NMFS use programmatic assessments and BOs as guidance documents for future projects with frequent, routine activities with predictable outcomes. When one of these projects is initiated, the agencies use these programmatic consultations to expedite and simplify Section 7 compliance, as opposed to completing a separate, Formal Section 7 ESA consultation.
- <u>Section 106 Compliance</u>: In the context of Section 106 of the National Historic Preservation Act (NHPA), a PA differs from a Memorandum of Agreement (MOA) in that MOAs are used most often to resolve or conclude the Section 106 process for individual, federal undertakings where the project has specific and definable adverse effects on historic properties. Typically, PAs are used to outline or tailor how the Section 106 process will be implemented and followed for a historic preservation compliance program or components of these programs such as outlined in the Advisory Council for Historic Preservation Guidance (36 CFR 800.14(b)(1):
 - I. When effects on historic properties are similar and repetitive or are multi-State or regional in scope;
 - II. When effects on historic properties cannot be fully determined prior to approval of an undertaking;
 - III. When non-federal parties are delegated major decision-making responsibilities;
 - IV. Where routine management activities are undertaken at Federal installations, facilities, or other land-management units; or
 - V. Where other circumstances warrant a departure from the normal Section 106 process.

2. LIST OF PROGRAMMATIC AGREEMENTS

JaxBO Programmatic Agreement: This is a Programmatic Biological Opinion (PBO) between USACE and NMFS, which allows for the streamlining of the Section 7 ESA consultation process during federal permitting for groups of frequently occurring activities and Federal action agency policies, plans, programs that have well-understood effects on listed species and designated habitat including Johnson's Seagrass and its Critical Habitat. The JaxBO provides a tool to address consultation for ten categories of "inwater" activities including: (1) Shoreline Stabilization; (2) Pile-supported Structures and Anchored Buoys; (3) Maintenance, Minor, and Muck Dredging; (4) Water-Management Outfall Structures and Associated Endwalls; (5) Scientific Survey Devices; (6) Boat Ramps; (7) Aquatic Habitat Enhancement, Establishment, and Restoration Activities; (8) Transmission and Utility Lines; (9) Marine Debris Removal; and, (10) Temporary Platforms, Fill, and Cofferdams. To learn more, go to:

http://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/.

Freshwater Mussel Programmatic Agreement, Phase I: This is a procedural PA developed in partnership between FDOT, Florida Fish and Wildlife Conservation Commission (FWC) and USFWS, with participation from the Federal Highway Administration

(FHWA) and the U.S. Army Corps pf Engineers (USACE). The PA covers all fifteen species of federally protected mussels and their designated critical habitat (See separate appendix on Mussels). The purpose of the PA is to provide a clear, consistent, and predictable approach for complying with the requirements under the Endangered Species Act of 1973 (ESA), as amended (16 U.S.C. 1531 et. seq.). The Phase I PA focuses on FDOT actions that the participating agencies mutually agree will have either "*no effect*" (NE) on mussels or "*may affect, but not likely to adversely affect*" (MANLAA) mussels with incorporation of conservation measures. It also identifies actions that "*may affect*" (MA) mussels but will require further coordination with the USFWS. A Phase II PA is planned at a later time to address actions that MA mussels, including formal consultation for projects that are "*likely to adversely affect*" (MALAA) mussels. To learn more, go to:

https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/revised-mussel-pa-withamendment.pdf?sfvrsn=5f9986a0_0_

Section 106 Programmatic Agreement: This is a procedural PA among FHWA, the Advisory Council of Historic Preservation (ACHP), the Florida Division of Historic Preservation (DHP), the Florida Division of Historical Resources (DHR), State Historic Preservation Officer (SHPO), and FDOT regarding the implementation of the Federal-Aid Highway Program in Florida. The objective of this PA is to increase the efficiency of the FHWA and FDOT reviews of individual undertakings that may affect historic properties and to establish the process by which FDOT, FHWA, the ACHP, the SHPO, and other consulting parties will be involved in any such reviews. Through this PA, FHWA delegates to FDOT certain decision-making tasks under the Section 106 process for the Federal-Aid Highway Program. These tasks include:

- 1. Establish whether there is an undertaking with the potential to affect historic properties;
- 2. Identify the consulting parties for each undertaking;
- 3. Inform FHWA when there are historic resources that may be of cultural and religious significance to the Tribes;
- 4. Seek public comment for individual project actions, and conduct public involvement activities;
- 5. Establish the Area of Potential Effect (APE) of an undertaking in coordination with SHPO/Tribal Historic Preservation Officer (THPO);
- 6. Determine the appropriate level of effort through the project internal review and screening process, and in accordance with the Agency Operating Agreement (AOA) and the provisions of this Agreement;
- 7. Identify historic resources located within the project APE in coordination with SHPO/THPO, other consulting parties, and Tribes;
- 8. Evaluate the NRHP eligibility of all historic resources identified within the project APE, in coordination with SHPO/THPO;
- 9. Apply the Criteria of Adverse Effect in historic properties as per $36 C.F.R. 800.5\beta$ in coordination with SHPO/THPO, Tribes and other consulting parties;
- 10. Initiate consultation on the resolution of adverse effects as per 36 C.F. R 800.6 β with FHWA and appropriate consulting parties exclusive of the Tribes;
- 11. Consult, as appropriate, regarding the determination of the project APE, the evaluation of NRHP eligibility, and the effects of a Program undertaking on historic properties;
- 12. Coordinate Section 106 review with other relevant project reviews, such as the National Environmental Policy Act; and
- 13. Document individual undertakings and maintain a record of all project reviews carried out pursuant to the Agreement;

To learn more, go to:

 $\label{eq:https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/section-106-pa-executed-version-1-via-email-15mar16-(3).pdf?sfvrsn=a145ca30_2$

3. **RESOURCES**

Web Resources*

- Amendment to the Freshwater Mussel Phase 1 Programmatic Approach for Transportation Work Activities
 <u>https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/revised-mussel-pa-with-amendment.pdf?sfvrsn=5f9986a0_0</u>
- Center for Environmental Excellence by AASHTO Programmatic Agreements
 <u>https://environment.transportation.org/documents/programmatic_agreement_toolkit/WhatIsPA.html</u>
- FDOT, Environmental Management, Publications https://www.fdot.gov/environment/publications.shtm

- Section 106 Programmatic Agreement <u>https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/section-106-pa-executed-version-</u> <u>1-via-email-15mar16-(3).pdf?sfvrsn=a145ca30_2</u>
- Roadmap for Developing and Implementing Programmatic Agreements
 <u>file:///V:/2158/active/215810408/TWO%206%20Permitting%20Handbook/Permit%20Handbook%20Appendices/16.%20
 Programmatic%20Agreements/aashto_pa_roadmap_may2016.pdf

 </u>
- AASHTO CEE Programmatic Agreement Library: <u>https://environment.transportation.org/pal_database/</u>
- AASHTO CEE Programmatic Agreement Toolkit: <u>http://environment.transportation.org/documents/programmatic_agreement_toolkit/main.htl</u>
- Transportation Research Board report on "Agency Use of and Approach to FHWA Approved Programmatic Agreements": <u>http://onlinepubs.trb.org/onlinepubs/archive/NotesDocs/25-25(13)</u> FR.pdf

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 3b Regional General Permits

Regional General Permits

United States Army Corps of Engineers (USACE)



FDOT DISTRICTS: All Districts (SAJ-92 & SPGP permits); Portions of Districts 1, 2, 4, & 5 (SAJ-111)

ISSUES:

Minor impacts to wetlands and waters of the United States

SUMMARY: The Florida Department of Transportation (FDOT) may apply for a regional general permit when a project's impacts meet the requirements as detailed in the permit. These general permits have limits on wetland impacts or activity types in order to qualify for use. The USACE authorizes the use of SAJ-92 permits; the St. Johns River Water Management District (SJRWMD) authorizes the use of SAJ-111 permits, and the Florida Department of Environmental Protection (FDEP) or other USACE designee authorizes the use of Statewide Programmatic General Permits (SPGPs). Refer to the appropriate general permit for more details below.

1. GENERAL PERMITS

USACE General Permits Authorization: The USACE is the federal permitting agency that is responsible for overseeing navigable waters and all dredging and filling activities within "Waters of the United States", which includes the nation's wetlands and surface waters. According to 33 Code of Federal Regulations (CFR) Section 328.3(b), wetlands include swamps, marshes, and bogs and are defined as "areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support and that under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soils." As part of its jurisdictional role, USACE has the authority to issue general permits on a statewide and regional basis for specific categories of work.

2. GENERAL PERMIT OVERVIEW

General Permits (SAJs): USACE authorizes general permits on a nationwide or regional basis for specific and similar categories of work that are only anticipated to cause minimal wetland impacts. This type of permit was developed to streamline permit issuance while ensuring compliance with applicable laws and regulations. General permits are reviewed every five years, at which point a cumulative impact assessment of work authorized under the permit may be performed. If a project does not comply with the conditions of the general permit, a standard permit application must be submitted instead. Examples of general permits that could apply to FDOT projects are the SAJ-92 permit, the SAJ-111 permit, and the Statewide Programmatic General Permit (SPGP).

3. SAJ-92 PERMIT

SAJ-92 Permit: The SAJ-92 permit is a regional general permit that applies to FDOT projects that have gone through the Project Development and Environment (PD&E) process and are not anticipated to result in more than 5 acres of dredge and fill wetland/surface water impacts for any 1-mile segment of the project. The maximum allowable impact for projects covered under this regional general permit is 50 acres. This type of permit can only be used for linear transportation projects on existing roadway alignments that were reviewed in 2010 or later through the Efficient Transportation Decision Making (ETDM) and/or PD&E processes. It should be noted that this type of permit cannot be used for projects located in Monroe County.

Examples of project activities that may be covered by an SAJ-92 permit include, but are not limited to the following: lane additions, safety improvements, maintenance, bike lane/sidewalk additions, etc. It is beneficial to submit general permit applications early so adequate coordination with the appropriate reviewer can occur and project schedule impacts can be avoided.

Applying for a SAJ-92 Permit: SAJ-92 permits do not have an official issuance timeframe, so the amount of time required for the permit to be issued varies from 6 - 12 months. The SAJ-92 application should be submitted to the USACE during the design phase so that coordination can begin as early as possible. Compensatory mitigation is required for all unavoidable permanent wetland impacts and must be completed through one or more of the following mechanisms and preference hierarchy: 1) securing appropriate number and resource type of credits from approved mitigation bank within the project's service area 2) payment of mitigation fees to an approved in-lieu program within the project's service area; 3) through a "permittee-responsible" mitigation, including those mitigation projects that are part of the FDOT Mitigation Program (Section 373.4137, Florida Statutes); on-site and in-kind compensatory mitigation; and/or off-site and/or out-of-kind compensatory mitigation. It is incumbent on FDOT to demonstrate to the USACE that the compensatory mitigation proposal is the environmentally preferable option to replace the ecological functions and services that would be lost through the implementation of any work proposed. All compensatory mitigation proposals must be approved prior to verification of SAJ-92. For more information refer to <u>USACE SAJ-92</u>. It should be noted that this type of permit

includes 30 special conditions (including required documentation, listed species reviews, and cultural resources requirements) that must all be reviewed and understood to confirm the SAJ-92 permit applies to the project. If all conditions are not met, FDOT must apply for the applicable standard permit instead. Once issued, the SAJ-92 permit will remain valid for a period of five years from the date of issuance. Within 60 days of completing the authorized work and mitigation, FDOT must complete and submit a Self-Certification Statement of Compliance form to the USACE. This form can be found in Attachment 4 of the SAJ-92 permit.

4. SAJ-111 PERMIT

SAJ-111 Permit: The SAJ-111 permit is a programmatic general permit that is only issued by St. Johns River Water Management District (SJRWMD) through a Cooperation Agreement with USACE. Because the SAJ-111 permit applies to projects involving residential, commercial, or institutional building foundations and building pads with up to 3 acres of wetland/surface water impacts, this type of permit does not typically apply directly to FDOT projects. However, the SAJ-111 permit could apply if an FDOT project includes an associated building structure and is in an area under SJRWMD's jurisdiction.

To qualify for an SAJ-111 permit, an FDOT project must be in Baker, Clay, Duval, Flagler, Lake, Marion, Nassau, Orange, Putnam, Seminole, St. Johns, or Volusia county and must be west of I-95 if located in Brevard, Flagler, St. Johns, or Volusia county. Furthermore, the project must involve the construction or expansion of residential, commercial, or institutional building foundations and building pads, and may only impact up to 3 acres of wetland/surface water impacts. These wetland/surface water impacts may only involve low quality or urbanized non-tidal wetlands of the following types: wetlands in pine plantations with raised beds in production over 20 years, herbaceous wetlands in improved pasture, wetlands on parcels bordered by at least 75% development, and wetlands covered by greater than 80% invasive exotic vegetation.

Applying for a SAJ-111 Permit: The SAJ-111 permit application (including project design plans and a Preliminary Jurisdictional Determination Form) should be submitted to SJRWMD as early as possible during the design phase to avoid impacts to the project schedule. Compensatory mitigation for unavoidable wetland impacts is required and must be accomplished at a 1:1 ratio at a federal mitigation bank. The SAJ-111 permit contains 28 special conditions (including required documentation, listed species reviews, and cultural resource requirements) that must be complied with for the SAJ-111 permit to apply to the project. FDOT shall not begin construction until written authorization verifying issuance of SAJ-111 from SJRWMD has been received. Prior to construction, FDOT must also ensure that any other applicable permits and/or certifications required by FDEP or SJRWMD have been acquired. The SAJ-111 permit will remain valid for a period of five years following the date of issuance.

5. STATEWIDE PROGRAMMATIC GENERAL PERMIT

Statewide Programmatic General Permit (SPGP): The SPGP is a type of programmatic general permit that is issued by the (FDEP, SJRWMD, Southwest Florida Water Management District (SWFWMD), or other designee through an agreement with USACE. This permit reduces duplication of permitting effort between the USACE and the State of Florida, as it eliminates the need for separate USACE and USACE designee permits that cover the same scope of work. The current version of this permit is known as the SPGP V-R1. This permit applies to FDOT projects with minor activities that are currently authorized by existing USACE Nationwide and Regional General Permits, such as shoreline stabilization and utility relocations.

The SPGP V-R1 is typically obtained from a USACE Designee when a permit covering the same scope is also required by that same designee. Projects with relatively minor wetland/surface water impacts that involve shoreline stabilization, boat ramps, docks, piers and other minor piling-supported structures, maintenance dredging of canals and channels, and minor transient projects (such as derelict vessel removal, certain geotechnical investigations, and living shoreline projects) may be authorized under the SPGP V-R1.

Applying for an SPGP V-R1: The SPGP V-R1 application should be submitted (along with any applicable Project Design Criteria Checklists) to the appropriate FDEP or USACE Designee office as early as possible during the design phase. There is no need to submit a separate application to the USACE. Once the application and checklists have been received, FDEP or the USACE Designee will review the application to determine if the SPGP V-R1 permit applies to the project. If the permit does apply, FDEP or the USACE Designee will process the project and provide verification of the State Exemption or General Permit confirming Federal Authorization under SPGP V-R1. If it is determined that the permit does not apply, FDOT must submit an appropriate permit application directly to the USACE. Prior to submitting the SPGP V-R1 application, FDOT should carefully review the permit to verify that the project complies with all requirements. The SPGP V-R1 was issued on December 31, 2018 and will expire on July 26, 2021. Once the SPGP V-R1 has been issued, FDOT must also complete and submit the Self-Certification Statement of Compliance form to USACE within 60 days of construction completion. This form can be found in Attachment 32 of the SPGP V-R1 application.

6. TIPS

Tips:

SAJ-92: The SAJ-92 permit does not apply to projects in Monroe County. A modification to SAJ-92 special condition #10 was published on September 1, 2015 and can be found in the USACE Jacksonville District Source Book.

SAJ-111: The SAJ-111 permit does not authorize FDOT roadway projects independent of projects involving institutional building pads.

SPGP: Note that to reduce project schedule delays, ensure applicability of the SPGP V-R1 prior to submitting the permit application. If FDEP or the USACE Designee determines the permit does not apply, FDOT will have to prepare and submit another permit application directly to USACE.

7. RESOURCES

Web Resources*

- USACE Jacksonville District Source Book
 <u>https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book/</u>
- 33 Code of Federal Regulations (CFR) Part 328 https://www.govinfo.gov/content/pkg/CFR-2012-title33-vol3/pdf/CFR-2012-title33-vol3-sec328-3.pdf
- Regional General Permit SAJ-92
 <u>https://usace.contentdm.oclc.org/utils/getfile/collection/p16021coll7/id/16255</u>
- Regional General Permit SAJ-92 Modification #1 <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/permitting/general_permits/RGP/SAJ-92%20Final%20Modification%20_1%20signed%20for%20posting.pdf?ver=2016-08-01-145022-293</u>
- Programmatic General Permit SAJ-111
 <u>https://www.saj.usace.army.mil/Portals/44/docs/regulatory/sourcebook/permitting/general_permits/PGP/Signed%20SAJ-111.pdf</u>
- SAJ-111 Permit Project Review Checklist <u>https://www.sjrwmd.com/static/permitting/SJRWMD_PGP_SAJ-111_Checklist.docx</u>
- State Programmatic General Permit <u>https://www.saj.usace.army.mil/SPGP/</u>
- State Programmatic General Permit (SPGP V R1) / Large link Cut & paste into URL/Address block

Contact Information - Jacksonville District Regulatory Division

The Jacksonville District Regulatory Division has jurisdiction over the geographic area of Florida. The Division is geographically aligned into three Permitting Branches, which are further divided into 10 Permitting offices.

Jacksonville District Regulatory Division 701 San Marco Blvd. Jacksonville, FL 32207-8175 Jacksonville Permitting (Regulatory): 904-232-1177 Email: <u>SAJ-RD@usace.army.mil</u>

Map of Regulatory Offices https://www.saj.usace.army.mil/Missions/Regulatory/Office-Locations/

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 3c

Consumptive Water Use Permitting

Consumptive Water Use Permitting



AGENCIES:	Florida's Water Management Districts (WMD)	
FDOT DISTRICTS:	All FDOT Districts and the Florida Turnpike Enterprise (FTE) System	
ISSUES:	FDOT is required to obtain a Consumptive Water Use Permit when there is a diversion and/or use of ground or surface water. The majority of Consumptive Water Use Permits are allocated for dewatering activities.	
SUMMARY:	A Consumptive Water Use Permit gives approval to withdraw water from the ground/aquifer or surface waters. FDOT must demonstrate that the water use is reasonable and beneficial, will not affect existing users, and be in the public interest.	

1. CONSUMPTIVE WATER USE PERMIT

Responsible Agency(s): Consumptive Water Use Permits are the responsibility of the state's five (5) Water Management Districts (WMD). These regional governmental agencies manage the water resources of the state. The WMDs are made up of Northwest Florida, Suwannee River, the St. Johns River, the Southwest Florida, and the South Florida. The WMDs have adopted rules for regulating the consumptive use of water, which are set forth in Chapters 40X-2 of the Florida Administrative Code (F.A.C.) per the table below. Each WMD has its own rule so review the individual WMD rules applicable to your project area. In addition, procedures for processing water use permit applications are set forth in Chapters 40X-0 and 40X-1, F.A.C. Rule 40X-1.610, F.A.C., provides procedures for permit renewals. Note - Replace X with specific WMD letter using the table below.



	WATER MANAGEME	NT DISTRICT KEY & CONSUMPTIVE USE RULE LINKS
CHAPTER	RULE	WATER MANAGEMENT DISTRICTS
40A	<u>40A-2</u>	Northwest Florida Water Management District
40B	<u>40B-2</u>	Suwannee River Water Management District
40C	<u>40C-2</u>	St. Johns River Water Management District
40D	<u>40D-2</u>	Southwest Florida Water Management District
40E	40E-2	South Florida Water Management District

Mission: The mission of the WMDs is to manage and protect water resources of the state by balancing and improving flood control, water supply, water quality and natural systems.

Activities Requiring a Consumptive Water Use Permit: FDOT will be required to obtain a Consumptive Water Use Permit for any use of water which reduces the supply from which it is withdrawn or diverted. This includes such actions as the use of water from the ground or a canal, lake or river; to irrigate landscaping with multiple wells or pumps; to withdraw water for industrial uses; and, to use reclaimed water that is stored in an unlined lake. In some cases, a Consumptive Water Use Permit will be required for acquiring the water necessary for contamination remediation. The permit limits how much water can be withdrawn and from where so that the WMDs can protect existing water supplies, prevent saltwater intrusion into aquifers, and avoid surface waters from being used up. **Exemptions:** Applicants using seawater or reclaimed water to meet their total water needs are not required to obtain a Consumptive Water Use Permit. However, if the reclaimed water is discharged into an unlined pond, lake, or surface water management system, a water use permit will be required to ensure the proposed use is not harmful to the water resources of the area.

When: A Consumptive Water Use Permit can be acquired during the design phase if the designers have determined need. If not determined by the designers, FDOT's contractor would acquire the permit based on their determination of construction means and methods or remediation activities.

2. PERMITTING

Pre-Application Meeting: If the permit application involves complex issues or if an applicant requires assistance in completing an application, a pre-application meeting with the corresponding WMD is encouraged. Note that some FDOT Districts participate in monthly Interagency Meetings that serve as a means to discuss upcoming permit applications with the WMDs. Participation in these meetings allows FDOT to submit a more complete Consumptive Water Use Permit application and may prevent or avoid delays in processing the permit application.

Submittal: Typically, Consumptive Water Use Permit applications will be submitted through ePermitting (after the pre-application or FDOT Interagency Meeting). Note that each Water Management District has an ePermitting system through which FDOT can apply:

- St. Johns River Water Management District https://www.sjrwmd.com/permitting/#about-cups
- Southwest Florida Water Management District https://www.swfwmd.state.fl.us/business/epermitting
- Suwannee River Water Management District https://permitting.sjrwmd.com/srepermitting/jsp/start.jsp
- Northwest Florida Water Management District <u>https://permitting.sjrwmd.com/nwepermitting/jsp/start.jsp</u>
- South Florida Water Management District <u>http://my.sfwmd.gov/ePermitting/MainPage.do;jsessionid=I0W6ZlveIqZe3ZDPlQ1riLNWvClcm4JLp0rqDRob</u>

Demonstrating Need: Demonstrating "need" for the permit application is based on several factors including legal control over the project site; and, compatibility of the proposed water use with the land use at the project site or area to be supplied water.

Dewatering: The most common Consumptive Water Use Permit is for dewatering activities such as withdrawals of water for construction activities and minor uses such as Remedial Action Plans. There are different WMD permits for dewatering activities primarily based on the number of dewatering days, the amount of pumpage, whether the water will stay on or off site, impacts to natural resources, and the phasing of the project construction activities. If you are pursuing dewatering activities, review the appropriate WMD's regulations and requirements for your project and conduct a pre-application meeting.

3. TIMEFRAMES FOR CONSUMPTIVE WATER USE PERMITTING

After an application is submitted, the WMD has a statutory time frame of 30 days to request additional information (RAI). Once an application is deemed complete the WMD will have between 60-90 days to issue the permit. Note that permitting fees vary between WMDs so review your individual WMD fees.

Required Information: The following information should be included in your application:

- The quantity and source of the water requested;
- The location of the water source;
- The location of the wells (for groundwater) or points of withdrawal (for surface water), and/or culverts;
- What the water will be used for;
- Water conservation and recycling plans;
- Impact assessment modeling;
- Saline water and/or wetland monitoring plan (if applicable);
- Reclaimed water evaluation;
- Dewatering plans and calculations (dewatering permits only); and,
- The appropriate permit application processing fee.

4. TIPS

Tips:

- Schedule a pre-application meeting with WMD Water Use staff prior to the submittal of a Consumptive Water Use Permit application. Note that depending on the complexity of the project, more than one meeting may be necessary.
- When applying for a Consumptive Water Use Permit for a remedial action plan, an approved copy of the Remedial Action Plan must be submitted as part of the application. Typically, this permit is acquired by FDOT's Contamination Assessment/Remediation Contractor (CAR) contractor.
- If a dewatering project will be discharging dewatering effluent off-site, documentation of approval for off-site discharge, from the entity owning the off-site conveyance system, will be required as part of the application package.
- Note that non-contiguous parcels in the same county may apply for one water use permit encompassing all such parcels, provided it is shown that the water use for each parcel is for the same water use classification. If multiple water use classifications such as drinking water and landscape irrigation are served by separate withdrawal facilities on separate parcels, a water user should seek separate water use permits.
- Discuss in your pre-application the amount of hydrologic information they will require. This is especially important for projects in which there are concerns regarding water resource availability or potential impacts to wetlands as a result of proposed withdrawals. The WMD will require detailed site-specific information in support of the application such as aquifer performance tests, water quality surveys, well inventories, and environmental assessments, as required. The need for this information will be based on the amount of the proposed withdrawal, characteristics of the requested water source in the region, potential for environmental harm, potential for interference with existing legal uses, and proximity of applicable and relevant existing data. Note that all final plans, calculations, analyses, or other geologic/engineering documents submitted as part of a permit application are to be signed and sealed by a registered professional.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Once you have received your Consumptive Water Use Permit make sure to review the section labeled "Standard and Special Permit Conditions." These are the restrictions and requirements that are a part of the permit including the allocated amount of water, expiration date of the permit, and any information that needs to be submitted on a regular basis. Review these requirements and contact Water Use Compliance staff if you have questions.

Most permits require the permittee to keep a copy of the permit, as well as be available on-site, and when the WMD requests it. Failure to do so can result in fines and citations.

Note that it is important to apply for a renewal of your permit before it expires otherwise your next application may have a shorter duration.

6. **RESOURCES**

Web Resources*

- South Florida Water Management District, Water Use Permitting Manual Vol. III; <u>https://www.sfwmd.gov/sites/default/files/documents/vol_iii_water_use.pdf</u>
- South Florida Water Management District, Applicant's Handbook for Water Use Permits Applications; <u>https://www.sfwmd.gov/sites/default/files/documents/wu_applicants_handbook.pdf</u>
- Water Use Permits fee schedule; Section 40-1.607 FAC https://www.sfwmd.gov/sites/default/files/documents/water use fee schedule.pdf
- Northwest Florida Water Management District https://www.nwfwater.com/Permits/Water-Use-Permits
- Suwannee River Water Management District, Water Use Permits http://www.srwmd.state.fl.us/index.aspx?nid=89
- Suwannee River Water Management District, Water Use Permit Applicant's Handbook http://www.srwmd.state.fl.us/DocumentCenter/View/8751
- St. Johns River Water Management District, Permitting https://www.sjrwmd.com/permitting/#about-cups
- Southwest Florida Water Management District, Water-Use Permitting Information Center

https://www.swfwmd.state.fl.us/business/epermitting/water-use-permit-information-center

- Florida Department of Environmental Protection, Division of Water Resource Management https://floridadep.gov/water
- Florida's Water Permitting Portal Search for Consumptive Water Use Permits http://flwaterpermits.com/agws10/fppcup1/

* If you are experiencing difficulties accessing web resources please review your web browser settings, security browser controls, or cut-and-paste the link directly into your URL/address bar. Note that website links may change overtime. If a web link is not accessible, you may be able to find the resource by going through the website's home page.

APPENDIX 3d Wetland Mitigation

WETLAND MITIGATION Clean Water Act Section 404 -Compensatory Mitigation Requirements



REGULATORY AGENCIES:	Several federal and state agencies working collectively to oversee wetland protection and mitigation, as well as the management of recreational, commercial, and listed species that are dependent on wetland ecosystems - U.S. Army Corps of Engineers (USACE); U.S. Environmental Protection Agency (EPA); Florida's Water Management Districts (WMD); Florida Department of Environmental Protection (FDEP); U.S. Fish and Wildlife Conservation Commission (USFWS); National Marine Fisheries Service (NMFS); and, Florida Fish and Wildlife Conservation Commission (FWC).
FDOT DISTRICT:	1, 2, 3, 4, 5, 6 and the Florida's Turnpike Enterprise
ISSUES:	FDOT is required to compensate for the functional loss resulting from unavoidable wetland impacts. Compensatory mitigation can include, but is not limited to, the purchase of mitigation credits from a permitted private mitigation bank or regional offsite mitigation area, as well as the creation of an offsite or on-site mitigation area.
SUMMARY:	After avoidance and minimization efforts for proposed project impacts to wetlands have been completely evaluated, FDOT shall develop a mitigation proposal to replace any impacted wetland function within the appropriate regional watershed. Termed "Compensatory Mitigation" this action refers to the restoration, establishment, enhancement, or preservation of wetlands, streams or other aquatic resources for the purpose of offsetting unavoidable impacts.

1. WETLANDS & WETLAND MITIGATION

Wetlands: Wetlands are those areas that are inundated or saturated by surface water or ground water at a frequency and a duration sufficient to support a prevalence of vegetation adapted for life in saturated soils. Soils present in wetlands generally are classified as hydric or alluvial or possess characteristics of low-oxygen (anaerobic) conditions associated with prolonged saturation or flooding. Florida wetlands generally include swamps, marshes, bayheads, bogs, cypress domes and strands, sloughs, wet prairies, riverine swamps and marshes, tidal marshes, mangrove swamps and other similar areas.

Wetland Mitigation: Wetland mitigation is the restoration, creation, enhancement, and/or preservation of wetlands, streams, or other aquatic resources for the purpose of offsetting unavoidable adverse impacts.

2. MITIGATION & PERMITTING

Permitting: To ensure compliance with the U.S. Clean Water Act (Section 404, 13 USC 1344) and the Florida Water Resources Act (Chapter 373, Florida Statutes), transportation projects that impact wetlands, streams, or other water resources must secure federal and state permits.

Federal Authorization: The U.S. Clean Water Act provides the U.S. Army Corps of Engineers (USACE) and U.S. Environmental Protection Agency (EPA) with the authority to regulate a range of threats to the "physical, chemical and biological integrity" to the waters of the United States. Federal regulations require that projects must first avoid impacting wetlands or streams when practicable; minimize unavoidable impacts, and as the last step provide compensation for unavoidable impacts in the form of ecological restoration, enhancement, or preservation of similar, alternate resources.

State Authorization: The Florida legislature authorizes that the state's water resources be managed at a state and regional level under the Florida Water Resources Act. The Florida Department of Environmental Protection (FDEP) and the regional Water Management Districts (WMD) oversee mitigation for the state.

Other Applicable Laws: The Endangered Species Act (ESA) and Florida's Endangered and Threatened Species Rule (Chapter 68A-27, Florida Administrative Code, F.A.C) provide authorization for the U.S. Fish and Wildlife Service (USFWS), the National Marine Fisheries Service (NMFS), and the Florida Fish and Wildlife Service (FWC) to provide guidance as part of their oversight and management role for recreational, commercial, and listed species dependent on wetland habitats. Note that the USFWS is often consulted regarding wetland and wood stork Core Foraging Habitat (CFH) impacts and mitigation through the Section 7 ESA Consultation process as part of NEPA or federal permitting process (See Wood Stork Appendix). Private mitigation banks must demonstrate that their wetland credits are also approved by the USFWS for replacing wood stork CFH.

3. WHEN TO MITIGATE

Once Design has provided project plans (60% plans) and wetland avoidance and minimization efforts have been thoroughly evaluated, FDOT shall develop a mitigation proposal to address the loss of wetland functions. The proposal should evaluate the loss of flood storage areas, drainage and drawdown of water in wetlands and wellfields, and water conservation. In addition, mitigation proposals for projects must be designed to protect and maintain existing natural wetland functions, including fish, wildlife, and listed species habitat. The mitigation proposal shall be included in the federal and state permitting applications as required. Note that regulatory agencies typically require a mitigation bank reservation letter, or if using credits already purchased or created by FDOT, a mitigation ledger showing the deduction from the bank or Permittee-Responsible Mitigation site prior to final permitting.

4. WETLAND MITIGATION APPROACHES

Applicable regulatory approaches to wetland mitigation:

- *Restoration:* Re-establishment or the improvement of a wetland with the goal of returning natural or historic functions and characteristics to a former or degraded wetland. The objective is to have the improvement result in a gain in wetland function and/or wetland acres. Activities could include removal of exotic vegetation, hydrologic improvements, removal of fill, etc.
- *Enhancement:* Activities conducted within existing wetlands that improve one or more wetland functions such as water quality, flood water retention or wildlife habitat.
- *Preservation:* Preservation includes the permanent protection of wetlands through the implementation of appropriate legal and physical mechanisms, such as conservation easements, title transfers, etc. Preservation alone is not always accepted by regulatory agencies and may be used only in certain circumstances, including when the resources to be preserved contribute significantly to the watershed.
- *Creation:* The development of a wetland where a wetland did not previously exist through manipulation of the physical, chemical and/or biological characteristics of the site. This effort can present a number of challenges and can be expensive in long-term maintenance. Generally, not a preferred method for FDOT; however, it may be the only option in some cases. Avoid placing Permittee-Responsible Mitigation in locations that may be required for future transportation needs or in-locations that were <u>not</u> historically natural wetlands.

5. COMPENSATORY MITIGATION

Mitigation for Transportation projects can be viewed in <u>Florida Statutes 373.4137</u>, <u>Mitigation Requirements for Specified</u> <u>Transportation Projects</u>. Generally, wetland mitigation can be acquired through:

- *Mitigation Banking:* Entrepreneurial ecological restoration firms (mitigation bankers) that invest in large restoration projects (mitigation banks) and sell compensation credits (wetland and stream offsets) to permittees. FDOT can purchase those credits to meet their requirements for compensatory mitigation. The mitigation bank is responsible for the long-term success of the mitigation site. Note that the USACE has established a preference for using credits from a mitigation bank over other forms of compensation mechanisms.
- *Permittee-Responsible Mitigation:* Restoration, creation, enhancement or preservation of wetlands to compensate for wetland functional loss. The permittee performs the mitigation and is responsible for implementation, maintenance, and long-term care. The mitigation can occur at the site of the proposed impacts or at a regulatory approved off-site location. Permittee-Responsible Mitigation is often used when no mitigation banks are available within the project service area or when the type of wetland function lost is not available. Note that it is not FDOT's

preference to have mitigation adjacent to its roadways and structures as it can cause complications with maintenance activities and limit future capacity needs. On-site mitigation is only used in unique project specific situations. Offsite Permittee-Responsible Mitigation can be done jointly, with other agencies or with County or local governments. Examples include restoration of wetlands within County parks or natural lands. Note that independent permits are required to create a Permittee-Responsible Mitigation site, as well as a Conservation Easement into perpetuity. Permittee-Responsible Mitigation sites cannot be proposed within areas already congressionally authorized for wetland restoration under the Comprehensive Everglades Restoration Plan (CERP).

• *In-Lieu Fee Mitigation:* FDOT provides funds to an in-lieu-fee sponsor (a public agency or non-profit organization). Usually, the sponsor collects funds from multiple permittees in order to pool the financial resources required to construct and maintain the mitigation site. The in-lieu fee sponsor is responsible for the success of site. The State Water Management Districts can provide sponsorship through the FDOT Mitigation Program, or "Senate Bill", however not all WMD participate in the program.

6. TIPS

Identifying Mitigation Banks: Mitigation Banks have designated Service Areas (e.g., watershed, county) where they can provide compensatory mitigation for impacts to wetlands and/or other aquatic resources. To identify mitigation banks available within your project area you can perform a desktop review of the <u>Environmental Screening Tool (EST)</u>; the USACE <u>Regulatory In-lieu Fee and Bank Information Tracking database (RIBITS)</u>, or the <u>FDEP Geospatial Open Data</u> for <u>Mitigation Banks</u>. You can also speak with your regulatory agencies to request guidance. They have considerable knowledge and experience with the options and opportunities available within each basin.

Tips: Review FDOT's <u>Environmental Mitigation Payment Processing Handbook</u> for guidance on means and methods for purchasing wetland mitigation credits. Note that multiple private mitigation banks may exist within the project impact area and therefore FDOT may have to advertise for mitigation credits through a competitive bidding process. This should be accounted for within the project schedule. In addition, appropriate funding for purchasing mitigation should be reviewed and requested in advance of permitting. Note that mitigation banks use different wetland assessment methodologies (UMAM, MWRAP, WATER, etc.) to determine the ecological functions and the amount those functions provide compensatory mitigation. When identifying required mitigation for your project use the same methodology as the bank(s) within your service area.

7. **RESOURCES**

Web Resources*

- FDOT's Environmental Mitigation Payment Processing Handbook http://www.fdot.gov/environment/pubs/Final%202017%20Mitigation%20Handbook.pdf
- USACE RIBITS Regulatory In-lieu Fee and Bank Information Tracking https://ribits.usace.army.mil/ribits_apex/f?p=107:2
- USACE Mitigation and Compensatory Mitigation
 <u>https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/mitig_info/</u>
- USACE Wetland Delineation Manual <u>https://el.erdc.dren.mil/elpubs/pdf/wlman87.pdf</u>
- FDEP Mitigation and Mitigation Banking

https://floridadep.gov/water/submerged-lands-environmental-resources-coordination/content/mitigation-andmitigation-banking

- Mitigation Banks issued by SJRWMD http://webapub.sjrwmd.com/agws10/mt/
- Mitigation Banks issued by SWFWMD <u>https://www.swfwmd.state.fl.us/projects/fdot-mitigation-program</u>
- Mitigation Banks issued by SFWMD <u>http://my.sfwmd.gov/ePermitting/MainPage.do</u>
- Mitigation Banks issues by NWFWMD <u>https://fdep.maps.arcgis.com/home/webmap/viewer.html?webmap=e88e14fa17ad4a2ca49d63a6016f3eaf&</u> <u>extent=-88.8398,24.5257,-76.7108,31.5023</u>

• Mitigation Banks issued by SRWMD https://fdep.maps.arcgis.com/home/webmap/viewer.html?webmap=e88e14fa17ad4a2ca49d63a6016f3eaf&exte nt=-88.8398,24.5257,-76.7108,31.5023

APPENDIX 3e

Coastal Construction Control Line Permitting

Coastal Construction Control Line (CCCL) Permitting



REGULATORY AGENCIES:	Florida Department of Environmental Protection (FDEP)
FDOT DISTRICT:	All FDOT Districts with coastal systems
ISSUES:	Any work proposed seaward of the CCCL including, but not limited to, such activities as construction, excavation, sand or dune plant removal, coastal armoring, lighting, and other activities that could destabilize or destroy beach and dune systems.
SUMMARY:	The CCCL Program regulates activities that can cause beach erosion, destabilize dunes, threaten upland properties, or interfere with public access. The program also protects sea turtles nesting beaches and dune plant communities.

1. COASTAL CONSTRUCTION CONTROL LINE REGULATIONS AND STATUTES

Coastal Construction Control Line (CCCL): In order to protect and manage Florida's beaches and coastal systems, the State Legislature adopted the *Florida Beach and Shore Preservation Act*. The Act provides three interrelated programs administered by the FDEP including the CCCL Program, the Beach Management Funding Assistance Program, and the Beaches, Inlets and Ports Program. The CCCL Program protects the beach and dune system from construction activities that could weaken, damage or destroy their integrity. The following statutes and codes make up the program:

Chapter 161, Florida Statutes (F.S.), Part 1, Regulation of Construction, Reconstruction & Other Physical Activity

- Section 161.053, F.S., Coastal construction and excavation; regulation on county basis, entrusts the FDEP with the protection of the beach and dune systems, establishing the CCCL, and the authority to regulate construction, excavation, dune vegetation removal and other activities seaward of the CCCL. The CCCL is established using historical weather data (past hurricanes), tide cycles, offshore bathymetry, erosion trends, upland topography, and existing vegetation and structures to develop predictive models and scientific principles that determine the upland limits of a one-hundred-year coastal storm.
- Section 161.085, F.S., Rigid coastal armoring structures, provides regulatory policies for coastal armoring, including temporary protective measures administered on an emergency basis following storm events.
- Section 161.052, F.S., Coastal construction and excavation, covers coastal construction on sandy "pocket" beaches in Florida's Big Bend and in the Keys. On sandy beach areas where no CCCL has been established, coastal construction is prohibited within 50 feet of the line of mean high water except by waiver or variance. These regulations apply to the 50-foot area of beach inland from the mean high-water line on the small sand beaches fronting Gulf of Mexico and Atlantic Ocean shorelines. No coastal construction regulations are applied under the CCCL program for marsh, mangrove or rocky shorelines; however, other regulations do apply (see Wetland Appendix).

Coastal Construction Rules

- Chapter 62B-33, Florida Administrative Code (F.A.C.), Rules and Procedures for Coastal Construction and Excavation (Permits for Construction Seaward of the Coastal Construction Control Line and Fifty-Foot Setback), provides the general requirements to obtain a CCCL permit. Approval of a permit application is based upon a review of the proposed impacts to the beach dune system, adjacent properties, dune vegetation, and sea turtles.
- Chapter 62B-34, F.A.C., General Permits for Activities Seaward of the Coastal Construction Control Line, sets policies and procedures for General Permit types. Under this rule, structures and activities located well landward of the beach are approved through a streamlined, 30-day permit process. General permit lines established along many beaches provide a means for determining if your project is eligible.
- Chapter 62B-55, F.A.C., Model Lighting Ordinance for Marine Turtle Protection, identifies policies for counties and cities to follow for protecting nesting sea turtles and their hatchlings from light pollution.

Purpose of CCL: The CCCL Program aims to protect against improperly sited and designed structures that can destabilize or destroy the beach and dune environment. If destabilized, these valuable coastal resources can be lost, as well as the natural services they provide including recreation, storm protection and environmental habitat values (such as sea turtle nesting). The CCCL line establishes an area of jurisdiction in which special siting and design criteria are applied for construction and related activities. These standards are stringent because of the greater forces that occur within this dynamic seaward beach zone from storm events and the potential for damage to upland resources if these beach systems are lost.

Activities requiring a CCCL Permit: A permit is required from FDEP for construction and excavation activities seaward of the CCCL. Note that the CCCL is not a seaward limit for construction of upland structures (such as a setback line), rather it is an area wherein special siting and design considerations are required to protect the beach-dune system.

Exemptions: Maintenance, repairs, or modifications of existing structures are exempted as long as the activity does not involve additions to, repairs of, or modifications to the foundation. Routine maintenance of the foundation is also exempt and minor repairs may also be exempted after FDEP's review. Chapter 62B-33, F.A.C., outlines other specific activities that are or may, after review, be exempt. Otherwise, construction activities will require either a field or an administrative permit from FDEP.

2. PERMITTING

The CCCL permit should be acquired during the initial design phase as a significant amount of coordination may be necessary.

Other Coordination & Permitting: Note that a Joint Coastal Permit (JCP) with the U.S. Army Corps may be necessary if work is within the high tide line. Section 404 states that the high tide line is the line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm surges.

Also, a Florida Fish and Wildlife Conservation Commission (FWC) plans review, including lighting plans, may be required to evaluate potential impacts to sea turtles and sea turtle nesting beaches (See Appendix on Marine/Sea Turtles). If there is potential for adverse impacts to sea turtles or their nesting habitat, Section 7 consultation with the USFWS is required under the Endangered Species Act (ESA).

3. APPLYING FOR A CCCL PERMIT

CCCL Permit Manager: The permit manager is responsible for reviewing permit applications, issuing permits, ensuring compliance and consulting with permit applicants for specific counties. Although CCCL permit managers are located in the Tallahassee office, they can provide guidance with permitting construction and other activities on their counties' beaches.

Go to: https://floridadep.gov/water/coastal-construction-control-line/content/cccl-permit-managers

FDEP District CCCL Field Inspector(s): The field inspector is responsible for meeting people on site, inspecting permit projects, and observing construction and other activities on beach and dune systems. Inspectors work out of the FDEP district offices around the state. Field inspectors can meet you in the field to discuss specific issues and provide first hand guidance.

Go to: <u>https://floridadep.gov/water/coastal-construction-control-line/content/district-field-representatives-contact-list</u>.

CCCL Application Guidelines: FDEP has a CCCL Permit Application Guideline document which provides details on completing and submitting for an Individual Administrative Permit, a General Permit, an Emergency Permit, or a Dune Core Permit.

Go to: https://floridadep.gov/sites/default/files/CCCL-PermitApplicationGuidelines.pdf.

Review Existing CCCL Permit Applications and Projects: <u>OCULUS</u>, FDEP's Electronic Document Management System, can be used to conduct a search for existing CCCL permit applications and permitting documents. If you have questions about using OCULUS, contact the FDEP Information Technology <u>Service Desk</u>, 850-245-7555. If you need CCCL documents not found in OCULUS, please email <u>CCCL@dep.state.fl.us</u> or call 850-245-8336.

Electronic Document Submission Instructions: To see instructions on how to submit electronic forms such as the CCCL Permit Application, and digital documents such as surveys and plans.

Go to: https://floridadep.gov/water/coastal-construction-control-line/documents/electronic-document-submission-instructions.

4. PERMITTING TIMEFRAMES

After an application is submitted, FDEP has up to 30 days to review for completeness. If FDEP deems the application as incomplete, a request for additional information (RAI) will be sent. Per Chapter 62B-33.008 F.A.C, FDOT has 180 days from the date that the FDEP mails an RAI to submit that information to FDEP. If FDOT requires more than 180 days to respond to a RAI request, then FDOTshall notify the FDEP in writing of the circumstances, at which time the application shall be held in active status for a period of up to 90 days. Additional extensions shall be granted for good cause shown by FDOT. A showing that FDOT is making a diligent effort to address the RAI shall constitute good cause. Failure of FDOT to provide a timely RAI response by the deadline shall result in denial of the application.

Information to Provide: To see what should be included within your application package, go to: https://floridadep.gov/sites/default/files/CCCL-PermitApplicationGuidelines.pdf

5. TIPS

Tips: Early informal coordination is recommended with CCCL Permit Manager and Field Inspector if beach work is proposed. Below are some of the areas that require special environmental considerations:

- **Dune Vegetation:** Follow FDEP's <u>Recommended Florida Native Beach and Dune Plants for Beachfront Properties and Dune Restoration Guidelines</u> versus developing a project specific planting design. If FDOT follows the planting lists, then it typically will not be required to have an individualized planting plan review at the time of permit application. Coastal construction permit applications that do not follow the FDEP's planting guidelines must avoid and minimize adverse impacts to native salt tolerant plants that would result from maintenance and planting of vegetation associated with the permit. Such applications shall include a detailed planting plan.
- Sea Turtles: Follow FDEP's sea turtle criteria rather than developing a project specific plan. Activities seaward of the CCCL shall follow the marine turtle protection requirements including: if FDOT follows FDEP's *Marine Turtle Lighting Guidelines* as adopted by rule for all forms of lighting associated with the proposed activity, then it will have minimized adverse impacts to marine turtles related to lighting and the FDEP will not require individualized lighting plan review at the time of permit application. These guidelines do not supersede more stringent requirements of local government marine turtle protection and lighting ordinances and FWC requirements. Coastal construction permit applications that do not follow FDEP's lighting guidelines must avoid and minimize adverse impacts to marine turtle nesting habitat from lighting associated with the permit. Such applications shall include a detailed lighting plan and are subject to review. Work seaward of the CCCL that may adversely impact sea turtle nesting beach requires Section 7 ESA Consultation with the USFWS. FWC may provide technical assistance, but not final Section 7 ESA concurrence (See Sea Turtle Appendix).
- Sand Quality Standards: Sand placed on the beach or in a dune system is required to be similar to the existing sand and shall maintain the engineering and ecological functions of the native sand occurring on the beach and in the adjacent dune system. See FDEP's requirements for <u>sand replacement</u>. Sand is valued and cannot be removed from the beach without approval from FDEP. Note that FDEP tracks how much and where sand is relocated to.
- Avoidance and Minimization: It is important to clearly identify all avoidance and minimization measures in your application. Proposed measures must reduce any action that disturbs the beach and coastal system, adjacent properties and existing structures. Examples would include reducing seaward encroachment; avoiding excavation of sediments; preventing the removal of, or damage to, beach-dune vegetation; circumventing alterations of dune topography; avoiding discharges directed toward the beach or adjacent properties; modifying the quantity, size and mass of structures; and otherwise preventing activities that interfere with the natural function of the beach dune system. Other actions that could be considered for avoidance and minimization could include reducing adverse impacts from erosion, wind, or water borne debris; or preventing any interference with marine turtle nesting, public access or natural coastal system recovery processes following storm events.
- **Mitigation:** Potential mitigation activities could include enhancement of the coastal system or to marine turtles habitat with the placement of beach quality sand; revegetation of natural plant communities; removal of invasive exotic vegetation, structures, rubble and debris from the beach and dune system; replacement of non-conforming light fixtures with fixtures that conform to FDEP's *Marine Turtle Lighting Guidelines*; and other measures that show clear benefits to the coastal system, marine turtles, or public beach access.

6. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Once you have received your permit make sure to review it thoroughly and be aware that it may include specific restrictions, conditions, or requirements. FDOT is required to keep a copy of the permit on-site should FDEP request it. Failure to do so can result in fines and citations.

7. RESOURCES

Web Resources*

- To locate the CCCL go to FDEP Map Direct an interactive geographic information system (GIS) <u>https://ca.dep.state.fl.us/mapdirect/?webmap=a8c9e92fbad5446d987a8dd4ee5dc5cc</u>
- FDEP Ask/ Have Questions about the CCCL? https://floridadep.gov/water/coastal-construction-control-line/content/ask-have-questions-about-coastal-construction
- FDEP Apply, CCL Permitting <u>https://floridadep.gov/water/coastal-construction-control-line/content/apply-coastal-construction-control-line-cccl</u>
- To Find a FDEP CCCL Permit Manager https://floridadep.gov/water/coastal-construction-control-line/content/cccl-permit-managers

- To Find a FDEP District Field Representative
 <u>https://floridadep.gov/water/coastal-construction-control-line/content/district-field-representatives-contact-list</u>
- FDEP CCCL Forms
 <u>https://floridadep.gov/water/coastal-construction-control-line/content/coastal-construction-control-line-cccl-forms</u>
- CCCL Publications
 <u>https://floridadep.gov/water/coastal-construction-control-line/content/coastal-construction-control-line-cccl-publications</u>
- Beaches and Coastal Systems Rules & Statutes https://floridadep.gov/water/water/content/water-resource-management-rules
- FDEP Electronic Document Submission Instructions <u>https://floridadep.gov/water/coastal-construction-control-line/documents/electronic-document-submission-instructions</u>
- FWC Sea Turtle Program https://myfwc.com/wildlife/abitats/wildlife/sea-turtle/
- Coastal Construction Control Line Program Content
 <u>https://floridadep.gov/program-content/Water/Coastal-Construction-Control-Line</u>

APPENDIX 3f Section 408 Review & Permission

Section 408 Review and Permission



REGULATORY AGENCY:	United States Army Corps of Engineers (USACE)
FDOT DISTRICT:	All Districts, especially District 4 & 6 in association with the USACE's Central & South Florida Flood Control Project and the Comprehensive Everglades Restoration Plan
ISSUES:	Any activity that proposes to build upon, alter, improve, move, occupy, or otherwise affect the usefulness, or the structural or ecological integrity, of any USACE federally authorized civil works project.
SUMMARY:	The Section 408 Review is to ensure that Congressionally-authorized benefits of a USACE project are not undermined by an alteration made by others, and to ensure that proposed alterations are not injurious to the public interest.

1. SECTION 408 PROGRAM

USACE Section 408: Authorization for Section 408 is in Section 14 of the River and Harbors Appropriation Act of 1899 (33 USC 408) and provides that USACE may grant permission for the alteration of a public work so long as that alteration is not injurious to the public interest (e.g., flood risk management, coastal storm damage reduction, navigation) and will not impair the benefits of the project. The Act states: *"It shall not be lawful for any person or persons to take possession of or make use of for any purpose, or build upon, alter, deface, destroy, move, injure, obstruct by fastening vessels thereto or otherwise, or in any manner whatever impair the usefulness of any sea wall, bulkhead, jetty, dike, levee, wharf, pier, or other work built by the United States, or any piece of plant, floating or otherwise, used in the construction of such work under the control of the United States, in whole or in part, for the preservation and improvement of any of its navigable waters or to prevent floods, or as boundary marks, tide gauges, surveying stations, buoys, or other established marks, nor remove for ballast or other purposes any stone or other material composing such works: Provided, that the Secretary of the Army may, on the recommendation of the Chief of Engineers, grant permission for the temporary occupation or use of any of the aforementioned public works when in his judgment such occupation or use will not be injurious to the public interest: Provided further, that the Secretary may, on the recommendation of the Chief of Engineers, grant permission for the Secretary such occupation or use will not be injurious to the public interest and will not impair the usefulness of such work."*

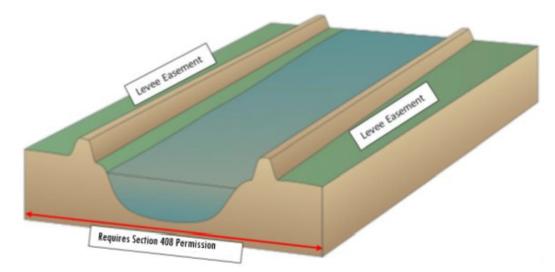
Note that USACE projects may be managed by local sponsors, such as State Water Management Districts (WMD) for canals and levees. In these cases, project review and permitting will go through these agencies before being submitted to USACE.

Mission of the 408 Program: To provide a mechanism for others to alter an existing USACE Civil Works project without seeking reauthorization of the project from Congress; provide a consistent approach across all Civil Works projects for evaluating and documenting alterations; provide a process to help ensure that existing Civil Works projects continue to deliver the public benefits for which they were authorized and constructed; ensures compatibility of new infrastructure with existing Civil Works projects; and ensure that alterations to USACE projects do not have unintended negative impacts to the public.

Section 408 review is an engineering review conducted by the USACE to confirm that a proposed work will not adversely affect its projects. Part of its review includes National Environmental Policy Act (NEPA) compliance. If USACE is determined to be the lead agency, it will be responsible for the coordination required to ensure Endangered Species Act (ESA) compliance, Section 106 of the National Historic Preservation Act (NHPA) review, Flood Management (E.O. 11988), and Tribal Coordination. In addition, USACE is responsible for creating a Review Plan that includes a technical review and final approval of permissions.

Note that the granting or denial of permission pursuant to Section 408 is not a permit action handled by the USACE Regulatory Program. The FDOT has a Contributed Funds Agreement with the USACE Jacksonville District to expedite Section 408 review. The District Permit Coordinator should coordinate early with the Office of Environmental Management to include FDOT projects requiring a Section 408 permission on the review priority list.

Activities Requiring Section 408 Permission: Any proposed activity on, in, over, within any USACE federally authorized civil works project either temporarily or permanently. This includes, but not limited to, such as activities as moving canals or levees; utilities going into or over projects; modifications to structures; etc. Questions to consider include: Does the proposed alteration change how the USACE project will meet its authorized purpose? Does the project modify flood risk management benefits? Does the project preclude or negatively impact future USACE plans?



USACE figure showing when a Section 408 Permission is required.

Exceptions: 408 permissions are only required for alterations proposed within the lands and real property interests identified and acquired for the USACE project and to lands available for USACE projects under the navigation servitude. In addition, USACE Shoreline Management and Master Planning Programs contained in 36 CFR 327 do not require review for purposes of Section 408. The processes in 36 CFR 327 ensure that the requested activity will not be injurious to the public interest and will not impair the usefulness of the project. Engineer Regulation (ER) and Engineer Pamphlet (EP) 1130-2550, Chapter 3, provides the procedures for the USACE Master Plan Program. ER 1130-2-406 provides the procedures for the USACE Shoreline Management Program.

2. INITIATION OF SECTION 408 REVIEW

When: The Section 408 coordination should begin during the initial design phase, as a significant amount of coordination, documentation, and reviews are required.

Other Coordination and Permitting: A large portion of the USACE's flood control system is managed by a local sponsor, the State Water Management Districts, who are charged with safeguarding these federal projects. If the canal or levee adjacent to your project is part of a canal system constructed by the USACE (such as the Central and South Florida Flood Control Project), it is likely that you will need a Water Management District Right-of-Way (ROW) Occupancy Permit (See ROW Occupancy Permit Appendix) and a Section 408 review. These reviews will go through the WMD. Note that once the WMD application for a ROW Occupancy Permit is deemed complete, including submission of any information required for the USACE to perform the Section 408 review, the WMD will submit a copy of the application and supporting documents to the USACE. The ROW Occupancy Permit and Section 408 Review for minor alterations typically requires 2-3 months to complete but may take longer depending on the level of alternations proposed. When the approval is granted or if additional information is required, FDOT will be contacted by the WMD in writing. Work within the WMD's ROW may not begin until the Section 408 permission has been obtained and provided to FDOT, regardless of whether the actual WMD ROW Occupancy Permit has been issued. If you have questions about the Section 408 review process as it relates to the WMD as the local sponsor, contact your WMD ROW Section. The WMD ROW Section coordinates review activities with the District's USACE liaison who handles all communications between the WMD and the USACE. When an application is received by the WMD, it is reviewed to determine if a Section 408 review will be required. If a Section 408 review is required for the proposed work, the applicant will be advised of the information that will be required by the USACE to perform the review.

Note that that any Section 404 permits required cannot be issued by USACE until the Section 408 approval has been received.

3. APPLYING FOR SECTION 408 REVIEW AND PERMISSION

Because proposed alterations vary in size, level of complexity, and potential impacts, the procedures and required information to make such a determination can vary. Based on the proposed alteration, the local sponsor and/or USACE will determine data, analyses and documentation necessary in order to decide whether the proposed alteration does not impair the usefulness of the project and is not injurious to the public interest. Below are nine steps to consider:

<u>**Pre-Coordination:**</u> Conduct early coordination with USACE, or local sponsor, to identify procedures and potential issues. This will aid in focusing efforts, minimizing costs, and protecting sensitive information.

<u>Written Request:</u> This request officially initiates USACE involvement. The information provided will be the basis to determine documentation and approval requirements. The request must be submitted in writing to the District Commander of the Jacksonville office. However, this information may go through local sponsor if one exists. The request should include:

- a description of the proposed alteration including drawings, sketches, maps, and plans that are sufficient to make a preliminary determination as to the location, purpose and need, anticipated construction schedule, and level of technical documentation needed. Detailed engineering plans and specifications are not required, but could be submitted at the same time if available;
- a statement regarding whether the requester is also pursuing authorization pursuant to the Clean Water Act, Sections 10/404/103, and, if so, the date or anticipated date of application/pre-construction notification submittal;
- information regarding whether credit under Section 221 of the Flood Control Act of 1970, as amended, or other law or whether approval under Section 204(f) of Water Resources Development Act (WRDA)1986 is being or will be sought;
- a statement of whether the requester will require the use of federally-owned real property or property owned by the non-federal sponsor; and,
- a statement from the non-federal sponsor endorsing the proposed alternation, if applicable.

Required Documentation: This step is to provide the necessary documentation including technical analysis (i.e. Basis of Design), hydrologic and hydraulics system performance analysis, geotechnical analysis, environmental compliance (NEPA) documents, real estate requirements, and FDOT's design plans. The minimal level of detail will be 60% complete plans and specifications and supporting documents. NOTE that a proposed alteration pursuant to Section 408 must meet current USACE design and construction standards; however, FDOT is not required to bring those portions or features of the existing USACE project that are not impacted by the alteration up to current USACE design standards.

<u>USACE District-Lead Agency Technical Review</u>: The purpose of this step is to define the requirements, procedures, and specific details of how the USACE district-lead Agency Technical Review team will evaluate the following determinations: impair the usefulness of the project, injurious to the public interest, and legal and policy compliance.

<u>Summary of Findings:</u> Upon completion of the Agency Technical Review Team and the demonstration of environmental compliance, USACE will develop a Summary of Findings to summarize rationale and conclusions for recommending approval or denial. The Summary of Findings will serve as the basis for the final decision on the proposed alteration.

<u>USACE Division Review (if required)</u>: Upon receipt of the Summary of Findings, the USACE Division will review the submittal and provide comments to the USACE District within a minimum of 30 days.

<u>HQ USACE Review (if required)</u>: Upon receipt of the Section 408 submittal of the Summary of Findings from the USACE Division, the USACE HQ Office of Water Project Review will evaluate the application for policy compliance. This requires a minimum of 30 days.

Notification: The USACE District Commander is responsible for providing a written notification to FDOT for all Section 408 requests. At this time any special conditions, real estate issues, 404 permits, mitigation, and deficiency in design and construction are to be addressed.

Post-Permission Oversight: USACE will develop procedures for monitoring construction activities. Note that as-builts (revised set of drawings submitted by a contractor upon completion of a project) are required within 180 days of construction completion. USACE will conduct a post construction closeout which requires an on-site inspection of the completed alteration. USACE will keep an administrative record for each Section 408 proposal.

4. TIMEFRAMES FOR SECTION 408 PERMISSION

Review times will vary depending on the complexity of the proposed alteration. Generally, expected time frames for minor modifications include 30-days for completeness and 90-days from the date of completeness. Major changes and modifications can take much longer: District Decision Level 6-8 months and HQ Decision Level 2-3 years.

Information Required: The level of information to be provided will be part of the review process with USACE, and/or the local sponsor.

5. TIPS

Tips: FDOT has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program (Section 404 permits). Note that a decision on a USACE permit application pursuant to Section 404 cannot and will not be rendered prior to the decision on the Section 408 request.

6. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Once you have received your permission make sure to review it thoroughly and be aware that it may include specific restrictions and requirements regarding real estate issues, 404 permits, mitigation, and deficiency in design and construction.

In addition, USACE will develop procedures for monitoring construction activities. Note that as-builts are required within 180 days of construction completion. USACE will conduct a post construction closeout which requires an on-site inspection of the completed alteration.

Note that approval under Section 408 does not grant any property rights or exclusive privileges.

APPENDIX 3g Right of Way Occupancy Permit

Right-of-Way Occupancy Permit

South Florida Water Management District



AGENCY:	South Florida Water Management District* (SFWMD)
FDOT DISTRICTS:	Applies to Districts 1, 4, 6, and Florida Turnpike Enterprise (FTE) System
ISSUES:	A Right-of-Way (ROW) Occupancy Permit is required for any work proposed within those lands associated with canals and levees owned and operated by the SFWMD, over which the SFWMD has ownership or an easement interest in.
SUMMARY:	SFWMD will require a ROW Occupancy Permit for any work within its lands, including but not limited to culverts, control structures, bulkheads, bridge and monitoring facilities. This includes any required relocation of overhead, underground, and subaqueous utility lines.

* *District* is a term often used for both the Florida Department of Transportation's (FDOT) regional (7) divisions and the Water Management administrative (5) divisions.

1. SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Responsible Agency(s): The SFWMD is a state governmental agency that manages the water resources in the southern half of the state, covering 16 counties from Orlando to the Florida Keys.

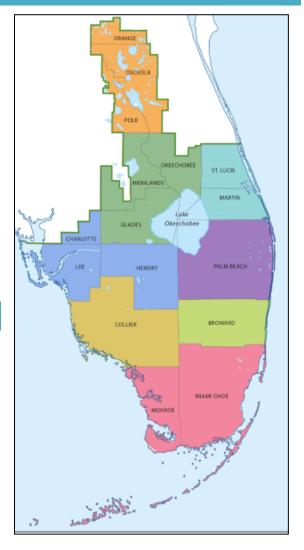
Agency Authorization: The Legislature authorizes that the state's water resources be managed at a state and regional level under the Florida Water Resources Act (Chapter 373, Florida Statutes).

Mission of the SFWMD: The SFWMD is responsible for managing and protecting water resources by balancing and improving flood control, water supply, water quality and natural systems.

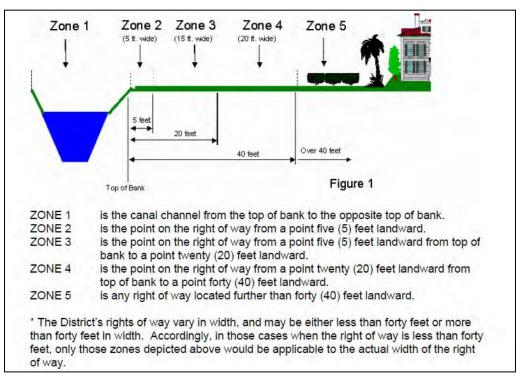
Other Applicable Laws: In addition to SFWMD ROW, the U.S. Army Corps of Engineers (USACE) may also have ownership as part of the original canals and structures authorized under Congress to develop south Florida/Everglades and protect the public from flooding under the *Central and Southern Florida Project* (C&SF). The SFWMD is the local sponsor for USACE for these structures; however, a 408 review and permit may also be required (**See 408 Permit Appendix**).

2. PERMITTING – RIGHT OF WAY SECTION

Right of Way Occupancy (ROW) Permit: The SFWMD uses the ROW Occupancy Permit to protect its ability to effectively manage its canals and levees while providing for compatible public and private uses. FDOT is required to obtain a ROW Occupancy Permit for any work within the SFWMD properties, including but not limited to beautification efforts, culverts, control structures, bulkheads, fences, bridges, and monitoring facilities. Note that this also includes overhead, underground, or subaqueous utility crossings.



In order to effectively evaluate proposed installations of above-ground facilities and uses, the SFWMD has segmented canals and ROW into five operational zones shown below.



The SFWMD has determined that an unencumbered 40-foot-wide strip of ROW, measured from the top of bank landward, is required in order for the SFWMD to perform the required routine and emergency operations and maintenance activities necessary to insure flood protection to the entire community. Within this 40-foot ROW, the SFWMD will not authorize any above-ground facilities or other encroachments unless otherwise specified through permit.

Identification of SFWMD ROW: No SFWMD database exists that identifies ROW ownership; however, coordination with SFWMD staff will help determine ownership. In addition, County Property Appraisers websites often identify the SFWMD's properties within their mapping databases. A field review may also identify SFWMD signage identifying ownership. In addition, check with your FDOT ROW unit who may also be able to provide assistance.

Prohibited Activities: It is prohibited to connect with, place structures in or across, discharge into or make use of the canal and levee system or "Works of the District" without a ROW Occupancy permit.

Exemption: Under the SFWMD Criteria Manual, the planting and maintenance of native or drought resistant turf grasses; low lying groundcover; and, irrigation lines is exempt but may require coordination.



Activities Authorized by Permit: Projects that do not interfere with the SFWMD's access, operations or maintenance activities, projects that do not adversely affect a previously authorized use of the ROW, and meet the rules and criteria of chapters 373, F.S., and 40E-6, F.A.C.

3. APPLYING FOR PERMIT

Acquiring a ROW Occupancy Permit: The ROW Occupancy Permit should be applied for during design. The coordination should start with a pre-application meeting with SFWMD ROW staff. An application for a ROW Occupancy Permit should be made concurrent with the Environmental Resource Permit (ERP) application if an ERP is required.

ROW Occupancy Permit Application Package: FDOT should have a pre-application meeting with SFWMD ROW staff prior to submitting the application or through participating in FDOT's monthly Interagency Meetings held at the SFWMD's Office. Note that participation in the Monthly Interagency meetings requires coordination through FDOT's Drainage Units (FDOT District 4 & 6) as they organize the monthly agenda. When requesting to be on the monthly agenda for the Interagency Meeting be sure to specify the attendance of SFWMD's ROW staff. During the pre-application meeting, SFWMD staff will advise FDOT and identify potential

problems or conflicts with the proposed project. After the pre-application meeting, FDOT should submit the completed permit application with associated processing fee and required drawings.

Note that there is currently no ePermitting for ROW applications. Applications should be submitted to:

SFWMD Headquarters Building B-1

3301 Gun Club Road West Palm Beach, FL 33406 Phone: (561) 682-6973

SFWMD has 30 days to review the application package and ask for any necessary additional information. FDOT has a maximum of 90 days to respond to the requested information. In some instances, a second round of information may be needed; in those cases, the same 30/90-day time clock for both parties is in effect. If FDOT does not meet these deadlines, the application may be denied due to lack of response, unless FDOT requests, in writing, for a waiver of the 90-day response period. Once all additional information is received by the SFWMD has 90 days to prepare a recommendation and present the application to its Governing Board (or, in the case of Notice General Permits, to the Deputy Executive Director) for their formal review and final agency action.

Required Application Information: SFWMD will request all information that will help them evaluate the application and its potential impacts on its ability to access, operate and maintain the canal or levee involved. The information requested varies according to the type and complexity of the project. The following information should be included:

- Applicant's name, address, and phone number, including zip and area codes;
- Project location relative to county, section, township and range; lot and block number and subdivision name; or bounds description;
- Whether the proposal is a modification of an existing use, an existing unauthorized use or a new use;
- Description of the proposed use of, or encroachment on, SFWMD's ROW;
- Description of what portion of the ROW is to be utilized;
- Application processing fee in the specified amount for the proposed use;
- Drawings: utilize English units of measure or a combination of English/metric;
- Three copies of a legible, scaled or fully dimensioned 8.5" x 11" drawing, reflecting the proposed use in plan and profile (elevation) views, showing the location of the proposed use tied to a well-known reference point; and,
- Recent property survey, indicating SFWMD's ROW line. NOTE: engineering plans must be signed and sealed by a Florida registered professional engineer.

Note that FDOT applications that propose pile-supported installations over SFWMD canals or utility crossing under canals should contact SFWMD in writing, requesting their specific design criteria. FDOT will be required by the SFWMD to provide recent cross sections of the canal(s) as well as the location and number of cross sections that are being proposed.

Application processing fees vary. To see the application processing fee schedule go here.

4. TIPS

Tips: Coordinate with your FDOT Surveying and Mapping Office to obtain the required ROW and surveying information, as well as to account for their required timeframes within the project schedule.

A pre-application meeting with SFWMD staff isn't required but is strongly recommended. During the meeting, District staff will advise FDOT and can identify potential problems or conflicts with the proposed project.

Before starting a request for a design modification via letter or e-mail, to the SFWMD ROW section, all the pertinent elevation and existing cross section information associated with the affected canal needs to be clearly identified. Also, arrange for a pre-application meeting and complete Form 0122–OP, Application to SFWMD for Issuance of a Right of Way Occupancy Permit.

One common mistake is to assume that a SFWMD ROW Occupancy Permit is not required when crossing in areas outside the SFWMD canal ROW but not realizing that the project crosses a SFWMD flow-way easement.

In cases where FDOT and SFWMD ROW appear to overlap, the SFWMD ROW typically takes precedence.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Once you have received your permit make sure to review the section labeled "Standard and Special Permit Conditions." These are the restrictions and requirements that are a part of the permit. It should be noted that the ROW Occupancy Permit does not convey

property rights to the permittee but instead acknowledges that the requested use is consistent with the applicable rules and SFWMD missions. A ROW Occupancy Permit can be revoked at any time.

6. **RESOURCES**

Web Resources*

- SFWMD ROW Permits Page https://www.sfwmd.gov/doing-business-with-us/permits/right-of-way
- SFWMD ROW Permits Forms https://www.sfwmd.gov/documents-by-tag/ROW+Permit
- SFWMD Factsheet on Keeping the Canal ROW Clear https://www.sfwmd.gov/sites/default/files/documents/row_clear_canals.pdf
- SFWMD ROW Criteria Manual https://www.sfwmd.gov/sites/default/files/documents/row_criteria_manual.pdf
- Works of The District, Subject to Chapter 40E-6, F.A.C., Right of Way Occupancy Permits https://www.sfwmd.gov/sites/default/files/documents/row works of the district.pdf

SFWMD ROW Occupancy Permitting Section Contact:

- Section Administrator, Right of Way: John Hixenbaugh
- General Inquiries: Nancy Gregorio (561) 682-6171

APPENDIX 3h Water Control Districts

Water Control Districts



"Special Districts"; "298 Districts", or "Drainage Districts"

AGENCY:	Water Control Districts	
FDOT DISTRICT:	Central & South FL – FDOT Districts 1, 4, 5, 6 & Florida's Turnpike Enterprise (FTE)	
ISSUES:	Impacts to secondary drainage (canal) systems and local water control elevations	
SUMMARY:	The Florida Department of Transportation (FDOT) will take into consideration and coordinate with local Water Control Districts regarding their water control elevations, property, structures, and conveyance activities in order to avoid adverse impacts.	

1. WATER CONTROL DISTRICTS (LOCAL)

Responsible Agency(s): A Water Control District is a unit of local government created for a special purpose, as opposed to a general purpose, which has jurisdiction to operate within a limited geographic boundary. The Water Control Districts were created to reclaim lands by providing water control and supply for settlement and agriculture. Today, these local Water Control Districts continue to establish, construct, and maintain a system of canals, drains, ditches, levees, dikes, dams, revetments, locks, reservoirs, holding basins, floodways, pumping stations, and other works. Each seeks to facilitate economic development; control the effects of water, or lack of water, and manage water tables for the welfare of the public, agricultural and sanitary purposes.

Agency Authorization: The Water Control Districts were organized and exist under Chapters 189 and 298, Florida Statutes (F.S.); however, the local Water Control Districts became known as "Chapter 298 Districts".

Chapter 298 of the Florida Statutes (F.S.): Chapter 298, F.S., is the law governing Water Control Districts and district membership, as well as providing for the election of a board of supervisors. The board of supervisors is responsible for adopting the district water control plan and levying assessments or issuing bonds necessary to pay for the costs of improvements authorized by the adopted water control plan.

Chapter 189 of the Florida Statutes F.S.: Chapter 189, F.S. provides the general provisions for the definition, creation, and operation of Water Control Districts. It was the specific intent of the Legislature that Districts be created at the prerogative of the counties and municipalities. The aim was that the Districts cooperate and coordinate their activities with the units of general-purpose local government in which they are located.

Mission of the Water Control District: Originally, the purpose of the drainage districts was to drain and irrigate lands to make them suitable for agriculture. However, today most drainage districts are responsible for stormwater management, operation of regional flood control systems, permitting of structures discharging into existing structures, maintenance of canals and rights-of-way, aquatic weed control, and providing recharge to the regional well fields.

Other Applicable Laws: The Florida Water Resources Act of 1972 contains the core principles as to Florida's Water Policy. The act recognizes that the waters of the state are among its basic resources and that water resources had not previously been conserved or controlled so as to maximize their beneficial use. Thus, the protection and continued maintenance of the integrity of water resources, hydrologic systems, and the ecology associated with them are fundamental principles and goals of Florida water law. The act established and declared that water be a public resource to be managed in the public interest.

2. AGENCY COORDINATION

Activities Requiring Coordination with the Water Control Districts: Section 335.02(4), F.S., provides that FDOT is not subject to local regulations on the State Highway System and therefore is not required to obtain local Water Control District permits. However, there are times when FDOT is working off-system or within the boundaries of a local Water Control District (i.e., right-of-way impact, bridge construction over local/secondary canal system) or impacting water conveyance and/or capacity. In these cases, coordination with the local Water Control District with jurisdiction in that area is required. Note that coordination, in some cases, may identify the need to go through the permitting process. For specific questions, please consult with the FDOT Office of General Counsel to receive guidance.

3. PERMITTING

Prohibited Activities: No improvement shall be constructed across, under, along or within a canal or ROW over which a local Water Control District has jurisdiction, nor shall any use occur within a local District ROW, unless a valid application for a construction or use permit has been approved and issued by that local District. For off system work, note that no site development that alters the quantity and quality of surface water runoff within the jurisdictional limits of a local Water Control District shall occur unless a valid permit application has been reviewed and approved by that local District. Any proposed use, crossing, or connection to works of a local Water Control District shall not inhibit maintenance of the canal system. Note that easements may be required to facilitate uninterrupted maintenance access by the local District. Projects within local Water Control Districts' boundaries which propose to discharge into a local Water Control District canal system shall meet water quality standards in accordance with laws and/or rules of the State of Florida; the Federal Government; and the regional State Water Management District.

Exemption: As applicable and in matters governing in-kind replacements or renovations to existing facilities, the local Water Control District may waive permitting when such action is determined to be in the best interest of that local District and general public, and consistent with the objectives of that District.

Activities Authorized by Permit: Permits are issued for projects that do not impact the ability of the local Water Control District to effectively and safely use the canal and levee systems within their ROW and continue to provide for existing and proposed compatible public and private uses.

4. TIPS

Tips: Local Water Control District permits are not required; however, FDOT staff should coordinate with the FDOT Office of General Counsel to receive project specific guidance for projects that may impact local Water Control District ROW or structures. It is beneficial to also coordinate with the local District(s) early so that they are aware of the project activities and can address any questions. For applications proposing large, complex projects, the District(s) may require a pre-application meeting to discuss criteria and other requirements. This is especially true for the connection of new drainage and for bridge crossings.

5. **RESOURCES**

Web Resources*

- Drainage and Water Control, Chapter 298, Florida Statutes
 <u>http://www.leg.state.fl.us/Statutes/index.cfm?App_mode=Display_Statute&URL=0200-0299/0298/0298.html</u>
- Florida Special Districts, Special District Accountability Program, Florida Department of Economic Opportunity <u>http://www.floridajobs.org/community-planning-and-development/special-districts/special-district-accountability-program</u>
- Florida Statutory Authority, Chapter 298, Florida Statutes
 <u>http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&URL=0200-0299/0298/0298ContentsIndex.html&StatuteYear=2018&Title=%2D%3E2018%2D%3EChapter%20298</u>
- Florida Statutory Authority, Chapter 189, Florida Statutes
 <u>http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&URL=0100-0199/0189/0189.html</u>
- Map of Water Control Districts within SFWMD https://www.sfwmd.gov/sites/default/files/documents/298 special districts map.pdf
- Uniform Special District Accountability Act, Chapter 189, Florida Statutes <u>http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&URL=0100-0199/0189/0189.html</u>
- Web based tool to find Water Control Districts and Local Governments within the South Florida Water Management District (SFWMD) <u>https://www.sfwmd.gov/our-work/flood-control</u> www.FloridaJobs.org/SpecialDistrictHandbook
- Official List of Special Districts www.FloridaJobs.org/OfficialList

APPENDIX 3i Florida Keys National Marine Sanctuary Permitting

Florida Keys National Marine Sanctuary Permitting



AGENCY:	NOAA's Office of National Marine Sanctuaries (ONMS)
FDOT DISTRICTS:	District 6
ISSUES:	Work within the protected waters of the Florida Keys National Marine Sanctuary including bridges, pilings, and other in-water activities that may impact corals
SUMMARY:	FDOT must demonstrate that it is making all efforts to avoid, minimize and mitigate impacts to benthic resources, particularly to coral within the protected waters of the Florida Keys National Marine Sanctuary.

1. NATIONAL MARINE SANCTUARY PROGRAM

National Marine Sanctuary Program: National Marine Sanctuaries are protected waters of the United States. The National Marine Sanctuaries Act (NMSA) allows the Secretary of Commerce to designate a marine sanctuary. In the Florida Keys, local and national recognition of the degradation of the Keys' unique marine environment led Congress to pass the Florida Keys National Marine Sanctuary and Protection Act in 1990, (P.L. 101-605) (Appendix B) creating the Florida Keys National Marine Sanctuary.

Mission: To "identify, designate and manage areas of the marine environment of special national significance due to their conservation, recreational, ecological, research, educational, or aesthetic qualities". That determination considers ecosystem values such as economically important or threatened species, health and resilience, and protection of resources that species depend upon for survival in a manner that complements existing regulation authorities.

Sanctuary Management: The Sanctuary is administered by NOAA's Office of National Marine Sanctuaries and jointly managed under a co-trustee agreement with the State of Florida, which designates the Florida Department of Environmental Protection (FDEP) as the state management partner. The Florida Fish and Wildlife Conservation Commission (FWC), enforces Sanctuary regulations in partnership with NOAA Office of Law Enforcement.

2. FLORIDA KEYS NATIONAL MARINE SANCTUARY

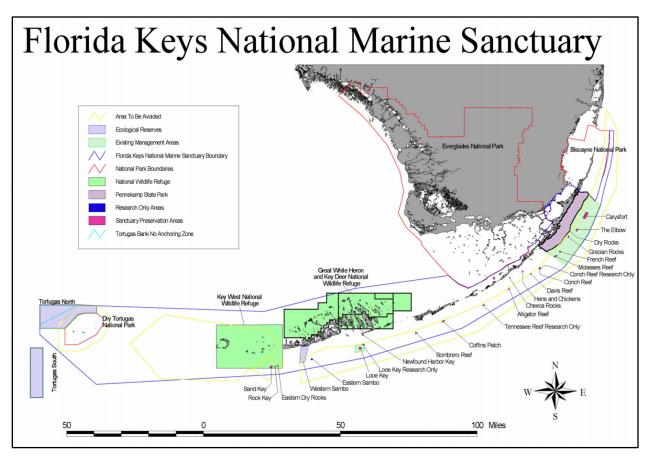
Sanctuary History: The Sanctuary was established in 1990 and incorporates two preexisting sanctuaries, Key Largo (northern Keys) and Looe Key (lower Keys), to protect 2,900 square nautical miles of the Keys. The sanctuary overlaps four national wildlife refuges, six state parks, three state aquatic preserves, and shares boundaries with three national parks. In addition, the Florida Keys are home to the world's third-largest barrier coral reef, extensive seagrass beds, mangrove islands, and more than 6,000 species of marine life including listed species. It also has extensive maritime archaeological resources such as shipwrecks, anchors, cannons and glassware.

Sanctuary Management Plan: A management plan, implemented in 1997, focused on 10 specific action plans and designated five types of marine zones to "reduce pressures in heavily used areas, protect critical habitats and species, and reduce user conflicts". <u>Revised in 2007</u>, the plan includes the accomplishments of those implementation strategies, and provides new information regarding the Sanctuary management strategies.

Other Applicable Laws: The Florida Keys National Marine Sanctuary is classified as "Special Waters", a subset of the Outstanding Florida Waters designation [(Section 403.061(27) Florida Statutes - FDEP)], and the entire sanctuary is also considered a Habitat Area of Particular Concern (HAPC) by NOAA's Regional Fishery Management Council. HAPCs are specific subsets of Essential Fish Habitat (EFH) [50 CFR 600.815(a)(8)], in this case it is designated to protect the ecological role the Sanctuary provides in the life cycles of federally managed fish species. In addition, the Sanctuary's rich habitats (seagrass beds, mangrove swamps, coral reefs) serve as Essential Fish Habitat for numerous federally-managed fish species. The Sanctuary further provides important and/or critical habitat for listed species such as the West Indian manatee, sea turtles, the American crocodile, and corals (boulder star coral, lobed star coral, mountainous star coral, pillar coral, rough cactus coral, elkhorn and staghorn).

Sanctuary Boundaries: The Sanctuary boundary encompasses a vast area of coastal waters and submerged land extending southward on the Atlantic Ocean side of the Keys, from the northeastern-most point of Biscayne National Park along the approximate 300-foot isobath for over 220 nautical miles to Dry Tortugas National Park. The boundary extends more than 10 nautical miles to the west of the Park boundary, where it turns north and east. The northern boundary of the Sanctuary extends to the east where it intersects the boundary of the Everglades National Park. The Sanctuary waters on the north side of the Keys encompass a large area of the Gulf of Mexico and western Florida Bay. The boundary follows the Everglades National Park boundary and continues along the western shore of Manatee Bay, Barnes Sound, and Card Sound. The boundary then follows the southern boundary of Biscayne National Park and up its eastern boundary along the reef tract until its northeastern-most point. You can find the Sanctuary boundaries in several

locations including: FDOT's Environmental Screening Tool (EST), Florida Keys National Marine Sanctuary Map Library, and in marine boat charts.



3. AGENCY CONSULTATION

Responsible Agency(s): ONMS is responsible for implementing the regulations of the Sanctuary Act, safeguarding resources within its boundaries, and evaluating any proposed activities. Permits are typically issued by the Sanctuary superintendents. To see the procedure and criteria under which the ONMS will issue permits, go to 15 CFR Part 922.

Federal Nexus for Consultation: ONMS staff will initiate any actions required to comply with NEPA, as well as other laws, regulations and policies. ONMS will not issue permits until NEPA requirements are addressed and may affect project schedules.

Demonstrate Avoidance, Minimization, and Mitigation: The primary issue for the Sanctuary is the protection of coral. FDOT must demonstrate that it is making all efforts to avoid, minimize and mitigate impacts to coral including modifying design plans, altering construction methodology, leaving piles with coral in place, and in some cases relocating corals. A benthic survey would be required to determine presence of coral and other benthic resources.

Timeframes for Consultation and Permitting: Permit applications must be submitted at least thirty (30) calendar days in advance of the permit clear date to allow time for evaluation and processing. Environmentally sensitive requests which may require ONMS to undertake certain NEPA or consultation requirements should be submitted at least ninety (90) calendar days in advance, <u>if not sooner</u>. These dates are for more common types of impacts. If your project has more complex issues or larger resource impacts additional time may be required. Applications that require ONMS to prepare an environmental impact statement prior to issuance will require at least twelve months to process. To expedite processing, contact the appropriate sanctuary staff in advance of submitting a formal application (pre-application meeting) to discuss any questions or issues.

4. PERMITTING

Prohibited Activities: Any work below the surface of the water including such things as dredging; detonating explosives below the surface of the water; drilling the seabed; lowering, laying, positioning or raising any type of seabed cable or cable-laying device; and, discharging waste material into the water. A complete list of prohibited activities can be found in the National Marine Sanctuary Program Regulations, 15 CFR Part 922.43 and Part 922.61.

Activities Authorized by Permit: Regulations depend on how the proposed impact area within the Sanctuary has been categorized or zoned. Permitting, certification, notification and review processes allow certain activities that are otherwise prohibited to take place

under carefully controlled circumstances. Early consultation is recommended to identify what activities will be permitted and what those impacts could mean in terms of design, budget and schedule.

Permit Fees: The NMSA allows the Office of National Marine Sanctuaries (ONMS) to assess and collect fees for permits. The Sanctuary determines the fee amount by calculating the costs expected to be incurred and determines a fair market value of the Sanctuary's resource.

5. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review of Commitments: Existing FDOT commitments can be found within the Commitment Module in ProjectSuite. If additional commitments are identified, they can be added into the module. Coordination should be conducted with your specific FDOT District Environmental Management Office, Specifications Office, the Design PM, and the Construction Project Administrator to ensure the proper timing of all preconstruction activities. In addition, Sanctuary issues can be discussed at the construction kick-off meeting.

Review all environmental permits for Special Conditions related to the Sanctuary and corals. Make sure construction personnel have copies. Be certain to strictly follow conditions.

Prior to Construction: Advise personnel of environmental commitments, permit conditions, monitoring activities, coral protections, and other Sanctuary requirements.

6. TIPS

Tips: In coordination with FDOT's Office of Environmental Management (OEM) or District Environmental Management Office (DEMO), reach out to your NMFS ETAT representative to informally discuss the corals/listed species, Habitat Area of Particular Concern (HAPC), and EFH consultations, and what types of avoidance and minimization activities NMFS might recommend. HAPC are a subset of EFH that exhibit one or more of the following traits: rare, stressed by development, provide important ecological functions for federally managed species, or are especially vulnerable to anthropogenic (or human impact) degradation. HAPC can cover a specific location (a bank or ledge, spawning location) or cover habitat that is found at many locations (e.g., coral, fish nurseries, etc.).

Early internal coordination between DEMO and Design will be necessary to identify avoidance and minimization efforts for the Sanctuary, budget funding, and to avoid scheduling issues.

Coordination is required with ONMS but may only necessitate a letter to file from the Sanctuary acknowledging coordination and a *no effect* determination.

7. **RESOURCES**

Web Resources*

- Florida Department of Environmental Protections Outstanding Florida Waters Program <u>https://floridadep.gov/dear/water-quality-standards/content/outstanding-florida-waters</u>
- Florida Keys National Marine Sanctuary Management Plan https://floridakeys.noaa.gov/mgmtplans/welcome.html
- Florida Keys National Marine Sanctuary and Protection Act <u>https://floridakeys.noaa.gov/about/fknmsp_act.html</u>
- Instructions for Submitting Applications for National Marine Sanctuary Permits & Authorizations
 <u>https://sanctuaries.noaa.gov/management/permits/</u>
- National Marine Sanctuaries Permitting FAQs
 <u>https://sanctuaries.noaa.gov/management/permits/welcome.html</u>
- National Marine Sanctuary Program Regulations <u>https://www.ecfr.gov/cgi-bin/text-idx?SID=675e7b9b26832bc4856f27eea830e77f&node=pt15.3.922&rgn=div5</u>
- NOAA's Habitat Areas of Particular Concern https://www.fisheries.noaa.gov/news/habitat-areas-particular-concern-within-essential-fish-habitat

Lead Specialist(s) for Agencies: Please direct questions to Joanne Delaney, FKNMS Resource Protection and Permit Coordinator, at Joanne.Delaney@noaa.gov or (978) 471-9653.

Publications:

• Florida Keys National Marine Sanctuary Science Publications are listed at:

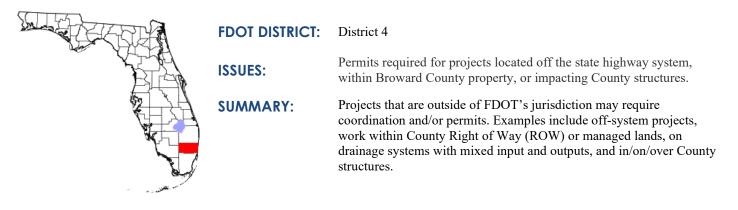
https://floridakeys.noaa.gov/scipublications/welcome.html?s=science

APPENDIX 3j Broward County Permitting

Broward County Permitting



Environmental Protection and Growth Management Department



1. RESILIENT ENVIRONMENT DEPARTMENT

Broward County Resilient Environment Department: Broward County's Resilient Environment Department oversees environmental permitting. The Department is made up of several divisions including Environmental Permitting Division; Natural Resources Division, Resilient Broward Division and Urban Planning Division..

Mission: The mission of the Resilient Environment Department is to further the resilience of individuals, built environment, natural resources and economy of Broward County, by providing for climate mitigation and adaptation planning, natural resource planning, management and protection, planning for appropriate land use patterns and housing mix, enforcing environmental, development and construction regulations, animal care protection and adoption services and providing for consumer protection.

Permitting: Section 335.02(4), F.S., provides that FDOT is not subject to County regulations on the State Highway System and therefore is not required to obtain local permits. However, there are times when FDOT is working on County roads, properties, or structures which would require coordination and/or permitting. For specific questions, please consult with the FDOT Office of General Counsel to receive guidance.

2. BROWARD COUNTY PERMITTING/LICENSES

The County authorizes licenses, which act as permits, for the protection of water, wetlands, and trees. These resources are protected through a series of codes/regulations for surface water management systems, domestic wastewater discharges, non-domestic wastewater discharges, non-point source pollution, dredging projects, wetlands, docks/seawalls, and the removal and protection of trees.

Aquatic and Wetlands Resources Program: Contact this program if your project is proposing to repair or construct a seawall, excavate or fill a surface water area, clear vegetation from or place fill on property, and/or obtain a state permit for docks, seawalls or wetland impacts.

Surface Water Management Program: Contact this program if you want to construct or modify a storm water system, obtain an Environmental Resource Permit, schedule a construction site inspection, and/or renew a surface water management license. The following information is available as it relates to surface water management:

All applicable forms, applications, guides and checklists can be found here: Forms (broward.org)

Tree Removal and Tree Relocation License: A license is required for the removal or relocation of trees, except for nuisance and exotic trees. In order to remove or relocate trees, the removal and relocation must be justified, and either relocation or replacement of trees must take place.

[•]

In addition, the County requires tree protection from construction activities to ensure that trees are not damaged. These include the installation and maintenance of highly visible tree protection barriers and conducting onsite pre-construction meetings to go over tree protection related issues. If impacts are unavoidable and new trees cannot be planted, then payment can be made to the County Tree Preservation Trust Fund. To learn more, go to the County's Tree Preservation Program - Chapter 27 Article XIV of the Broward County Pollution Control Code, titled "Tree Preservation and Abuse Ordinance".

https://library.municode.com/fl/broward_county/codes/code_of_ordinances?nodeId=PTIICOOR_CH27POCO_ARTXIVTRPRABOR

Mangrove Trimming: Due to their ecological importance and storm protection benefits, mangroves are designated as protected under State regulations concerning removal and trimming. In an effort to simplify the process, the Legislature passed legislation in 1995, amended in 1996, titled the <u>Mangrove Protection Rule</u>, Section 403.9321 through 403.9333 Florida Statutes. The Florida Department of Environmental Protection (FDEP) coordinates the implementation of the Rule in conjunction with <u>local governments</u>, such as Broward County, that are designated to act as the state's local representatives. To learn more, go to:

http://www.broward.org/Environment/TreePreservation/Pages/MangroveTrimming.aspx

Environmental Inquiry and Resources System – ENVIROS

The County's ENVIROS system provides information on environmental permits, licenses and regulatory enforcement. To see examples of license applications and licenses go to:

https://dpep.broward.org/Enviros/

3. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review all Broward County Licenses for Special Conditions, provisions, monitoring requirements, and other specific requirements. Make sure construction personnel have copies. Be certain to strictly follow conditions.

Prior to Construction: Advise personnel of license Special Conditions, permit provisions, monitoring activities, and other Broward County requirements.

4. TIPS

Tips: It is beneficial to coordinate with Broward County early so that they are aware of the project activities and can address any questions. County staff are a good resource and can provide local knowledge and help avoid any planning inconsistencies. Schedule a pre-application meeting with Broward County in order to assess the need for a permit(s) and the correct forms that will be required.

5. **RESOURCES**

Web Resources*

- Broward County Resilient Environment Department
 <u>https://www.broward.org/EnvironmentAndGrowth/pages/default.aspx</u>
- Broward County Environmental Inquiry and Resource System (ENVIROS) <u>https://dpep.broward.org/Enviros/</u>
- Broward County Geographic Information System with interactive Maps
 <u>https://bcgis.broward.org/</u>
- County's Natural Resources Division
 <u>http://www.broward.org/naturalresources/Pages/Default.aspx</u>
- County's Urban Planning Division
 <u>http://www.broward.org/Planning/Pages/Default.aspx</u>
- County's Environmental Permitting Division
 <u>http://www.broward.org/Environment/Pages/Default.aspx</u>
- County's Water Programs Section <u>https://www.broward.org/Environment/WaterPrograms/Pages/WaterPrograms.aspx</u> Operating Agreements https://floridadep.gov/ogc/ogc/content/operating-agreements#localprograms

Broward County – Contact Information: Resilient Environment Department

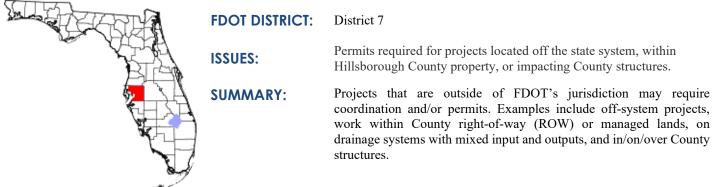
115 South Andrews Avenue

APPENDIX 3k Hillsborough County Permitting

Hillsborough County Permitting

Environmental Protection Commission





1. HILLSBOROUGH COUNTY, ENVIRONMENTAL PROTECTION COMMISSION

Hillsboro County, Environmental Protection Commission (EPC): The Hillsborough County Environmental Protection Commission was created by the Florida Legislature in 1967. The agency's name and mission are reflected in the Hillsborough County Environmental Protection Act (EPC Act), Chapter 84-446, Laws of Florida. The EPC is a unique local environmental agency in Florida, as it is an independent and separate local government, not a department within Hillsborough County. The EPC Act gives the EPC the authority to adopt specific rules that govern activities which cause or may cause pollution in Hillsborough County. There are currently 15 rules in the EPC Act. In addition to its own rules, the EPC has authority to administer other regulatory programs for local, state, and federal agencies through agreements, delegations, and contracts. Examples of delegations that EPC administers on behalf of another agency within Hillsborough County are Tampa Port Authority (TPA) minor works permits (MWP), Florida Department of Environmental Protection (FDEP) wastewater regulation, FDEP air regulation, FDEP mangrove regulation, and FDEP brownfields program.

Mission: To provide and maintain for the citizens and visitors of Hillsborough County standards which will insure the purity of all waters and soils consistent with public health and public enjoyment thereof, the propagation and protection of wildlife, birds, game, fish, and other aquatic life, atmospheric purity and freedom of the air from contaminants or synergistic agents injurious to human, plant, or animal life, and freedom from excessive and unnecessary noise which unreasonably interferes with the comfortable enjoyment of life or property or the conduct of business.

Permitting: Section 335.02(4), F.S., provides that FDOT is not subject to County regulations on the State Highway System and therefore is not required to obtain local permits. However, there are times when FDOT is working on county or municipal roads which may require the municipality and FDOT to be co-applicants. For specific questions, please consult with the FDOT Office of General Counsel to receive guidance.

2. HILLSBOROUGH COUNTY, EPC WETLANDS MANAGEMENT DIVISION PERMITS

Wetlands Management Division: Authorization from the Wetlands Management Division is required for any land alteration (including the removal of vegetation), surface water management or any type of construction activity, as defined in Section 1-11.02(1)(b), Rules of the EPC and adopted Basis of Review for Authorization of Activities Pursuant to Chapter 1-11 Wetlands, in a wetland or other surface water.

Delineation/Surveys: Prior to conducting any activity involving a wetland or other surface water, a wetland delineation must be conducted in accordance with Sections 62-340.300, 62-340.400, 62-340.500, 62-340.550, and 62-340.600, F.A.C. providing the statewide method for delineating wetlands in Florida, per Section 1-11.04, Rules of the EPC. To request a delineation, an **Application to Perform Delineation of Wetlands and Other Surface Waters (Form WDR30)** must be completed and submitted to EPC. To submit WDR30 Form online or download a PDF version, go to: https://fs2.formsite.com/epcinfo/pubWDR30/index.html. Once the wetlands or other surface waters have been delineated by EPC staff, a Florida registered land surveyor must render the line(s) into a Special Purpose Wetland Survey to be submitted to EPC staff for review and formal approval. After approval, the jurisdictional line is valid for 5 years. The jurisdictional line can then be incorporated into the development of a site plan or used in the buyer's determination to purchase new real estate. The jurisdictional line will aid in the planning of the property with emphasis on avoiding impacts to any on-site jurisdictional area(s).

Wetland Impacts/Mitigation: Chapter 1-11, Rules of the EPC and Chapter III of the adopted Basis of Review, prohibits wetland and other surface water impacts unless they are necessary for reasonable use of the property. "Reasonable Use" is defined in Section 3.2.1 of the adopted Basis of Review as an actual, present use or activity on a parcel of real property or such reasonably foreseeable, non-speculative land uses which are suitable for the subject parcel of property, and which are compatible with adjacent land uses. To obtain authorization from EPC to impact a wetland or other surface water, the applicant will need to seek approval for the impacts by submitting to EPC a **Wetland Impact/Mitigation Proposal** and the appropriate review fee, as provided in Chapter 1-6, Rules of the EPC, in which the applicant will need to demonstrate how the impacts are a <u>reasonable use</u> of the property and how <u>adequate protection</u> will be met in defining how the proposed adverse impacts will be addressed. If mitigation is proposed, a Uniform Mitigation Assessment Method (UMAM), per Chapter 62-345, F.A.C., must be performed. See Chapter 1-11, Rules of the EPC and Chapter III of the adopted Basis of Review for more details on what should be included in the proposal. A pre-application meeting with EPC Wetlands Management Division is always advised when planning to impact wetlands.

Mangrove Impacts: FDEP has delegated its authority to the EPC for the regulation of trimming and alteration of mangroves in Hillsborough County. The Mangrove Rule, Chapter 1-14, EPC Act, provides guidelines for these activities in Hillsborough County including permit requirements, exemptions and qualifications for professional mangrove trimmers. For more details, go to: http://www.epchc.org/home/showdocument?id=438

Miscellaneous Activities in Wetlands: Pursuant to Section 1-11.09(1)(c), Rules of the EPC, Miscellaneous Activities in Wetlands (MAIW) are those activities that constitute development under Section 1-11.02(2)(b) yet are considered to have minor impact on wetland or other surface water functions. Applications for authorization of these types of impacts will be reviewed pursuant to Section 1-11.10, Rules of the EPC. Applicants do not need to demonstrate that the impact is necessary for reasonable use of a property, but the impacts must be minimized to the greatest extent practicable and shall be conducted, located, designed, and/or constructed so that they cause the least environmentally adverse impact possible. Mitigation pursuant to Section 1-11.08 is not necessary for activities that qualify under Section 1-11.10, Rules of the EPC but the approval may include conditions to offset adverse impacts, such as replanting to ensure erosion control or ensure the area is properly re-vegetated. Eligible MAIW impacts include but are not limited to the following activities: Nuisance Vegetation Control, Swimming Access, Mulched Paths, Mowing, Boat Ramps, Fences, Elevated Boardwalks, Docks, and Shoreline Stabilization. To obtain authorization from EPC for Miscellaneous Activities in Wetlands, the applicant must submit to EPC an **Application to Perform Miscellaneous Activities in Wetlands (Form MAIW20)**. To submit MAIW20 Form online or download a PDF version, go to: https://fs2.formsite.com/epcinfo/pubMAIW20/index.html.

Exemptions: Some activities in wetlands and other surface waters in Hillsborough County may be exempt from the application of Chapter 1-11 Wetlands, Rules of the EPC. For details on exempt activities, refer to Section 1-11.11 of the Rules of the EPC. If the proposed activity does qualify for an exemption, a **Notice of Exempt Activities in Wetlands (Form WEA10)** must be submitted to EPC. To submit WEA10 Form online or download a PDF version, go to: <u>https://fs2.formsite.com/epcinfo/pubWEA10/index.html</u>.

3. **REVIEW TIMEFRAMES**

Review is contingent on when the EPC receives a complete application and submittal of any applicable fee. The Wetlands Management Division has internal timeframes for in-house reviews:

- Field Delineations: Wetland delineations must be initiated within 30 days of receipt of a complete application.
- Wetland Impact & Mitigation Proposals: Within 30 days of receipt of a complete application, staff will issue comments either through an Executive Director's approval letter or a request for additional information. Within those 30 days, a mitigation committee meeting involving the applicant may be scheduled if staff determines that more information is needed to approve the proposal. At the end of the meeting, the applicant will receive a written summary of all information needed to allow staff to finalize a recommendation to the Executive Director.
- Miscellaneous Activities in Wetlands: A determination will be issued within 30 days of the receipt of a complete application.
- Noticed Exemptions: A default approval is given if there is no agency response within 30 days of receipt of a complete application. In all cases, EPC will strive to provide a written response within the 30-day timeframe.

4. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review all Hillsborough County permits for Special Conditions, provisions, monitoring requirements, and other special requirements. Make sure construction personnel have copies. Be certain to strictly follow conditions.

Prior to Construction: Advise personnel of permit Special Conditions, permit provisions, monitoring activities, and other Hillsborough County requirements.

5. TIPS

Tips: It is beneficial to coordinate with Hillsborough County EPC early so that they are aware of the project activities and can address any questions. County staff are a good resource and can provide local knowledge, and help avoid any planning inconsistencies. Schedule a pre-application meeting with Hillsborough County in order to assess the need for a permit(s) and the correct forms that will be required.

6. **RESOURCES**

Web Resources*

- EPC Permitting Guide http://www.epchc.org/home/showdocument?id=322
- Enabling Act, Rules and Final Orders
 <u>http://www.epchc.org/about/enabling-act-rules-and-final-orders</u>
- Chapter 1-11 Wetlands, Rules of the EPC http://www.epchc.org/home/showdocument?id=416
- EPC Applications and Forms <u>http://www.epchc.org/i-want-to/view-applications-and-forms</u>
- EPC Wetlands Management Division https://www.epchc.org/divisions/wetlands
- EPC Wetlands Management Division Permits & Exemptions
- <u>https://www.epchc.org/divisions/wetlands/permits-exemptions</u>Rules of the EPC Chapter 1-6 Services Fee Schedule <u>http://www.epchc.org/home/showdocument?id=1724</u>
- EPC GIS Maps and Data <u>http://www.epchc.org/i-want-to/view-gis-maps-and-data</u>
- EPC Directors & Organization Charts
 <u>http://www.epchc.org/about/directors-organization-charts</u>

Hillsborough County - Contract Information:

The best contacts at EPC are the Management Division Heads for the separate units including: Air, Waste, Water, and Wetlands. All can be reached by calling 813-627-2600 at the following extensions: Air (extension 1060), Waste (extension 1316), Water (extension 1022), and Wetlands (extension 1239). The EPC also has an Environmental Resource Management Division, Legal Department, and Administration and Finance Division to assist the regulatory divisions and can also be contacted for permitting guidance. However, the four regulatory divisions (i.e., Air, Waste, Water, Wetlands) should be the primary point of contact for pre-application and application meetings.

Staff Directory http://www.epchc.org/about/epc-staff-directory

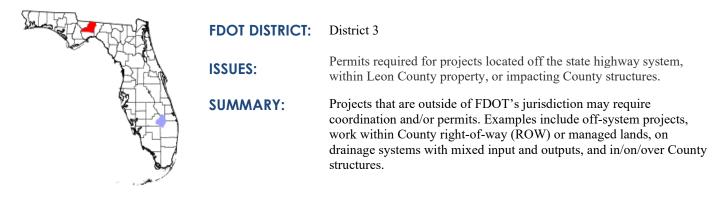
Environmental Protection Commission of Hillsborough County 3629 Queen Palm Dr. Tampa, FL 33619 Phone: (813) 627-2600 Email: <u>epcinfo@epchc.org</u>

APPENDIX 3I Leon County Permitting

Leon County Permitting

Department of Development Support & Environmental Management (DSEM)





1. LEON COUNTY, DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT

Leon County, Development Support and Environmental Management (DSEM): A division within Leon County which provides permitting and processing services related to transportation and development activities. Environmental impacts are regulated under Leon County Code and include such things as stormwater runoff, tree removal and land clearing, grade changes, and paving.

Mission: The primary mission of DSEM is to "ensure the continued vitality of the County, including both the built and natural environments, by promoting awareness and compliance with the Board's adopted Growth Management Regulations".

Permitting: Section 335.02(4), F.S., provides that FDOT is not subject to County regulations on the State Highway System and therefore is not required to obtain local permits. However, there are times when FDOT is working on County roads, properties, or structures which would require coordination and/or permitting. For specific questions, please consult with the FDOT Office of General Counsel to receive guidance.

2. LEON COUNTY PERMITTING

Leon County Permitting: For projects that are on County roads, within County ROW, or on/over/under County structures; a County permit for stormwater management, floodplain, landscaping, tree protection, or tree removal is required as part of any development project, right-of-way (ROW) placement, general permit, or vegetative management permit. Off-system projects will require a permit application, stormwater permit components, and environmental analysis. There are several permit types that are based on the scope of work. Most FDOT projects will either fall under a General Utility Permit or Short Form permit.

Municipal code: https://library.municode.com/fl/leon_county/codes/code_of_ordinances.

Note that Leon County also requires concurrent review for project impacts to species such as: Gopher Tortoise (Gopherus polyphemus) and Bent Golden Aster (Pityopsis flexuosa).

Leon County Electronic Application Process: Leon County has an electronic permit application process on their website. Offsystem projects will have to provide the necessary application form and environmental analysis documentation for review. All necessary permit application forms are provided on the County's website at: https://cms.leoncountyfl.gov/dsem/Divisions/Environmental-Services/Applications

Permit Application Documentation: The permit application and supporting materials are dependent upon the size of the project. Minor projects will require the Short Form Application B, while larger projects will require the Standard Stormwater Application. All projects require a statement describing the intent and scope of the project, a site plan showing grading, contours, and erosion controls, and any engineering calculations to support the project. A Natural Features Inventory (NFI) is also required to identify all sensitive features on a project site. An Environmental Impact Analysis will be completed after the NFI has been approved.

Permit Application Submittal: FDOT should initiate the permit application process concurrent with the State's Environmental Resource Permit (ERP) and United States Army Corps of Engineers (USACE) pre-application process. Timeframes for approval vary, from 7 days for tree removal, 20 days for Natural Features Inventory, 21 days for Short Form B, and 53 days for the Standard Form Application.

3. LEON COUNTY PERMIT APPLICATION FORMS

All application forms can be accessed from the County website along with supporting information and process guidelines at the following website:

https://cms.leoncountyfl.gov/dsem/Divisions/Environmental-Services/Applications.

Permit application forms commonly used:

• Short Form B – Low Intensity: Projects that do not have a significant impact on stormwater run-off. Typically considered activities that are temporary in nature and have very little or no impervious area associated with them. Examples include installation of buried service lines for water, sewer, gas, power, and communication services within the road ROW; the removal of impervious area and replacing it with pervious area; storm drain system or channel improvements; and minor roadway shoulder, ditch and stormwater facility activities necessary to meet current code requirements not covered by a general permit. Please see the Environmental Permitting Overview and Fee Schedule attached to the Environmental Management Permit Application (E-3):

https://cms.leoncountyfl.gov/dsem/Divisions/Environmental-Services/Applications

• Short Form B – High Intensity: Projects which have significant impact on stormwater runoff. Typically, projects that either have an individual on-site stormwater management facility or a master stormwater management facility. Please see the Environmental Permitting Overview and Fee Schedule attached to the Environmental Management Permit Application (E-3):

https://cms.leoncountyfl.gov/dsem/Divisions/Environmental-Services/Applications

• Stormwater – Standard Application: Projects which have significant impact on stormwater runoff. Typically, involve projects that either have an individual on-site stormwater management facility or a master stormwater management facility. These projects are required to complete the site plan review process. To learn more, go to:

https://cms.leoncountyfl.gov/Portals/57/docs/Environmental/Operating%20Permit%20App_IA%209-20-22.pdf?ver=iBaubqGWFfIWegZEZ98CKg%3d%3d

• Natural Features Inventory (NFI): An identification of environmentally significant features on a parcel proposed for development. These features include wetlands, waterbodies, watercourses, floodplain, native forest, listed species and their critical habitat. The NFI also identifies regulatory issues such as tree canopy roads, stormwater discharge availability, and special development zones, which all may have an impact on the development potential. NFI's fall into 3 categories: NFI No Impact-where projects are limited in size and contain no environmentally sensitive features on site; NFI without floodplain, and NFI with floodplain. NFI is required as a part of Short Form B and Standard Form Permits. The NFI is prepared by an environmental professional and submitted for review by a County Biologist prior to submitting an environmental permit application. County staff have 15 days to complete the review. Approved NFI's are valid for 3 years. To learn more, go to:

https://cms.leoncountyfl.gov/Portals/57/docs/2023/NFI_Standard%20-%20Rev%203-22-23.pdf?ver=F0J8KffKAVxTB9dS3ccVhQ%3d%3d

• Environmental Impact Analysis: An analysis to address the specific impacts of any proposed development activity. These are regulated under County Code and include stormwater runoff, tree removal, land clearing, grade changes, and paving. The EIA addresses how the applicant plans to mitigate for the environmental impacts caused by the proposed project. It includes the site plan and all environmentally sensitive features identified in the NFI. The EIA application is submitted after the completion and approval of the NFI. It is reviewed by members of the Environmental Compliance Staff, who have 15 days to either approve the project or request additional information. To learn more, got to:

https://cms.leoncountyfl.gov/Portals/57/docs/Customer_Engagement-Services/documents/EIA_IA.pdf?ver=2019-08-28-092530-137

• **Tree Removal Permit:** A permit is required for removing protected trees within the County. Tree removal permits for FDOT are more frequently issued in conjunction with other environmental permits required for the development of a property. Requirements are outlines in the <u>Environmental Management Act</u>, Chapter 10, Land Development Code (LDC) of the Leon County Code of Laws. To learn more, go to:

https://cms.leoncountyfl.gov/Portals/57/docs/Customer_Engagement-Services/documents/VegMgmtPlan-TreeRemPermit_IA.pdf?ver=2019-08-28-092732-543

4. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review all Leon County Permits for Special Conditions, provisions, monitoring requirements, and other specific requirements. Make sure construction personnel have copies. Be certain to strictly follow conditions.

Prior to Construction: Advise personnel of Special Conditions, permit provisions, monitoring activities, and other Leon County requirements.

5. TIPS

Tips: It is beneficial to coordinate with Leon County early so that they are aware of project activities and can address any questions. County staff are a good resource and provide local knowledge, and help avoid any planning inconsistencies. Schedule a pre-application meeting with Leon County in order to assess the need for a permit(s) and the correct forms that will be required.

Utilize the electronic submittal option and document upload feature in the permit portal to transmit the applications and supporting materials directly to Environmental Review staff. The portal is located at: <u>http://www.tlcpermits.org/</u>.

6. **RESOURCES**

Web Resources*

- Leon County, Development Support and Environmental Management <u>https://cms.leoncountyfl.gov/dsem/Divisions/Environmental-Services</u>
- Leon County, Code of Ordinance, Chapter 10 Land Development Code <u>https://library.municode.com/fl/leon_county/codes/code_of_ordinances</u>

Leon County - Contact Information:

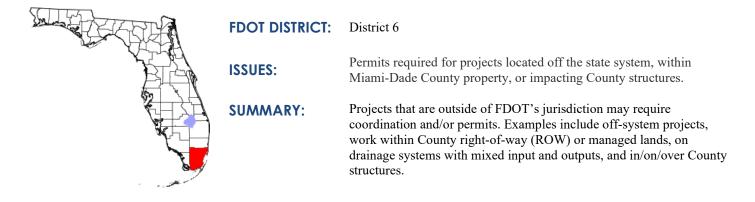
Nawfal R. Ezzagaghi, P.E. Director of Environmental Services, Development Support and Environmental Management Office 435 N. Macomb Street, Renaissance Center, 2nd Floor Tallahassee, FL 32301 (850) 606-1328 EzzagaghiN@leoncountyfl.gov

APPENDIX 3m Miami-Dade County Permitting

Miami-Dade County Permitting

Division of Environmental Resources Management (DERM)





1. MIAMI-DADE COUNTY, DIVISION OF ENVIRONMENTAL RESOURCES MANAGEMENT

Miami-Dade County, Division of Environmental Resources Management (DERM): The Department of Environmental Resources Management was created by the Miami-Dade County Board of County Commissioners to regulate environmental impacts within the county. In 2012, DERM, and the County's Building, Consumer Services, Economic and Business Development, and Planning and Zoning units merged to become the Miami-Dade County Department of Regulatory and Economic Resources (RER), and created the Division of Environmental Resources Management (DERM).

Mission: To implement, monitor, educate, restore, regulate, manage, and protect water quality, drinking water supply, air quality and natural resources.

Permitting: Section 335.02(4), F.S., provides that FDOT is not subject to County regulations on the State Highway System and therefore is not required to obtain local permits. However, there are times when FDOT is working on County roads, property, or structures which would require coordination and/or permitting. For specific questions, please consult with FDOT Office of General Counsel to receive guidance.

2. MIAMI-DADE COUNTY PERMITTING

Class I Permit – A Class I Permit may be required when working in, on, over, or upon tidal waters or coastal wetlands (seagrass beds, mangroves, and coral and sponge communities) within Miami-Dade County for off-system work, work on land owned or managed by the county, or on county structures. For more detailed information go to: <u>https://www.miamidade.gov/permits/class-1.asp</u>.

Class II Permit – A Class II Permit may be required when FDOT is constructing a drainage system with an overflow or outfall in, on or upon any water body within Miami-Dade County. FDOT, or its contractor, is responsible for acquiring Class II permits for the construction of outfalls to waterbodies of Miami-Dade County. Drainage canals are classified as "surface waters" and fall under the jurisdiction of the South Florida Water Management District (SFWMD), U.S. Army Corps of Engineers (USACE), and Miami-Dade County. For more information go to: <u>https://www.miamidade.gov/permits/class-2.asp</u>.

Class III Permit – A Class III Permit may be required when constructing within county owned or controlled canal right-of-way, reservation, or easement. FDOT, or its contractor, is responsible for acquiring this permit for projects that impact county ROW. For more information go to: <u>https://www.miamidade.gov/permits/class-3.asp</u>.

Class IV Permit – A Class IV Permit may be required when constructing within freshwater wetlands, areas subject to prolonged periods of inundation or saturation, and/or areas where hydric soils are present. These wetlands are shown on the *Wetland Basins and Areas of Concern Map* below. It is recommended that any property close to the boundary of a wetland or other low lying undeveloped areas receive verification from the Wetlands Permitting Program of Miami-Dade County. For more information go to: https://www.miamidade.gov/permits/class-4.asp.

Class V Permit – A Class V Permit may be required for temporary dewatering or when water is removed from an excavation site. The purpose of this permit is to prevent adverse impacts to adjacent properties and existing waterways, as well as preclude the spread of contamination. FDOT, or its contractor, may be responsible for acquiring dewatering permits during construction. If dewatering was evaluated during design and deemed unnecessary but the contractor still wishes to dewater, the contractor will be responsible for

preparing the application package and is responsible for all associated processing, issuance and extension fees. For more information go to: <u>https://www.miamidade.gov/permits/class-5.asp</u>.

Class VI Permit – A Class VI Permit may be required for the construction of drainage systems to be installed in non-residential projects and/or near contaminated areas and landfills. FDOT, or its contractor, is responsible for acquiring a Class VI Permit for drainage/collection systems and for the installation of a pretreatment facility. This includes "mixed" drainage systems that have both county and FDOT components. For more information go to: <u>https://www.miamidade.gov/permits/class-6.asp</u>.

3. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review all Miami-Dade County permits for Special Conditions, provisions, monitoring requirements, and other specific requirements. Make sure construction personnel have copies. Be certain to strictly follow conditions.

Prior to Construction: Advise personnel of special conditions, permit provisions, monitoring activities, and other Miami-Dade County requirements.

4. TIPS

Tips: It is beneficial to coordinate with Miami-Dade County early so that they are aware of the project activities and can address any questions. County staff are a good resource and can provide local knowledge and help avoid planning inconsistencies. Schedule a pre-application meeting with Miami-Dade County in order to assess the need for a permit(s) and the correct forms that will be required.

5. **RESOURCES**

Web Resources*

- Miami-Dade County Environmental Permitting <u>https://www.miamidade.gov/permits/home.asp?cat=environment</u>
- Miami-Dade County Environmental One Time Permitting
 <u>https://www.miamidade.gov/permits/environmental-one-time.asp</u>
- Miami-Dade County Environmental Plans Review
 <u>https://www.miamidade.gov/permits/plans/environmental-review.asp</u>
- Miami-Dade County Environmental Fees and Citations <u>http://www.miamidade.gov/environment/environmental-fees.asp</u>
- Miami-Dade County Tree Relocation and Removal <u>https://www.miamidade.gov/permits/tree-removal.asp</u>
- Miami-Dade County Natural Forest Community Permit
 <u>https://www.miamidade.gov/permits/natural-forest-community.asp</u>

Miami-Dade County - Contact Information:

The best contacts at DERM are the Division Heads for the separate units including: Coastal, Water Control, Contamination, Comprehensive Everglades Restoration Plan (CERP), and Freshwater Wetlands. All can be reached by calling 305-372-6789.

Environmental Resources Management Overtown Transit Village North 701 NW 1st Court Miami, Florida 33136

Plan Review - West Miami-Dade office Miami-Dade County Permitting and Inspection Center 11805 SW 26th Street Miami, Florida 33175 786-315-2800

Plan Review - Hialeah satellite office

501 Palm Avenue, 2nd Floor Hialeah, Florida 33010 305-492-2004 Phone Directory Brochure - http://www.miamidade.gov/environment/library/brochures/phone-directory.pdf

Division	Phone	Floor
Director's Office, Division of Environmental Resources Management	305-372-6754	4
Air Quality Management (AQMD) Air facilities Air monitoring Air permitting Asbestos 	305-372-6925	2
 Code Coordination & Environmental Initiatives Environmental Planning & Development Outreach (Adopt-a-Tree, Baynanza, Plastic Free 305) Environmental Quality Control Board DERM Directives and Legislative Items Zoning and Platting 	305-372-6764 305- 372-6710	2
Code Enforcement	305-372-6902	6
 Environmental Monitoring & Restoration Division Airport and Contracts Environmental Assessment Environmental Monitoring & Evaluation Laboratory Services Pollution Remediation 	305-372-6700	4
Natural Resources • Coastal Resources • Tree & Forest Resources • Water Control • Wetlands Resources	305-372-6567 305-372-6575 305-372-6574 305-372-6681 305-372-6585	6
Plan Review Services	305-372-6899	2

Pollution Regulation Division	305-372-6600	7
 Environmental Compliance Environmental Evaluations – Delegated Programs Environmental Evaluations – Local Programs Environmental Permitting 		
Records Management	305-372-6677	3
Water Management Division	305-372-6529	5
 Stormwater Planning Stormwater Utility 	305-372-6688	
 Water & Wastewater Division Construction Permitting Water Distribution and Wastewater Collection & Transmission Systems (Engineering, Reporting, Operation, Monitoring and Compliance) Water and Wastewater Treatment Systems including FOG and OSTDS (Engineering, Reporting, Operation, Monitoring and Compliance) 	305-372-6920	7
Water Resources Coordination Division	305-372-6784	2
 Environmentally Endangered Lands Restoration & Enhancement Water Resources 	305-372-6687	6

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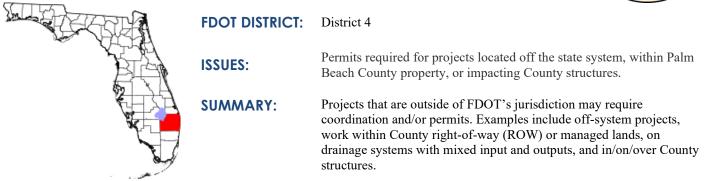
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APPENDIX 3n Palm Beach County Permitting

Palm Beach County Permitting

Environmental Resources Management (ERM)





1. PALM BEACH COUNTY, ENVIRONMENTAL RESOURCES MANAGEMENT

Palm Beach County, Environmental Resources Management (ERM): The Palm Beach County Board of County Commissioners created the Department of Environmental Resources Management on October 1, 1987. ERM works to protect the County's natural resources through environmental assessment, permitting, compliance inspections, and land development review activities to ensure compliance with the County's Unified Land Development Codes (ULDC) and the State of Florida's Administrative Codes (FAC).

Mission: ERM's mission is to establish, maintain, and implement programs for the protection, preservation, and enhancement of the land and water resources.

Permitting: Section 335.02(4), F.S., provides that FDOT is not subject to County regulations on the State Highway System and therefore is not required to obtain local permits. However, there are times when FDOT is working on county roads, property, or structures which would require coordination and/or permitting.

2. PALM BEACH COUNTY PERMITTING

Surface Water Protection: Permits and/or coordination may be required for the following activities:

<u>Stormwater Pollution Prevention Ordinance</u> is administered by ERM to prevent illicit discharges from entering "waters of the United States". The ordinance is applicable to all stormwater systems owned and operated by FDOT in Palm Beach County pursuant to the provisions of any valid joint participation agreement (JPA) entered into between FDOT and Palm Beach County. The Ordinance was adopted under the authority of Article VII, Section 1 of the Florida Constitution, Chapter 125, Florida Statues (F.S), and the Palm Beach County Chapter. "Illicit discharge" means any discharge to the stormwater system that is not composed entirely of stormwater.

Exemptions:

- Discharges permitted pursuant to Chapter 403, F.S., provides that a Water Pollution Operating Permit or Temporary Permit issued by the Florida Department of Environmental Protection (FDEP) is in effect.
- Wastewater discharges permitted by the FDEP pursuant to State administration of the NPDES Program shall also be exempt provided that the permit issued by FDEP remains in effect.
- Discharges associated with dewatering operations which are permitted or approved by the South Florida Water Management District (SFWMD), provided that the permit issued by SFWMD remains in effect, or the dewatering operation follows the conditions of 40E-20.302(2), F.A.C.
- Discharges from stormwater retention or detention facilities in compliance with the conditions of all required Surface Water Management Permits issued under the authority of SFWMD.
- Discharges with valid NPDES Permits for Discharges Associated with Industrial Activities under the authority of EPA.

Projects which require NPDES Construction Activity Permit coverage and discharge to the Palm Beach County MS4, must provide a copy of the Stormwater Pollution Prevention Plan to ERM, prior to construction activities. This is typically the responsibility of FDOT's contractors.

Lake Excavation: Since 1992, ERM has regulated excavation and mining through the Palm Beach County ULDC Article 4, Chapter B, Section 10, Excavation Uses. See Ordinance - <u>https://www.pbcgov.com/uldc/Article4.htm</u> or go to: <u>http://discover.pbcgov.org/erm/PermitsRegulation/Lake-Excavation.aspx</u>.

Exemptions:

- Regulated by a National Pollutant Discharge Elimination System Permit; or
- Regulated by a FDEP industrial wastewater operation permit; or
- Located within an approved residential, commercial, industrial or mixed-use development and functioning as a stormwater management facility pursuant to: a surface water management construction permit issued by the SFWMD; or, a conceptual permit issued by the SFWMD that delineates proposed littoral slopes of the excavated lake(s) conducive for planting; or an applicable Land Development Permit depicting proposed littoral and upland slopes of a mined lake. Note that lakes regulated by ERM larger than 1 acre <u>OR</u> deeper than 6 feet must have a planted littoral area with 5 different species of native aquatic plants covering at least 80% and no more than 10% exotic plants.

Wellfield Protection: A business or entity located within a wellfield protection zone (note that there are 44 regulated wellfields within the County) that stores, uses or sells regulated substances in quantities greater than or equal to 5 gallons of a liquid or 25 pounds of a solid is required to apply for a Wellfield Operating Permit. The application for the permit will specify how the owner intends to comply with the terms of Article 14 Chapter B. In addition, this includes applying pesticides in wellfield zones. To learn more, go to: http://discover.pbcgov.org/erm/PermitsRegulation/Wellfield-Protection.aspx.

Coastal Lighting: Since 1987, ERM has regulated beachfront lighting through the ULDC Article 14.A, Sea Turtle Protection and Sand Preservation Ordinance. A permit from ERM is required when any light source is replaced or installed within the "Sea Turtle Protection Zone" in one of the following beachfront communities: Tequesta, Jupiter Inlet Colony, Jupiter, North Palm Beach, Riviera Beach (Singer Island), Palm Beach Shores, Lake Worth, Lantana, Manalapan, Briny Breezes, and Boynton Beach. To learn more, go to: http://discover.pbcgov.org/erm/PermitsRegulation/Beachfront-Lighting.aspx or

http://discover.pbcgov.org/erm/Publications/BeachfrontLightingJurisdictions.pdf

Native Vegetation/Tree Removal and Protections: ERM regulates native vegetation removal through the ULDC Article 14.C and 14 D which limits unnecessary native vegetation removal, promotes the use of native vegetation, and requires eradication of invasive nonnative vegetation. This includes new construction of a utility; road ROW, and/or projects required to go through the Development Review Process. When native vegetation must be removed, the following actions shall apply: relocate on site, donate offsite, and mitigate (replace). Mitigation shall be native species ranked *Florida Number One* or better according to industry standards and shall be planted as follows: onsite incorporated in the landscape plan; offsite on public lands within the County (parks, schools, libraries, etc.); through voluntary contribution to County's Natural Areas Fund; and, requires acceptance and a clear understanding of vegetation maintenance responsibilities for both parties until the mitigated vegetation is self-sustaining. To learn more, go to: http://discover.pbcgov.org/erm/PermitsRegulation/Native-Vegetation-Removal.aspx.

3. PRE-CONSTRUCTION & CONSTRUCTION COMPLIANCE

Review all Palm Beach County permits for Special Conditions, provisions, monitoring requirements, and other special requirements. Be certain to strictly follow conditions. Make sure construction personnel have copies.

Prior to Construction: Advise personnel of Special Conditions, permit provisions, monitoring activities, and other Palm Beach County requirements.

4. TIPS

Tips: It is beneficial to coordinate with Palm Beach County early so that they are aware of the project activities and can address any questions. County staff are a good resource and can provide local knowledge and help avoid any planning inconsistencies. Schedule a pre-application meeting with Palm Beach County ERM in order to assess the need for a permit(s) and the correct forms that will be required.

5. **RESOURCES**

Web Resources*

- Environmental Resources Management Home Page <u>http://discover.pbcgov.org/erm/Pages/default.aspx</u>
- Environmental Resources Management Publications <u>http://discover.pbcgov.org/erm/Pages/Publications.aspx</u>

- Environmental Resources Management Regulations
 <u>http://discover.pbcgov.org/erm/Pages/Permitting-Regulation.aspx</u>
- What type of tree do you want to cut? <u>https://discover.pbcgov.org/pzb/FAQPages/Zoning-Landscape.aspx</u>
- Surface Water Protection Water Quality & Stormwater Discharges http://discover.pbcgov.org/erm/PermitsRegulation/Surface-Water-Protection.aspx
- Lake Excavation
 <u>http://discover.pbcgov.org/erm/PermitsRegulation/Lake-Excavation.aspx</u>
- Wellfield-Protection
 <u>http://discover.pbcgov.org/erm/PermitsRegulation/Wellfield-Protection.aspx</u>
- Beachfront-Lighting http://discover.pbcgov.org/erm/PermitsRegulation/Beachfront-Lighting.aspx
- Native Vegetation and Tree Removal
 <u>http://discover.pbcgov.org/erm/PermitsRegulation/Native-Vegetation-Removal.aspx</u>

Palm Beach County – Contact Information:

Palm Beach County Board of County Commissioners Environmental Resources Management 2300 North Jog Road, 4th Floor, West Palm Beach, FL 33411 Phone: 561-233-2400 & Email: <u>erm-protect@co.palm-beach.fl.us</u>