FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

U.S. ARMY CORPS OF ENGINEERS

WATER MANAGEMENT DISTRICTS

JOINT APPLICATION FOR:

- **ENVIRONMENTAL RESOURCE PERMIT**
- **AUTHORIZATION TO USE STATE OWNED SUBMERGED LANDS**
- **FEDERAL DREDGE AND FILL PERMIT**

APPLICATION FORM -Table of Contents

**Note: This application form was designed to address may different types of activities. Some of the questions may not be appropriate for your project, However, please answer all questions even if your answer is "N/A".

Instructions For Joint Application

PROCESSING AGENCY/DISTRICT SERVICE CENTERS

The Department of Environmental Protection ("Department" or "DEP") reviews environmental resource permit applications for some types of activities, and the Water Management Districts ("WMDs") review permit applications for others. You must submit your application to the agency which is responsible for reviewing applications for the activity you propose. See Attachment 1, Summary of DEP/WMD Permitting Responsibilities, if you do not know which agency should receive your application. If your application is to be submitted to the St. Johns River Water Management District, submit it to the appropriate service center according to the following table:

Project Location (County)	District Office	
Alachua, Flagler, Marion, Putnam	District Headquarters P.O. Box 1429, Palatka, FL 32178-1429	(386) 329-4500
Baker, Bradford, Clay, Duval, Nassau, St Johns	Jacksonville Service Center 7775 Baymeadows Way, Suite 102 Jacksonville, FL 32256	(904) 730-6270
Lake, Orange, Polk, Seminole, Volusia	Altamonte Springs Service Center 975 Keller Road Altamonte Springs FL 32714	(407) 659-4800
Brevard, Indian River, Okeechobee, Osceola	Palm Bay Service Center 525 Community College Pky. Palm Bay, FL 32909	(321) 984-4940

Applications for Environmental Resource Agricultural System Permits for agricultural surface water management systems must use forms 40C-44.900(1), 40C-44.900(2), or 40C-44.900(3).

COPIES/APPLICATION FEES

Unless otherwise indicated, submit an original signed application form, plus five copies of the form and five complete sets of all the requested drawings and other information to the appropriate DEP or WMD office. Submit the appropriate application fee with your application.

DISTRIBUTION TO THE U. S. ARMY CORPS OF ENGINEERS

When activities are proposed in, on, or over wetlands or other surface waters, a copy of the application will be forwarded to the United States Army Corps of Engineers (ACOE) by the reviewing agency. The ACOE will advise you of any additional information required to obtain a federal dredge and fill permit. It is not necessary for you to submit a separate application to the ACOE. See Attachment 2 to these instructions for lists of the Nationwide and General permits available from the ACOE. The information requested in this application form may be more than required to make a complete application to the ACOE. However, it is useful and essential for subsequent evaluation. Reducing unnecessary paperwork and delays is a continuing ACOE goal.

REQUESTS FOR AUTHORIZATION TO USE SOVEREIGN SUBMERGED STATE LANDS

Requests for authorization to use state owned submerged lands will be processed by the agency reviewing the ERP application, after a title determination has been made by the DEP Division of State Lands. The processing of your ERP application will be expedited if you obtain a Division of State Lands title determination and submit it with your ERP application package. If the reviewing agency cannot clearly determine whether your project is located on sovereign submerged lands, it must ask you to provide a title determination. Title determinations can be obtained by contacting:

Florida Department of Environmental Protection
Division of State Lands
3900 Commonwealth Blvd.
Mail Station 108
Tallahassee, FL 32399 (Phone 904/ 488-8123)

See Attachment 3 to these instructions for an explanation of the authorization to use state lands process.

Attachment 1 to Instructions for Joint Application
Summary of DEP and WMD Permitting Responsibilities

The Department of Environmental Protection ("Department" or "DEP") is responsible for reviewing permit applications for some types of activities. The Water Management Districts ("WMDs") review permit applications for the remaining types. You must submit your permit application to the agency which is responsible for permitting your proposed activity. Below is a summary explaining the activities reviewed by the each agency. This summary covers typical cases; applicants with non-typical situations or who need further clarification should contact the nearest DEP or WMD office.

THE DEPARTMENT is responsible for reviewing permit applications for the following activities:

- Proposed systems contiguous ownership of property of five acres or less, or proposed systems upon state owned submerged lands abutting such property, in which the system serves only one single-family dwelling unit, duplex, triplex, or quadraplex provided the single-family dwelling unit, duplex, triplex, or quadraplex is not part of a larger common plan of development or sale proposed by the applicant. The term "system" means a stormwater management system, dam, impoundment, reservoir, appurtenant work or works, or any combination thereof, including dredged or filled areas. This term includes the construction of docks, seawalls, structures, and all other types of dredging or filling in surface waters and wetlands.

- Projects that also need a waste treatment or management permit from DEP:
  - Solid waste (except certain activities that qualify for general permits)
  - Hazardous waste (except where the storage of hazardous waste is an incidental part of the facility)
  - Domestic wastewater (except for certain applications)
  - Industrial wastewater (except certain activities that qualify for general permits)

- All mining projects (excluding borrow pits).

- Power plants and electrical distribution and transmission lines, including associated facilities.

- Communication cables and lines.

- Natural gas or petroleum exploration, production, and distribution activities and facilities.

  Docking facilities involving the creation of 10 or more new boat slips, including adjacent docking-related development and associated navigational dredging, except where the docking facility and associated navigational dredging is part of a larger plan of other commercial or residential development that has received or requires a permit under Part IV of Chapter 373, F.S. The term "adjacent docking-related development" includes parking areas for the docking facility, dry storage facilities, boat sales and supply facilities, maintenance and repair facilities, associated seafood loading and processing facilities, restaurants, and harbor master and marina administration facilities.

- Activities proposed, in whole or in part, seaward of the coastal construction control line.

- Navigational dredging conducted by governmental entities.

- Seaports and adjacent seaport-related development where the applicant or property owner is a port authority.

- The following activities in wetlands and other surface waters when such activities are not part of a larger plan of development: boat ramps, ski jumps, ski slalom courses, aids to navigation, mooring buoys and fields, piling supported structures which are not physically connected to uplands, estuarine and marine aquaculture facilities, fish attractors, artificial reefs, treasure salvage, and archaeological research or exploration.

- Temporary systems for commercial film productions.

- High speed rail facilities.

- Magnetic levitation demonstration projects.

- Mitigation banks primarily for: mining or power production; governmental solid waste facilities; governmental domestic wastewater facilities; industrial waste facilities; communication cables and lines; natural gas or petroleum exploration activities and facilities; and product pipelines; navigational dredging projects conducted by governmental entities; seaports; and modifications of permits previously issued by the Department.

- Modification of permits issued by the Department. If the permit has been modified, the agency that issued the last modification to the permit shall process the modification. Modifications to Management and Storage of Surface Waters (MSSW) Permits shall be processed by the appropriate Water Management District, except that the Department shall process modifications of MSSW permits for solid waste facilities and mining projects.

<u>THE WMDS ARE RESPONSIBLE FOR REVIEWING PERMIT APPLICATIONS FOR ALL OTHER ACTIVITIES.</u>

Attachment 2 to Instructions for Joint Application
Summary of Activities Typically Authorized by Each Permit Type

These summary lists will assist an applicant in determining what type of permit their project will normally require. These lists are only a brief summary of the various exemptions or permit types and do not contain all of the requirements for each exemption or permit. Applicants unfamiliar with the details of all the requirements which apply to the various exemptions or permit types, or uncertain of how the conditions would apply to a specific situation, should discuss their project with staff of the appropriate reviewing agency before submitting an application.

ENVIRONMENTAL RESOURCE PERMIT EXEMPTIONS

You do not normally need to apply for an Environmental Resource Permit for these activities. If you are uncertain if your specific project meets the conditions for an exemption, contact the agency with jurisdiction in the location where the activity is proposed. Please note that you may still need to obtain authorization from the ACOE for activities that qualify for an ERP exemption, and you should contact the ACOE to determine this.

- The repair or replacement of existing functional pipes or culverts, the purpose of which is the discharge or conveyance of stormwater
- The installation and maintenance of intake and discharge pipes associated with marine bivalve facilities that have a valid industrial wastewater general permit
- The performance of maintenance dredging of existing manmade canals, channels, basins, berths, and intake and discharge structures
- The maintenance of functioning insect control structures, and the maintenance of functioning dikes and functioning irrigation and drainage ditches, including roadway drainage ditches The maintenance of previously-permitted minor silviculture surface water management systems
- The restoration of less than 100 feet in length of existing insect control impoundment dikes and the connection of such impoundments to tidally-influenced waters
- The installation, replacement or repair of mooring pilings and dolphins associated with private docking facilities
- The installation of private docks of 1000 square feet or less of surface area over wetlands or other surface waters or 500 square feet or less of surface area over wetlands or other surface waters for docks which are located in Outstanding Florida Waters
- Construction of private docks in artificially-created waterways where construction will not violate water quality standards, impede navigation, or adversely affect flood control
- The replacement or repair of existing docks and mooring piles

- The installation and maintenance to design specifications of boat ramps on artificial bodies of water, or the installation and maintenance to design specifications of boat ramps open to the public in any wetlands or other surface waters

- Construction of seawalls or riprap in artificially-created waterways

- The restoration of a seawall or riprap at its previous location or within one foot waterward of its previous location

- The construction of vertical seawalls in wetlands or other surface waters and the construction of riprap revetments, where such construction adjoins at both ends existing seawalls or riprap, follows a continuous and uniform construction line with the existing seawalls or riprap, is no more than 150 feet in length

- The installation of subaqueous transmission and distribution lines laid on, or embedded in, the bottoms of wetlands or other surface waters

- The replacement or repair of subaqueous transmission and distribution lines laid on, or embedded in, the bottoms of wetlands or other surface waters

- Activities necessary to preserve, restore, repair, remove, or replace an existing communication or power pole or line

- Installation, removal, and replacement of utility poles that support telephone or communication cable lines, or electric distribution lines of 35 kV or less

- The replacement or repair of existing open-trestle foot bridges and vehicular bridges that are 100 feet or less in length and two lanes or less in width

- Construction or maintenance of culverted driveways or roadway crossings and bridges of artificial waterways

- The installation of aids to navigation

- The use of rotenone, by Florida Game and Fresh Water Fish Commission

- Construction of fresh water fish attractions by Florida Game and Fresh Water Fish Commission, U.S. Forest Service, and county and municipal governments

- Installation of piling support structures associated with water quality testing or monitoring equipment by the Department or the Water Management Districts

NOTICED GENERAL ENVIRONMENTAL RESOURCE PERMIT

Listed below are activities which may qualify for a Noticed General Permit. Applicants who believe their projects might qualify should discuss the proposed project with the agency with jurisdiction in the location where the activity is proposed; obtain a copy of the applicable rule sections where the detailed terms, conditions, limitations and restrictions are listed; and then file

an application. DEP rules are set forth in chapter, 62-341 F.A.C, SJRWMD rules are found in Chapter 40C-400, F.A.C.

- General Permit for installation, alteration or maintenance of boat ramps and associated accessory docks (section 62-341.417, F.A.C. or 40C-400.417, F.A.C.)

- General Permit for certain piers and associated structures (section 62-341.427, F.A.C. or 40C-400.427, F.A.C.)

- General Permit for installation of riprap (section 62-341.431, F.A.C. or 40C-400.431, F.A.C.)

- General Permit for installation of fences (section 62-341.437, F.A.C. or 40C-400.437, F.A.C.)

- General Permit for the construction or maintenance of culverted driveway or roadway crossings and bridges of artificial waterways (section 62-341.439, F.A.C. or 40C-400.439, F.A.C.)

- General Permit to the Florida Department of Transportation, counties and municipalities, for minor bridge alteration, replacement, maintenance and operation (section 62-341.443, F.A.C. or 40C-400.443, F.A.C.)

- General Permit to the Florida Department of Transportation, counties and municipalities for minor activities within existing rights-of-way or easements (section 62-341.447, F.A.C. or 40C-400.447, F.A.C.)

- General Permit for installation, maintenance, repair, and removal of underground cable, conduit, or pipeline (section 62-341.453, F.A.C. or 40C-400.453, F.A.C.)

- General Permit for the construction of aerial pipeline, cable, and conduit crossings of certain waters (section 62-341.455, F.A.C. or 40C-400.455, F.A.C.)

- General Permit for subaqueous utility crossings of artificial waterways (section 62-341.457, F.A.C. or 40C-400.457, F.A.C.)

- General Permit for the construction and operation of culverts and associated water control structures in mosquito control impoundments by governmental mosquito control agencies (section 62-341.463, F.A.C. or 40C-400.463 F.A.C.)

- General Permit for breaching mosquito control impoundments by governmental mosquito control agencies (section 62-341.467, F.A.C. or 40C-400.467 ,F.A.C.)

- General Permit for minor activities (section 62-341.475 or 40C-400.475, F.A.C.)

- General Permit to the Department of Environmental Protection to conduct minor activities (section 40C-400.483, F.A.C.)

- General Permit to the DEP for environmental restoration or enhancement (section 40C-400.485, F.A.C.)

- General Permit to the DEP to change operating schedules for water control structures (section 40C-400, 487.F.A.C.)

- General Permit for minor silvicultural (forestry) water management systems (section 40C-400.500, F.A.C.)

- General Permit for the U.S. Forest Service for minor works within National Forests (section 62-341.495, F.A.C. or 40C-400.495, F.A.C.)

*Note: the following notice general permits are processed by the DEP pursuant to the operating agreement.

- General Permit for the construction of artificial reefs (section 62-341.600, F.A.C.)

- General Permit for clam and oyster culture on sovereignty submerged lands aquaculture leases (section 62-341.601, F.A.C.)

- General Permit for installation and maintenance of intake and discharge pipes associated with marine bivalve facilities (section 62-341.602, F.A.C.)

- General Permit for non-nursery cultivation and wild collection of aquatic plants (section 62-341.603, F.A.C.)

- General Permit to perform prospecting activities for phosphate minerals (section 62-341.610, F.A.C.)

- General Permit for temporary dragline crossings of waters (section 62-341.611, F.A.C.)

- General Permit for low water crossings (section 62-341.612, F.A.C.)

- General Permit for the construction and maintenance of electric powerlines by electric utilities (section 62-341.620, F.A.C.)

- General Permit for relocation of aerial electric and communication lines associated with road improvement projects (section 62-341.621, F.A.C.).

STANDARD GENERAL ENVIRONMENTAL RESOURCE PERMIT

Activities which do not qualify for an exemption or a noticed general permit may qualify for a Standard General Permit, if those activities meet all the criteria listed below. Applicants who are uncertain, should contact the appropriate reviewing agency. Applicants must file a permit application for any project which meets the criteria for a Standard General Permit.

- System must not be capable of impounding a volume of water more than 120 acre-feet, and

- Construction or alteration involving less than one acre of wetlands, and
- Project size is less than 100 acres, and
- The number of boat slip is less than ten.

INDIVIDUAL, AND CONCEPTUAL, ENVIRONMENTAL RESOURCE PERMIT

Any project or activity involving the construction, alteration, operation, maintenance, repair, or abandonment of any surface water or stormwater management system, dam, impoundment, reservoir, appurtenant work or works – including dredging and filling, and establishment and operation of a mitigation bank must receive an Individual, or a Conceptual, Environmental Resource Permit, unless the project qualifies for an exemption, a Noticed General Permit, or a Standard General Permit.

U.S. ARMY CORPS OF ENGINEERS GENERAL PERMITS

Following list of ACOE General Permits for which your project may qualify. Please contact nearest ACOE office for more information.

GP#	Activity	County	Issued Date	Expiration Date
SAJ-5	Maintenance Dredge (Residential Canals)	All Florida	08-15-94	08-15-99
SAJ-9	Private piers	Palm Beach	07-22-94	07-22-99
SAJ-12	Boat Ramp	All Florida	03-01-94	03-01-99
SAJ-13	Aerial Transmission Lines	All Florida	03-01-94	03-01-99
SAJ-14	Subaqueous Transmission Lines	All Florida	03-01-94	03-01-99
SAJ-17	Minor Structures	All Florida	12-07-90	12-07-95
SAJ-18	Boat Slips	All Florida	03-31-94	03-31-99
SAJ-20	Private Piers	All Florida	03-01-94	03-01-99
SAJ-33	Private Multi-family Piers	All Florida	03-01-94	03-01-99
SAJ-34	Commercial Piers	All Florida	03-01-94	03-01-99
SAJ-41	Bulkheads and Backfill	Pine Island	04-13-89	04-13-94
SAJ-42	Private Piers	Dade	02-16-94	02-16-99
SAJ-46	Bulkheads and Backfill in Residential Canals	All Florida	07-22-95	07-22-97
SAJ-48	Fill	Alligator Alley	10-12-88	10-12-93
SAJ-50	Artificial Reefs	All Florida	01-19-95	01-19-00
SAJ-59	Fill Bird Dr. Basin	Dade	08-02-94	08-02-99
SAJ-67	Minor Structures Waterway	Okeechobee	01-24-91	01-24-96
SAJ-68	Restricted Zones	All Florida	05-26-95	05-26-00
SAJ-70	Bulkheads and Canals Cudjoe Gardens	Monroe	11-09-90	11-09-95

Notes: ALL GENERAL PERMITS ARE SUBJECT TO GENERAL CONDITIONS.

As of March 1, 1994, all general permits for single-family piers that have been revoked are now replaced by SAJ-20

U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PERMITS

	Nationwide Permit Number/Description	Water Quality Certification Status	Coastal Zone Consistency Status	Predischarge Notification Requirements
1	Aids to Navigation	Certified	Certified	None
2	Structures in Artificial Canals	Certified	Certified	None
3	Maintenance	Certified	Certified	None
4	Harvesting, Enhancement, and Attraction Devices and Activities	Certified	Certified	None
5	Measurement Devices	Certified	Certified	No PDN coordination required
6	Survey Activities	Certified	Certified	None
7	Outfall Structures	Certified	Certified	No PDN coordination required
8	Oil and Gas Structures	Denied	Denied	
9	and Anchorage Areas	Certified	Certified	None
10	Mooring Buoys	Certified	Certified	None
11	Recreational Structures	Certified	Certified	None
12	Utility Line Backfill and Bedding	Certified	Certified	None
13	Bank Stabilization	Certified	Certified	PDN's coordinate with all Federal Agencies
14	Road Crossing	Certified	Certified	PDN coordination for tidal crossing only
15	U.S. Coast Guard Approved Bridges	Certified	Certified	None
16	Return Water From Upland Contained Disposal Areas	Denied	Certified	None
17	Hydropower Projects	Certified	Certified	PDN required for all
18	Minor Discharges agencies	Certified	Certified	PDN's coordinated with all applications with coordination with all agencies
19	Twenty Five Cubic Yards Dredging	Certified	Certified	None
20	Oil Spill Cleanup	Certified	Certified	None
22	Removal of Vessels	Certified	Certified	None

	Nationwide Permit Number/Description	Water Quality Certification Status	Coastal Zone Consistency Status	Predischarge Notification Requirements
23	Approved Categorical Exclusions	Certified	Certified	None
24	Section 404 Program	NA	NA	None
25	Structural Discharge	Certified	Certified	None
26	Headwaters and Isolated Waters	Certified	Certified	All work between 1 and 5 acres coordinated with EPA, NMFS and USF&WS. Work between 5 and 10 coordinated with ALL agencies including the State clearinghouse in Tallahassee
27	Waters Discharges	Certified	Certified	None
28	Modification of Existing Marinas	Certified	Certified	None
32	Completed Enforcement Actions	Certified	Certified	None
33	Temporary Construction and Access	Certified	Certified	No PDN coordination required
35	Maintenance Dredging of Existing Basins	Certified	Certified	None
36	Boat Ramps	Certified	Certified	None
37	Emergency Watershed Protection	Certified	Certified	No PDN coordination required with ALL agencies
38	Cleanup of Hazardous and Toxic Waste	Certified	Certified	No PDN coordination required with ALL agencies
40	Farm Buildings	Certified	Certified	None

Notes: Further explanations of listed activities can be found at 33 CFR Part 330 Appendix B.
Nationwide permit program revised - January 21, 1992
Information on nationwide as of September 15, 1995

CATEGORIES OF AUTHORIZATIONS FOR USE OF STATE OWNED SUBMERGED LANDS

See Section G of Application.

Attachment 3 to Instructions for Joint Application
Explanation of Authorization
To Use State Owned Sovereign Submerged Lands

As you read through this application, you will notice that some questions contained in this application have the words regulatory and proprietary associated with them.

The word regulatory refers to a type of governmental power which allows an entity of the government, such as the Department of Environmental Protection or water management districts to regulate your property as well as all publicly owned lands to some specific degree for the greater public good. The regulatory powers that the department and water management districts have over private and public lands are granted to these agencies by the Legislature of the State of Florida and the scope of these powers are defined in the Florida Statutes. The Department of Environmental Protection and water management districts in their regulatory capacity, are required by Chapter 373, Florida Statutes, to protect the water resources of the state to insure that these resources will be healthy and in abundance for present and future generations.

The word proprietary essentially means ownership and all the lands in the state that are in public ownership fall into this category. Generally all the submerged lands in the State of Florida that existed when Florida became a state in 1845 are considered Sovereign, and in accordance with the Constitution of the State of Florida, these lands are held in trust by the state for all the people. This means that all the people of the State of Florida are part land owners in all the sovereign submerged lands.

The Governor and the Cabinet, as the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida, have been designated by the Florida Legislature as the trustees of these sovereign submerged lands and associated aquatic resources. As the trustees, the Governor and the Cabinet are responsible for the protection, preservation and management of these lands. They are responsible for insuring that these lands and the associated aquatic resources remain healthy and in abundance for present and future generations. The Governor and the Cabinet have proprietary (ownership) authority on sovereign submerged lands to the mean high water line for tidally influenced water bodies and to the ordinary high water line for fresh water bodies. The Department of Environmental Protection and, as of October 12, 1995, the water management districts, serve as staff to the trustees so that a single agency can review both regulatory and proprietary requirements as they may apply to a proposed activity.

If your proposed activity is located on sovereign submerged lands, you will be required to meet both regulatory standards and the proprietary requirements stipulated by the trustees.

Complete Section G of this application form for proprietary authorization requests.

FOR AGENCY USE ONLY

ACOE Application # _____ SJR Application # _____
Date Application Received _____ Date Application Received_____
Proposed Project Lat. _____°_____'_____" Fee Received $_____
Proposed Project Long. _____°_____'_____" Fee Receipt #_____
Date Received_____ Project Use Codes_____
Assigned Reviewers_____ Reviewer #'s_____

SECTION A

Are any of the activities described in this application proposed to occur in, on, or over wetlands or other surface waters? **___ yes ___ no**

A. Type of Environmental Resource Permit Requested (check at least one)

____ Noticed General - include information requested in Section B.
____ Standard General (Single Family Dwelling) - include information requested in Sections C and D.
____ Standard General (all other projects) - include information requested in Sections C and E.
____ Individual (Single Family Dwelling) - include information requested in Sections C and D.
____ Individual (all other projects) - include information requested in Sections C and E.
____ Conceptual - include information requested in Sections C and E.
____ Mitigation Bank Permit (construction) - include information requested in Sections C and F. (If the proposed mitigation bank involves the construction of a surface water management system requiring another permit defined above, check the appropriate box and submit the information requested by the applicable section.)
____ Mitigation Bank (conceptual) - include information requested in Sections C and F.
____ Standard General Stormwater - include information requested in Sections C and H
____ Individual Stormwater - include information requested in Sections C and H

B. Type of activity for which you are applying (check at least one)

____ Construction and operation of a new system including dredging or filling in, on or over wetlands and other surface waters.
____ Alteration and operation of an existing system which was not previously permitted by a WMD or DEP.
____ Modification of a system previously permitted by a WMD or DEP. Provide previous permit numbers:
_____

___ Alteration and operation of a system
___ Abandonment of a system
___ Removal of a system
___ Extension of permit duration
___ Construction and operation of additional phases of a system

C. Are you requesting authorization to use State Owned Submerged Lands? ___ yes ___ no
(If yes, include the information requested in Section G.)

D. For activities in, on or over wetlands or other surface waters, check type of federal dredge and fill permit requested:

____ Individual ____ Programmatic General
____ General ____ Nationwide

E. Are you claiming to qualify for an exemption? ___ yes ___ no
If yes provide rule number if known_____.

OWNER(S) OF LAND	ENTITY TO RECEIVE PERMIT (IF OTHER THAN OWNER)
NAME	NAME
ADDRESS	ADDRESS
CITY, STATE, ZIP	CITY, STATE, ZIP
COMPANY AND TITLE	COMPANY AND TITLE
TELEPHONE ( ) FAX ( )	TELEPHONE ( ) FAX ( )
AGENT AUTHORIZED TO SECURE PERMIT (IF AN AGENT IS USED)	**CONSULTANT (IF DIFFERENT FROM AGENT)**
NAME	NAME
COMPANY AND TITLE	COMPANY AND TITLE
ADDRESS	ADDRESS
CITY, STATE, ZIP	CITY, STATE, ZIP
TELEPHONE ( ) FAX ( )	TELEPHONE ( ) FAX ( )

Name of project, including phase if applicable_____
Is this application for part of a multi-phase project? ___ yes ___ no
Total applicant-owned area contiguous to the project _____ ac
Total project area for which a permit is sought _____ ac
Impervious area for which a permit is sought _____ ac
What is the total area (metric equivalent for federally funded projects) of work in, on, or over wetlands or other surface waters?
_____acres _____ square feet _____ hectares _____ square meters
If a docking facility, the number of proposed new slips _____.
Project location (use additional sheets, if needed)
County(ies) _____
Section(s) _____ Township(s) _____ Range(s) _____
Section(s) _____ Township(s) _____ Range(s) _____
Land Grant name, if applicable _____
Tax Parcel Identification Number _____
Street address, road, or other location _____
City, Zip Code if applicable _____

Describe, in general terms, the proposed project, system or activity.

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

If there have been any pre-application meetings, including at the project site, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives.

_____
_____
_____

Please identify by number any MSSW/Wetland Resource/ERP/ACOE permits pending, issued or denied for projects at the location and any related enforcement actions.

Agency	Date	No.\Type of Application	Action Taken(Pending/Issued/Denied)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Note: The following information is required for projects proposed to occur in, on or over wetlands or other surface waters that need a federal dredge and fill permit and/or authorization to use state owned submerged lands . Please provide the names ,addresses and zip codes of property owners whose property directly adjoins the project (excluding applicant). Please attach a plan view showing the owner's names and adjoining property lines. Attach additional sheets if necessary.

1. _____ 2. _____
_____ _____
_____ _____
3. _____ 4. _____
_____ _____
_____ _____

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

_____

Typed/Printed Name of Applicant (If no Agent is used) or Agent (If one is so authorized below)

_____

Signature of Applicant/Agent Date

_____

(Corporate Title if applicable)

An Agent May Sign Above <u>Only</u> If The Applicant Completes The Following:

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

_____

Typed/Printed Name of Applicant Signature of Applicant Date

_____

(Corporate Title if applicable)

<u>Please note: The applicant's original signature (not a copy) is required above.</u>

Person Authorizing Access To The Property Must Complete The Following:

I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor permitted work if a permit is granted.

_____

Typed/Printed Name Signature Date

_____

(Corporate Title if applicable)

SECTION B

Information for Noticed General Environmental Resource Permits

INSTRUCTIONS: To qualify for a Noticed General Permit (NGP), the project must strictly comply with all of the terms, conditions, requirements, limitations and restrictions applicable to the NGP applied for. A summary of the types of NGP's available is contained in Attachment 2 to the instructions to this Joint Application. You should carefully review the rule section of the NGP for which you are applying to ensure that your project meets the requirements of that NGP. Please provide the information required below. All attachments must be submitted on 8.5" x 11" paper.

A. Provide the rule section number of the NGP for which you are applying:_____

B. Indicate the project boundaries on a USGS quad map reduced or enlarged as necessary to legibly show the entire project. If not apparent from the quad map, provide a location map showing a north arrow and a graphic scale; Section(s), Township(s), and Range(s); and sufficient detail to allow a person unfamiliar with the site to find it.

C. A legible site plan showing the following features as applicable:
   1. Property boundaries and dimensions.
   2. Name and location of any adjoining public streets or roads.
   3. Location and dimensions of all existing structures and use if not apparent.
   4. Label all impervious and pervious area and indicate their size.
   5. Indicate the direction of drainage relative to the proposed improvements.
   6. Locations of all proposed works.
   7. Permanent and temporary erosion, sediment and turbidity controls.
   8. Boundaries of wetlands and other surface waters identifying open water areas.

D. Boundary, area and volume of all temporary and permanent earthwork including pre- and post-construction grades.

E. Wetlands and aquatic habitat descriptions.

F. Construction methods and schedules.

G. Additional information that would show that you qualify for the general permit, addressing all the parameters, thresholds and conditions required in the general permit. Errors and omissions will be identified within 30 days by the processing agency.

SECTION C

Environmental Resource Permit
Notice of Receipt Of Application

This information is required in addition to that required in other sections of the application. Please submit five copies of this notice of receipt of application and all attachments. Please submit all information on 8 1/2 x 11" paper.

Project Name: _____ County: _____
Owner: _____
Applicant: _____
Applicant's Address: _____
_____

1. Indicate the project boundaries on a USGS quadrangle map reduced or enlarged as necessary to legibly show the entire project. If not apparent from the quad map, attach a location map showing a north arrow and a graphic scale; Section(s), Township(s), and Range(s); and sufficient detail to allow a person unfamiliar with the site to find it.

2. Provide the names of all wetlands, or other surface waters that would be dredged, filled, impounded, diverted, drained, or would receive discharge (either directly or indirectly), or would otherwise be impacted by the proposed activity, and specify if they are in an Outstanding Florida Water or Aquatic Preserve:
_____
_____

3. Attach a depiction (plan and section views), which clearly shows the works or other facilities proposed to be constructed. Use a scale sufficient to show the location and type of works. Use multiple sheets, if necessary.

4. Briefly describe the proposed project (such as "construct a deck with boatshelter", "replace two existing culverts", "construct surface water management system to serve 150 acre residential development"):
_____
_____

5. Specify the acreage of wetlands or other surface waters, if any, that are proposed to be disturbed, filled, excavated, or otherwise impacted by the proposed activity:
_____
_____

6. Provide a brief statement describing any proposed mitigation for impacts to wetlands and other surface waters (attach additional sheets if necessary):
_____
_____

FOR AGENCY USE ONLY
Application Name: _____
Application Number: _____
Office where the application can be inspected:_____
Date to be posted _____ Date to be removed:_____

SECTION D

Information for Standard or Individual Environmental Resource Permits for Projects Related to a Single Family Dwelling Unit

Complete this Section only if your project does not qualify for an exemption or noticed general permit. The information requested below is for projects related to an individual, single family dwelling unit, duplex, triplex, or quadraplex which is not part of a larger common plan of development proposed by the applicant. Please contact the local office of the DEP or WMD if you are unsure whether your project would fit this description.

PLEASE SUBMIT ALL INFORMATION ON PAPER NO LARGER THAN 24" X 36"

Please provide five (5) copies of the application package (which includes the signed application form, construction plan drawings, and other supporting information). This copy requirement includes any subsequently submitted information, unless a lower number of copies is specified in a request for additional information (RAI) letter.

WARNING: Failure to provide the requisite number of copies of the application package (including copies of any subsequently submitted information) will result in an increased application fee of up to $200 for each missing application package, pursuant to Rule 40C-1.603, F.A.C. The requirement to submit multiple copies shall not apply when the application package (including any subsequently submitted information) is received electronically via the District's E-Permitting website at floridaswater.com.

A. SITE INFORMATION

1. Directions: Provide written directions to the property.

2. Location of work: Indicate how the project will be marked on-site. For example, the center line of the road is flagged, a string running between stakes identifies the bulkhead location, etc.

B. DRAWINGS

Drawings should be of sufficient detail to clearly show the existing conditions of the site, and the extent, type, and location of the proposed activities. The drawings should clearly show wetlands or other surface waters temporarily or permanently impacted. Any wetland areas proposed to be created, enhanced, restored, preserved, or which will remain undisturbed should be clearly identified and labeled. The following drawings are required:

1. PLAN VIEW (TOP VIEW)

This shows the work as viewed from above. A survey of the project site is very useful as a starting point for preparing plan views of the project. Include the following:

a. Applicant name, property lines, north arrow and graphic scale or dimensions of proposed work on each drawing sheet.

b. Representative land elevations (spot elevations or contour lines) referred to National Geodetic Vertical Datum (NGVD), as is used on the U.S.G.S. contour maps.

c. The limits of wetlands, surface waters and open waters in the vicinity of the proposed work. Describe how the wetland limits were determined. If there has ever been a jurisdictional declamatory statement, a formal wetland determination, a formal determination, validated informal determination, or revalidated jurisdictional determination, provide identifying number.

d. All proposed work, including dredging, filling, or structures. Where possible, differentiate between work in open water, marshes, swamps, tidal flats or uplands.

e. Show selected water depths in and adjacent to the project site. For dock projects provide water depths at all mooring areas. Water depths should be determined at approximate mean low water (MLW) or seasonal low water. Include the average tidal range (the difference between mean high water (MHW) elevation and MLW elevation) if the project is in a tidal waterbody.

f. Label all existing structures, such as docks, bulkheads, riprap, or buildings in wetlands or other surface waters at or adjacent to the proposed activity.

g. If dredging or dewatering is involved, show the location of proposed spoil or dewatering sites. Include any levees, control structures or other methods for retaining or detaining return water. Also include locations of discharge sites where appropriate. **Note: a consumptive or water use permit may be required for dewatering.**

h. For piling supported structures over wetlands or other surface waters, show the entire structure and indicate the location of any aquatic vegetation in the vicinity of the proposed structure.

i. Show distance between the most waterward point of the proposed facility and the nearest edge of any navigation channel, where appropriate. If the project is on a waterway that has a federally maintained channel, a survey may be required to establish the distance from the waterward points of the structure to the near edge of the federal channel. Also indicate the width of

the waterway.

j. Clearly show the locations of all corresponding cross-sectional or profile views on the plan view drawings.

2. CROSS-SECTIONAL AND PROFILE VIEWS

The cross-sectional view should show a "cut-away" end or middle view of the project, while the profile view should show a side view as if cut length-wise. All drawings should include:

a. Applicant name and graphic horizontal and vertical scales or dimensions of proposed work on each drawing sheet.

b. Show approximate mean or seasonal (high and low) water line elevations referenced to NGVD.

C. PROJECT DETAILS

Provide a detailed description of the proposed project, including the following:

1. The type of activity that is proposed, how the activity will be conducted, and construction techniques and sequencing including equipment to be used, and methods for moving the equipment to and from the site. For projects that involve any dredging or excavation, describe the method of excavation, the type of material to be excavated, and the disposal location for the excavated material. Please state whether spoil is to be placed (either temporarily or permanently) in a wetland or other surface water. Indicate the time period that any temporary work will be in place.

2. The acreage of excavation and fill and differentiating between temporary and permanent work.

3. Methods for controlling turbidity (muddy water caused by erosion or work in the water).

4. Methods for stabilizing any slopes that will be created or disturbed during construction, including times expected to elapse before stabilization is performed. Describe both temporary and permanent stabilization methods such as staked hay bales, temporary grass seed, and permanent sod.

5. If pilings or a seawall are to be installed, state whether pilings and seawall slabs are to be installed by jetting or driving.

6. For fill projects, describe the source and type of fill material to be used. For activities that involve the installation of riprap, describe the source, type and size of the rocks, concrete, or other material to be used for the riprap, and how these materials are to be placed. State whether the rocks will be underlain with filter cloth.

D. SPECIAL BASIN INFORMATION

1. Wekiva River Hydrologic Basin-For projects within the Wekiva River Hydrologic Basin (basin boundary defined in Chapter 40C-41, F.A.C), provide design analysis to demonstrate compliance with Wekiva River Hydrologic Basin criteria, including:

    a. Location and volume of encroachment within the 100-year floodplain, and plan for compensating storage;

    b. Detailed erosion and sediment control plan when the project is within the Water Quality Protection Zone or if the project exceeds 120 acres;

    c. Estimated pre- and post-development ground water table levels when any part of the project is located within the Water Quantity Protection Zone;

    d. Delineation and assessment of the Riparian Habitat Protection Zone and impacts; and

    e. Submittal of the Local Government Notification form when any part of the system/project is within the Wekiva River Protection Area.

2. Wekiva Recharge Protection Basin – For projects within the Wekiva Recharge Protection Basin (basin boundary defined in Chapter 40C-41, F.A.C.), provide design analysis to demonstrate compliance with Wekiva Recharge Protection criteria, including: pre- and post-development recharge from the project area.

3. Econlockhatchee River Hydrologic Basin-For projects within the Econlockhatchee River Hydrologic Basin (basin boundary defined in Chapter 40C-41, F.A.C.), provide design analysis to demonstrate compliance with Econlockhatchee River Hydrologic Basin criteria, including:

    a. Pre- and post-development runoff hydrograph for the mean annual and 25-year design storm;

    b. Location and volume of encroachment within the 100-year floodplain, and plan for compensating storage;

    c. Systems which serve a drainage area in excess of 10 acres must satisfy the Stormwater Management Standard; and

    d. Delineation and assessment of the Riparian Habitat Protection Zone and impacts.

4. Upper St. Johns River Hydrologic Basin and Ocklawaha River Hydrologic Basin-For projects located within the Upper St. Johns River Hydrologic Basin or Ocklawaha River Hydrologic Basin (basin boundaries defined in Chapter 40C-41,

F.A.C.), provide design analysis to demonstrate compliance with the applicable Basin criteria, including:

a. Pre- and post-development runoff hydrograph analysis for the 10-year and 25-year design storm; and

b. For systems using pump discharges, provide pre- and post-development total runoff volume for the 96-hour storm duration

5. Tomoka River Hydrologic Basin and Spruce Creek Hydrologic Basin - For projects within the Tomoka River Hydrologic Basin or Spruce Creek Hydrologic Basin (basin boundaries defined in Chapter 40C-41, F.A.C), provide design analysis to demonstrate compliance with the applicable Basin criteria, including:

a. Location and volume of encroachment within the 100-year floodplain, and plan for compensating storage;

b. Estimated pre- and post-development ground water table levels when any part of the project is located within the Water Quantity Protection Zone; and

c. Delineation and assessment of the Riparian Habitat Protection Zone and impacts.

6. Karst Sensitive Areas Basin – For projects within the Karst Sensitive Areas Basin (basin defined in Chapter 40C-41, F.A.C.), provide design analysis to demonstrate compliance with Karst Sensitive Areas Basin criteria, including:

a. Geologic borings and geologic sections through the retention basin area. A geologic boring should be performed at the point of maximum excavation within the basin;

b. Location and description of limestone outcrops and any karst features, i.e., sinkholes or solution pipes which exist at the project site; and

c. Inventory of existing wells within a 1000 foot radius of the stormwater basin.

7. Lake Apopka Hydrologic Basin – For projects within the Lake Apopka Hydrologic Basin (basin boundary defined in Chapter 40C-41, F.A.C.) or that will discharge water to Lake Apopka or its tributaries, provide design analysis to demonstrate compliance with the Lake Apopka Hydrologic Basin criteria, including: pre-development total phosphorus and post-development total phosphorus discharged from the project area.

SECTION E

Information for Standard, Individual, Conceptual Approval Environmental Resource Permits for Projects not Related to a Single Family Dwelling Unit

Please provide the information requested below if the proposed project requires either a standard, individual, or conceptual approval environmental resource permit, and is not related to an individual, single family dwelling unit, duplex, triplex, or quadraplex. The information listed below represents the level of information that is usually required to evaluate an application. The level of information required for a specific project will vary depending on the nature and location of the site and the activity proposed. Conceptual approval permits generally do not require the same level of detail as a construction permit, however, providing a greater level of detail will reduce the need to submit additional information at a later date. If an item does not apply to your project, proceed to the next item. Please submit all information on paper no larger than 24" x 36".

Please provide five (5) copies of the application package (which includes the signed application form, construction plan drawings, and other supporting information). This copy requirement includes any subsequently submitted information, unless a lower number of copies is specified in a request for additional information (RAI) letter.

WARNING: Failure to provide the requisite number of copies of the application package (including copies of any subsequently submitted information) will result in an increased application fee of up to $200 for each missing application package, pursuant to Rule 40C-1.603, F.A.C. The requirement to submit multiple copies shall not apply when the application package (including any subsequently submitted information) is received electronically via the District's E-Permitting website at floridaswater.com.

I. SITE INFORMATION

a. Provide a map(s) of the project area and vicinity delineating USDA/SCS soil types;

b. Provide recent aerials, legible for photointerpretation with a scale of 1" = 400 ft, or more detailed, with project boundaries delineated on the aerial.

c. Identify the seasonal high water or mean high tide elevation and normal pool or mean low tide elevation for each on site wetland or surface water, including receiving waters into which runoff will be discharged. Include dates, datum, and methods used to determine these elevations.

d. Identify the wet season high water tables at the locations representative of the entire project site. Include dates, datum, and methods used to determine these elevations.

II. ENVIRONMENTAL CONSIDERATIONS

a. Provide results of any wildlife surveys that have been conducted on the site, and provide any comments pertaining to the project from the Florida Game and Fresh Water Fish Commission and the U.S. Fish and Wildlife Service.

b. Provide a description of how water quantity, quality, hydroperiod, and habitat will be maintained in on-site wetlands and other surface waters that will be preserved or will remain undisturbed.

c. Provide a narrative description of any proposed mitigation plans, including purpose, maintenance, monitoring, and construction sequence and techniques, and estimated costs.

d. Describe how boundaries of wetlands or other surface waters were determined. If there has ever been a jurisdictional declaratory statement, a formal wetland determination, a formal determination, a validated informal determination, or a revalidated jurisdictional determination, provide the identifying number.

e. Impact Summary Tables:

1. For all projects, complete Table 1, 2 and 3 as applicable.

2. For docking facilities or other structures constructed over wetlands or other surface waters, provide the information requested in Table 4.

3. For shoreline stabilization projects, provide the information requested in Table 5.

III. PLANS

Provide clear, detailed plans for the system including specifications, plan (overhead) views, cross sections (with the locations of the cross sections shown on the corresponding plan view), and profile (longitudinal) views of the proposed project. The plans must be signed and sealed by an appropriate registered professional as required by law. Plans must include a scale and a north arrow. These plans should show the following:

a. Project area boundary and total land area, including distances and orientation from roads or other land mark.

b. Existing land use and land cover (acreage and percentages), and on-site

natural communities, including wetlands and other surface waters, aquatic communities, and uplands. Use the Florida Land Use Cover & Classification System (FLUCCS)(Level 3) for projects proposed in the South Florida Water Management District, the St. Johns River Water Management District, and the Suwannee River Water Management District and use the National Wetlands Inventory (NWI) for projects proposed in the Southwest Florida Water Management District. Also identify each community with a unique identification number which must be consistent in all exhibits.

c. The existing topography extending at least 100 feet off the project area, and including adjacent wetlands and other surface waters. All topography shall include the location and a description of known benchmarks, referenced to NGVD. For systems waterward of the mean high water (MHW) or seasonal high water lines, show water depths, referenced to mean low water (MLW) in tidal areas or seasonal low water in non-tidal areas, and list the range between MHW and MLW. For docking facilities, indicate the distance to, location of, and depths of the nearest navigational channel and access routes to the channel.

d. If the projects is in the known flood plain of a stream or other water course, identify the flood plain boundary and approximate flooding elevation. Identify the 100-year flood elevation and floodplain boundary of any lake, stream or other watercourse located on or adjacent to the site.

e. The boundaries of wetlands and other surface waters within the project area. Distinguish those wetlands and other surface waters that have been delineated by any binding jurisdictional determination.

f. Proposed land use, land cover and natural communities (acreage and percentages), including wetlands and other surface waters, undisturbed uplands, aquatic communities, impervious surfaces, and water management areas. Use the same classification system and community identification number used in III (B) above.

g. Proposed impacts to wetlands and other surface waters, and any proposed connections/outfalls to other surface waters or wetlands.

h. Proposed buffer zones.

i. Pre and post-development drainage patterns and basin boundaries showing the direction of flows, including any off-site runoff being routed through or around the system; and connections between wetlands and other surface waters.

j. Location of all water management areas with details of size, side slopes,

and designed water depths.

k. Location and details of all water control structures, control elevations, any seasonal water level regulation schedules; and the location and description of benchmarks (minimum of one benchmark per structure).

l. Location, dimensions and elevations of all proposed structures, including docks, seawalls, utility lines, roads, and buildings.

m. Location, size, and design capacity of the internal water management facilities.

n. Rights-of-way and easements for the system, including all on-site and off-site areas to be reserved for water management purposes, and rights-of-way and easements for the existing drainage system, if any.

o. Receiving waters or surface water management systems into which runoff from the developed site will be discharged.

p. Location and details of the erosion, sediment and turbidity control measures to be implemented during each phase of construction and all permanent control measures to be implemented in post-development conditions.

q. Location, grading, design water levels, and planting details of all mitigation areas.

r. Site grading details, including perimeter site grading.

s. Disposal site for any excavated material, including temporary and permanent disposal sites.

t. Dewatering plan details.

u. For marina facilities, locations of any sewage pumpout facilities, fueling facilities, boat repair and maintenance facilities, and fish cleaning stations.

v. Location and description of any nearby existing offsite features (such as wetland and other surface waters, stormwater management ponds, and building or other structures) which might be affected by or affect the proposed construction or development.

w. For phased projects, provide a master development plan.

IV. CONSTRUCTION SCHEDULE AND TECHNIQUES

Provide a construction schedule, and a description of construction techniques, sequencing and equipment. This information should specifically include the following:

a. Method for installing any pilings or seawall slabs;

b. Schedule of implementation of a temporary or permanent erosion and turbidity control measures;

c. For projects that involve dredging or excavation in wetlands or other surface waters, describe the method of excavation, and the type of material to be excavated;

d. For projects that involve fill in wetlands or other surface waters, describe the source and type of fill material to be used. For shoreline stabilization projects that involve the installation of riprap, state how these materials are to be placed, (i.e., individually or with heavy equipment), and whether the rocks will be underlain with filter cloth;

e. If dewatering is required, detail the dewatering proposal including the methods that are proposed to contain the discharge, methods of isolating dewatering areas, and indicate the period dewatering structures will be in place; **Note: a consumptive use permit may be required for dewatering.**

f. Methods for transporting equipment and materials to and from the work site. If barges are required for access, provide the low water depths and draft of the fully loaded barge;

g. Demolition plan for any existing structures to be removed; and

h. Identify the schedule and party responsible for completing monitoring, record drawings, and as-built certifications for the project when completed.

V. DRAINAGE INFORMATION

a. Provide pre-development and post-development drainage calculations, signed and sealed by an appropriate registered professional, as follows:

1. Runoff characteristics, including area, runoff curve number or runoff coefficient, and time of concentration for each drainage basin;

2. Water table elevations (normal and seasonal high) including aerial extent and magnitude of any proposed water table drawdown;

3. Receiving water elevations (normal, wet season, design storm);

4. Design storms used including rainfall depth, duration, frequency, and distribution;

5. Runoff hydrograph(s) for each drainage basin, for all required design storm event(s);

6. Stage-storage computations for any area such as a reservoir, close basin, detention area, or channel, used in storage routing;

7. Stage-discharge computations for any storage areas at a selected control point, such as control structure or natural restriction;

8. Flood routings through on-site conveyance and storage areas;

9. Water surface profiles in the primary drainage system for each required design storm event(s);

10. Runoff peak rates and volumes discharged from the system for each required design storm event(s);

11. Tail water history and justification (time and elevation) and;

12. Pump specifications and operating curves for range of possible operating conditions (if used in system).

b. Provide the results of any percolation tests, where appropriate, and soil borings that are representative of the actual site conditions;

c. Provide the acreage, and percentages of the total project, of the following:

1. Impervious surfaces, excluding wetlands.

2. Pervious surfaces (green areas not including wetlands).

3. Lakes, canals, retention areas, other open water areas.

4. Wetlands.

d. Provide an engineering analysis of floodplain storage and conveyance (if applicable), including:

1. Hydraulic calculations for all proposed traversing works;

2. Backwater water surface profiles showing upstream impact of traversing works;

3. Location and volume of encroachment within regulated floodplain(s); and

4. Plan for compensating floodplain storage, if necessary, and calculations required for determining minimum building and road flood elevations.

e. Provide an analysis of the water quality treatment system including:

1. A description of the proposed stormwater treatment methodology that addresses the type of treatment, pollution abatement volumes, and recovery analysis; and

2. Construction plans and calculations that address stage-storage and design elevations, which demonstrate compliance with the appropriate water quality treatment criteria.

f. Provide a description of the engineering methodology, assumptions and references for the parameters listed above, and a copy of all such computations, engineering plans, and specifications used to analyze the system. If a computer program is used for the analysis, provide the name of the program, a description of the program, input and output data, two diskette copies, if available, and justification for model selection.

VI. OPERATION AND MAINTENANCE AND LEGAL DOCUMENTATION

a. Describe the overall maintenance and operation schedule for the proposed system.

b. Identify the entity that will be responsible for operating and maintaining the system in perpetuity if different than the permittee, a draft document enumerating the enforceable affirmative obligations on the entity to properly operate and maintain the system for its expected life, and documentation of the entity's financial responsibility for long term maintenance. If the proposed operation and maintenance entity is not a property owner's association, provide proof of the existence of an entity, or the future acceptance of the system by an entity which will operate and maintain the system. If a property owner's association is the proposed operation and maintenance entity, provide copies of the articles of incorporation for the association and copies of the declaration, restrictive covenants, deed restrictions, or other operational documents that assign responsibility for the operation and maintenance of the system. Provide

information ensuring the continued adequate access to the system for maintenance purposes. Before transfer of the system to the operating entity will be approved, the permittee must document that the transferee will be bound by all terms and conditions of the permit.

c. Provide copies of all proposed conservation easements, storm water management system easements, property owner's association documents, and plats for the property containing the proposed system.

d. Provide indication of how water and waste water service will be supplied. Letters of commitment from off-site suppliers must be included.

e. Provide a copy of the boundary survey and/or legal description and acreage of the total land area of contiguous property owned/controlled the applicant.

VII. WATER-USE

a. Will the surface water system be used for water supply, including landscape irrigation, recreation, etc.?

b. If a Consumptive Use or Water Use permit has been issued for the project, state the permit number.

c. If no Consumptive Use or Water Use permit has been issued for the project, indicate if such a permit will be required and when the application for a permit will be submitted.

d. Indicate how any existing wells located within the project site will be utilized or abandoned.

VIII. SPECIAL BASIN INFORMATION

a. Wekiva River Hydrologic Basin-For projects within the Wekiva River Hydrologic Basin (basin boundary defined in Chapter 40C-41, F.A.C), provide design analysis to demonstrate compliance with Wekiva River Hydrologic Basin criteria, including:

1. Location and volume of encroachment within the 100-year floodplain, and plan for compensating storage;

2. Detailed erosion and sediment control plan when the project is within the Water Quality Protection Zone or if the project exceeds 120 acres;

3. Estimated pre- and post-development ground water table levels

when any part of the project is located within the Water Quantity Protection Zone;

4. Delineation and assessment of the Riparian Habitat Protection Zone and impacts; and

5. Submittal of the Local Government Notification form when any part of the system/project is within the Wekiva River Protection Area.

b. Wekiva Recharge Protection Basin – For projects within the Wekiva Recharge Protection Basin (basin boundary defined in Chapter 40C-41, F.A.C.), provide design analysis to demonstrate compliance with Wekiva Recharge Protection criteria, including: pre- and post-development recharge from the project area.

c. Econlockhatchee River Hydrologic Basin-For projects within the Econlockhatchee River Hydrologic Basin (basin boundary defined in Chapter 40C-41, F.A.C.), provide design analysis to demonstrate compliance with Econlockhatchee River Hydrologic Basin criteria, including:

1. Pre- and post-development runoff hydrograph for the mean annual and 25-year design storm;

2. Location and volume of encroachment within the 100-year floodplain, and plan for compensating storage;

3. Systems which serve a drainage area in excess of 10 acres must satisfy the Stormwater Management Standard; and

4. Delineation and assessment of the Riparian Habitat Protection Zone and impacts.

d. Upper St. Johns River Hydrologic Basin and Ocklawaha River Hydrologic Basin-For projects located within the Upper St. Johns River Hydrologic Basin or Ocklawaha River Hydrologic Basin (basin boundaries defined in Chapter 40C-41, F.A.C.), provide design analysis to demonstrate compliance with the applicable Basin criteria, including:

1. Pre- and post-development runoff hydrograph analysis for the 10-year and 25-year design storm; and

2. For systems using pump discharges, provide pre- and post-development total runoff volume for the 96-hour storm duration.

e. Tomoka Rive Hydrologic Basin and Spruce Creek Hydrologic Basin - For projects within the Tomoka River Hydrologic Basin or Spruce Creek Hydrologic Basin (basin boundaries defined in Chapter 40C-41, F.A.C), provide design analysis to demonstrate compliance with the applicable Basin criteria, including:

1. Location and volume of encroachment within the 100-year floodplain, and plan for compensating storage;

2. Estimated pre- and post-development ground water table levels when any part of the project is located within the Water Quantity Protection Zone; and

3. Delineation and assessment of the Riparian Habitat Protection Zone and impacts.

f. Karst Sensitive Areas Basin – For projects within the Karst Sensitive Areas Basin (basin defined in Chapter 40C-41, F.A.C.), provide design analysis to demonstrate compliance with Karst Sensitive Areas Basin criteria including:

1. Geologic borings and geologic sections through the retention basin area. A geologic boring should be performed at the point of maximum excavation within the basin;

2. Location and description of limestone outcrops and any karst features, i.e., sinkholes or solution pipes which exist at the project site; and

3. Inventory of existing wells within a 1000 foot radius of the stormwater basin.

g. Lake Apopka Hydrologic Basin – For projects within the Lake Apopka Hydrologic Basin (basin boundary defined in Chapter 40C-41, F.A.C.) or that will discharge water to Lake Apopka or its tributaries, provide design analysis to demonstrate compliance with the Lake Apopka Hydrologic Basin criteria, including: pre-development total phosphorus and post-development total phosphorus discharged from the project area.

Table 1:
PROJECT WETLAND (WL) AND OTHER SURFACE WATER (SW) SUMMARY

WL & SW ID	WL & SW TYPE	WL & SW SIZE	WL & SW NOT IMPACTED	TEMPORARY WL & SWIMPACTS			PERMANENT WL & SW IMPACTS			MITIGATION ID
				WL & SW TYPE	IMPACT SIZE	IMPACT CODE	WL & SW TYPE	IMPACT SIZE	IMPACT CODE	
PROJECT TOTALS										

Comments:
CODES (multiple entries per cell not allowed):
Wetland Type: from an established wetland classification system (see Section E,111b.)
Impact Type: D=dredge; F=fill; H=change hydrology; S=shading; C=clearing; O=other

Reviewer: _____

Table 2:
PROJECT ON-SITE MITIGATION SUMMARY

MITIGATION ID	CREATION		RESTORATION		ENHANCEMENT		WETLAND PRESERVE		UPLAND PRESERVE		OTHER	
	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TYPE	AREA	TYPE	AREA	TARGET TYPE
PROJECT TOTALS												

Comments:
CODES (multiple entries per cell not allowed):
Target Type or Type = target or existing habitat type from an established wetland classification system or land use classification for non-wetland mitigation

Reviewer: _____

Table 3:
PROJECT OFF-SITE MITIGATION SUMMARY

MITIGATION ID	CREATION		RESTORATION		ENHANCEMENT		WETLAND PRESERVE		UPLAND PRESERVE		OTHER	
	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TYPE	AREA	TYPE	AREA	TARGET TYPE
PROJECT TOTALS												

Comments:
CODES (multiple entries per cell not allowed):
Target Type or Type = target or existing habitat type from an established wetland classification system or land use classification for non-wetland mitigation

Reviewer: _____

Table 4:

If you are constructing a docking facility, please provide the following:

Structures	Type of Work*	Length**	Width**	Height**	Total Sq. ft. over water	# Proposed Slips	# Existing Slips
Docks/Piers/Number:							
Finer Piers/Number:							
Other Water Structures							
Total:							

***Type of Work = N-New; R-Replaced; O-Other; RR-Removed; A-Altered/Modified**
****In Feet**
Use of Structure:_____

Will the docking facility provide:
Livaboard Slips? If yes, Number: _____
Fueling Facilities: If yes, Number: _____
Sewage Pump-out Facilities? If yes, Number: _____
Other Supplies or Services Required for Boating (excluding refreshments, bait and tackle)
_____ Yes _____ No

Type of Materials for Docking and Pilings (i.e., CCA, pressure treated wood, plastic, or concrete):
Pilings _____
Docking _____ Proposed Dock Plank Spacing (if applicable) _____

Proposed Size (length and draft), Type, and Number of Boats Expected to Use or Proposed to be Mooring at the facility):
_____
_____

Table 5:
SHORELINE STABILIZATION

If you are constructing a shoreline stabilization project, please provide the following:

Stabilization	Linear Ft. New	Linear Ft. Replaced	Linear Ft. Repaired	Linear Ft. Removed	Slope H: V:	Toe Width (ft)
Vertical Seawall						
Seawall + Rip Rap						
Rip Rap						
Rip Rap + Vegetation						
Other Shoreline Stabilization Type ____						

Size of Rip Rap

_____

Type of Rip Rap

_____

SECTION F
INFORMATION FOR MITIGATION BANKS

Please provide the information requested below if you are applying for a mitigation bank permit or a mitigation bank conceptual approval.

A. General Site Conditions. Provide the following :

1. A map, at regional scale, of the mitigation bank in relation to the regional watershed and proposed mitigation service area.

2. A vicinity map showing the mitigation bank in relation to adjacent lands and off-site areas of ecological or hydrologic significance which could affect the long term viability or ecological value of the bank;

3. A recent aerial photo of the mitigation bank (no photocopies) identifying boundaries of the project area;

4. A highway map showing points of access to the Mitigation Bank for site inspection;

5. A legal description of the proposed mitigation bank;

6. A description and assessment of current site conditions including:

    a. a soils map of the mitigation bank site;

    b. a topographic map of the mitigation bank site and adjacent hydrologic contributing and receiving areas;

    c. a hydrologic features map of the mitigation bank and adjacent hydrologic contributing and receiving areas;

    d. current hydrologic conditions in the mitigation bank site;

    e. a vegetation map of the mitigation bank site;

    f. ecological benefits currently provided to the regional watershed by the mitigation bank site;

    g. adjacent lands, including existing land uses and conditions, projected land uses according to comprehensive plans adopted pursuant to Chapter 163, F.S., by local governments having jurisdiction, and any special designations or classifications associated with adjacent lands or waters;

    h. a disclosure statement of any material fact which may affect the contemplated use of the property; and i. a Phase I environmental audit of the property (not required for conceptual approvals).

B. Mitigation Bank Information

1. A description of the ecological significance of the proposed mitigation bank to the regional watershed in which it is located.

2. A mitigation plan describing the actions proposed to establish, construct, operate, manage and maintain the Mitigation Bank including:

   a. construction-level drawings detailing proposed topographic alterations and all structural components associated with proposed activities (not required for conceptual approvals);

   b. proposed construction activities, including a detailed schedule for implementation;

   c. the proposed vegetation planting scheme and detailed schedule for implementation;

   d. measures to be implemented during and after construction to avoid adverse impacts related to proposed activities;

   e. a detailed long term management plan comprising all aspects of operation and maintenance, including water management practices, vegetation establishment, exotic and nuisance species control, fire management, and control of access; and

   f. a proposed monitoring plan to demonstrate mitigation success.

3. An assessment of improvement or changes in ecological value anticipated as a result of proposed mitigation actions including:

   a. a description of anticipated site conditions in the Mitigation Bank after the mitigation plan is successfully implemented;

   b. a comparison of current fish and wildlife habitat to expected habitat after the mitigation plan is successfully implemented; and

   c. a description of the expected ecological benefits to the regional watershed.

   Mitigation bank to meet the requirements of section 12.4.10, Applicant's Handbook: Management and Storage of Surface Waters (A.H.) (not required for conceptual approvals).

5. Draft documentation of financial responsibility meeting the requirements of section 12.4.11, A.H. (not required for conceptual approvals).

6. Any engineering calculations and/or computer modeling (such as hydrograph or staging) needed to assess the effects of the project on the hydrologic characteristics of the Mitigation Bank site and upstream and downstream areas.

SECTION G
APPLICATION FOR AUTHORIZATION TO USE STATE OWNED SUBMERGED LANDS

Part I:

Sovereign Submerged Lands title (ownership) information: Please read and answer the applicable questions listed below:

A. I have a sovereign submerged lands title check from the Division of State Lands which indicates that the proposed project is NOT ON sovereign submerged lands (Please attach a copy of the title determination to the application). Yes ____ No ____

If you answered Yes to Question A and you have attached a copy of the Division of State Lands Title Check to this application, you do not have to answer any other questions under Part I or II of Section G.

B. I have a sovereign submerged lands title check from the Division of State Lands which indicates that the proposed project is ON sovereign submerged lands (Please attach a copy of the title determination to the application). Yes ____ No ____

If you answered yes to question B, please provide the information requested in Part II. Your application will be deemed incomplete until the requested information is submitted.

C. I am not sure if the proposed project is on sovereign submerged lands. Please check here ____.

If you have checked this box department staff will request that the Division of State Lands conduct a title check. If the title check indicates that the proposed project or portions of the project are located on sovereign submerged lands you will be required to submit the information requested in Part II of this application. The application will be deemed incomplete until the requested information is submitted.

D. I am not sure if the proposed project is on sovereign submerged lands and I DO NOT WISH to contest the departments findings. Please check here _____.

If you have checked this box refer to Part II of this application and provide the requested information. The application will be deemed incomplete until the requested information is submitted.

E. It is my position that the proposed project is NOT on sovereign submerged lands. Please check here ____.

If you have evidence that indicates that the proposed project is not on sovereign submerged lands please attach the documentation to the application. If the Division of State Lands title check indicates that your proposed project or portion of your proposed project are on sovereign submerged lands you will be required to provide the information requested in Part II of this application.

F. If you wish to contest the findings of the title determination conducted by the Division of State Lands please contact the Department of Environmental Protection's General Council office. Your proposed project will be deemed incomplete until either the information requested in Part II is submitted or a legal ruling indicates that the proposed project is not on sovereign submerged lands.

Part II:

If you were referred to this section by Part I, please provide this additional information. Please note that if your proposed project is on sovereign submerged lands and the below requested information is not provided, your application will be considered incomplete.

A. Provide evidence of title to the subject riparian upland property in the form of the recorded deed, title insurance, legal opinion of title, or a long-term lease which specifically includes riparian rights. Evidence submitted must demonstrate that the applicant has sufficient title interest in the riparian upland property.

B. Provide a detailed statement describing the existing and proposed upland uses and activities. For commercial uses, indicate the specific type of activity, such as marina, ship repair, dry storage (including the number of storage spaces), commercial fishing/ seafood processing, fish camp, hotel, motel resort restaurant, office complex, manufacturing operation, etc.

For rental operations, such as trailer or recreational vehicle parks and apartment complexes, indicate the number of wetslip units/ spaces available for rent or lease and describe operational details (e.g., are spaces rented on a month to month basis or through annual leases).

For multi-family residential developments, such as condominiums, townhomes, or subdivisions, provide the number of living units/ lots and indicate whether or not the common property (including the riparian upland property) is or will be under the control of a homeowners association.

For projects sponsored by a local government, indicate whether or not the facilities will be open to the general public. Provide a breakdown of any fees that will be assessed, and indicate whether or not such fees will generate revenue or will simply cover costs associated with maintaining the facilities.

C. Provide a detailed statement describing the existing and proposed activities located on or over the sovereign submerged lands at the project site. This statement must include a description of docks and piers, types of vessels (e.g., commercial fishing, liveaboards, cruise ships, tour boats), length and draft of vessels, sewage pumpout facilities, fueling facilities, boathouses, boat ramps, travel lifts, railways, and any other structures or activities existing or proposed to be located waterward of the mean high water line/ ordinary high water line. If slips are existing and/or proposed, please indicate the number of powerboat slips and sailboat slips and the percentage of those slips available to the general public on a "first come, first serve" basis. This statement must include a description of channels, borrow sites, bridges, groins, jetties, pipelines or other utility crossings, and any other structures or activities existing or proposed to be located

waterward of the mean high water line/ ordinary high water line. For shoreline stabilization activities, this statement must include a description of seawalls, bulkheads, riprap, filling activities, and any other structures or activities existing or proposed to be located along the shoreline.

D. Provide the linear footage of shoreline at the mean high water line/ ordinary high water line owned by the applicant which borders sovereign submerged lands.

E. Provide a recent aerial photo of the area. A scale of 1" = 200' is preferred. Photos are generally available at minimal cost from your local government property appraiser's office or from district Department of Transportation offices. Indicate on the photo the specific location of your property/ project site.

PROPRIETARY PROJECT DESCRIPTIONS

Please check the most applicable activity which applies to your project(s):

Leases Activity Description

_____ Commercial marinas (renting wetslips)/including condos, etc., if 50% or more of their wetslips are available to the general public
_____ Public/Local governments
_____ Yacht Clubs/Country Clubs (when a membership is required)
_____ Multi-family/ but upland revenue generating (housing developments, trailer parks, apartments)
_____ Condominiums (requires upland ownership)
_____ Commercial Uplands Activity (Temporary Docking and/or fishing pier associated with upland revenue generating activities (i.e., restaurants, hotels, motels) for use of the customer at no charge)
_____ Miscellaneous Commercial Upland Enterprises where there is a charge associated with the use of the overwater structure (Charter Boats, Tour Boats, Fishing Piers)
_____ Ship Building/Boat Repair Service Facilities
_____ Commercial Fishing Related (Offloading, Seafood Processing)
_____ Private Single-family Residential Docking Facilities; Townhome Docking Facilities; Subdivision Docking Facilities (upland lots privately owned)

Public Easements & Use Agreements

_____ Miscellaneous Public Easements and Use Agreements
_____ Bridge Right-of-way (DOT, local government)
_____ Breakwater or Groin
_____ Subaqueous Utility Cable (TV, telephone, electrical)
_____ Subaqueous Outfall or Intake
_____ Subaqueous Utility Water/Sewer
_____ Overhead Utility w/Support Structure on sovereign submerged lands
_____ Spoil Site
_____ Pipeline (gas)
_____ Borrow Site

Private Easements

_____ Miscellaneous Private Easements
_____ Bridge Right-of-way
_____ Breakwater or Groin
_____ Subaqueous Utility Cable (TV, telephone, electrical)
_____ Subaqueous Outfall or Intake
_____ Subaqueous Utility Water/Sewer
_____ Overhead Utility Crossing
_____ Spoil Site
_____ Pipeline (gas)

Consents of Use

_____ Aerial Utility Crossing w/no support structures on sovereign submerged lands
_____ Private Dock
_____ Public Dock
_____ Multi-family Dock
_____ Fishing Pier (Private or Multi-family)
_____ Private Boat Ramp
_____ Sea Wall
_____ Dredge
_____ Maintenance Dredge
_____ Navigation Aids/Markers
_____ Artificial Reef
_____ Riprap
_____ Public Boat Ramp
_____ Public Fishing Pier
_____ Repair/Replace Existing Public Fishing Pier
_____ Repair/Replace Existing Private Dock
_____ Repair/Replace Existing Public Dock
_____ Repair/Replace Existing Multi-family dock
_____ Repair/Replace Existing Fishing Pier (Private or Multi-family)
_____ Repair/Replace Existing Private Boat Ramp
_____ Repair/Replace Existing Sea Wall, Revetments or Bulkheads
_____ Repair/Replace/Modify structures/activities within an existing lease, easement, management agreement or use agreement area or repair/replace existing grandfathered structures
_____ Repair/Replace Existing Public Boat Ramp

Miscellaneous

_____ Biscayne Bay Letters of Consistency/Inconsistency w/258.397, F.S.
_____ Management Agreements - Submerged Lands
_____ Reclamation
_____ Purchase of Filled, Formerly Submerged Lands
_____ Purchase of Reclaimed Lake Bottoms
_____ Treasure Salvage
_____ Insect Control Structures/Swales
_____ Miscellaneous projects which do not fall within the activity codes listed above

SECTION H
INFORMATION FOR ENVIRONMENTAL RESOURCE STORMWATER PERMITS

Provide the information requested below if the proposed project requires an environmental resource stormwater permit. All applicable technical information must be submitted with the completed application form. If an informational item does not apply to your project, proceed to the next item. Failure to provide all required information will result in a delay in application processing. Please submit all information on paper no larger than 24" x 36".

Please provide five (5) copies of the application package (which includes the signed application form, construction plan drawings, and other supporting information). This copy requirement includes any subsequently submitted information, unless a lower number of copies is specified in a request for additional information (RAI) letter.

WARNING: Failure to provide the requisite number of copies of the application package (including copies of any subsequently submitted information) will result in an increased application fee of up to $200 for each missing application package, pursuant to Rule 40C-1.603, F.A.C. The requirement to submit multiple copies shall not apply when the application package (including any subsequently submitted information) is received electronically via the District's E-Permitting website at floridaswater.com.

I. General site conditions

a. Recent aerial photo of project site (no photocopies) - 1" to 400' scale maximum;

b. Map(s) or applicable construction plan(s) (no larger than 24" X 36") showing:

1. General location of project shown on USGS quad map(s), including points of discharge;

2. Project area boundary;

3. Pre-development (existing) topography;

4. Pre-development drainage patterns including points of discharge for existing site-drainage and drainage basin boundaries;

5. Off-site drainage area and flow patterns across project site;

6. Location of existing drainage right-of-way or easements on-site;

7. Location of private and public water supply wells on-site; and

8. All wetlands on the site;

c. SCS soils map and report and/or soil boring data for treatment facility locations (borings should be a minimum 6 ft. depth below ground surface and 5 ft. below

proposed treatment facility bottom);

d. Water table data

Date, location, and water table level of actual measurements (if collected) with the estimated depth of antecedent rainfall (nearest NOAA rainfall station or other rain gage) during the previous one month period; and b. Estimated normal dry and wet season water table elevation (provide source or method of estimate.

II. Post-development project site conditions

a. Describe or document the legal outfall for point discharges of treated stormwater to adjacent property;

b. Identify and describe all on-site and off-site stormwater management systems which discharge into or receive discharge from the proposed project;

c. Provide the design tailwater elevation(s) at all points of discharge (include source or method of estimate);

d. Include the following on construction drawings for the project site:

1. Project land use and land cover;

2. Proposed construction, including erosion and sediment control plan for each phase (show specifications for erosion/sediment control measures on plans);

3. Vegetative cover plan for all on-site and off-site earth surfaces disturbed by construction;

4. Legal reservations for access to the treatment system for maintenance and operation by future maintenance entities for subdivided projects;

5. Provide locations for the following on construction plans:

(a) Drainage divide and area (in acres) served by each hydraulically separate stormwater treatment system;

(b) Septic tank or other proposed on-site wastewater treatment facility; and

(c) Wells and surface water withdrawals;

6. Provide plans, elevations and/or profiles, and details for the following:

(a) Roadway and parking pavements;

(b) Floor slabs, walkways and other paved surfaces;

(c) Earthwork grades for pervious landscaped areas; and

(d) All stormwater treatment and drainage facilities,

7. Show the following details for stormwater treatment systems construction plans:

(a) All treatment systems:

(1) Show the elevation of normal wet season water table, design normal water elevation, and elevations for storage of the treatment volume;

(2) Details of oil and grease control mechanism, if required;

(3) Details of the outlet and overflow control structure; and

(4) Details of treatment drawdown outlets. Show the design tailwater elevations on the outlet details; and

(5) The minimum erosion and sediment control measures to be implemented during construction and all permanent control measures in post-development conditions;

(b) Retention/detention facilities (including swales designed for retention/detention treatment only):

(1) Plan contours and/or cross section details showing bottom contours and elevations, all design dimensions, side slopes, and top of bank elevations; and

(2) Grassing or planting of all treatment system earth surfaces;

(c) Exfiltration trench:

(1) Trench dimensions and elevations;

(2) Pipe diameter, material, length, slope, perforation specification;

(3) Trench rock material with fillable porosity and filter fabric protection;

(4) Overflow elevation for trenches with outfall;

(5) Inlet and outlet structure details including sediment sumps; and

(6) Design and location of observation well(s);

(d) Underdrain and filter systems:

(1) Pipe length, slope, diameter, and minimum and maximum inverts;

(2) Maintenance access (such as at-grade cleanouts) for the filter pipe;

(3) Permeability of filter media for filtration systems;

(4) Permeability of soils for underdrain systems;

(5) Filter media gradation (uniformity coefficient and effective grain size) for filtration systems;

(6) Underdrain or filter detail at a uniform horizontal and vertical scale no greater than 1 inch 5 feet (to scale, not typical);

(7) Permeable, protective and stable surface cover (at the surface slope) for the filter surface (such as gravel); and

(8) Filter fabric protection as applicable for perforated pipes, coarse aggregate sections, and round the filter section;

(e) Wet detention systems:

(1) Littoral zone location and depths; and

(2) Elevation contours of pond bottom;

(f) Wetland stormwater management systems:

(1) Delineation of wetland areas utilized for stormwater treatment;

(g) Karst Sensitive Areas

(1) Geologic borings and geologic sections through the retention basin area. A geologic boring should be performed at the point of maximum excavation within the basin;

(2) Location and description of limestone outcrops and any karst features, i.e., sinkholes or solution pipes which exist at the project site; and

(3) Inventory of existing wells within a 1000 foot radius of the stormwater basin;

e. Design analysis/calculations (minimum required):

1. Provide the rational method runoff coefficient (c), drainage area, and impervious area (percentage of total drainage area) for each treatment system;

2. Calculate treatment volume required for each separate system (based on information in 5.a. above);

3. Provide stage-storage tabulations to demonstrate that required treatment storage is available in the treatment system below the overflow elevation;

4. Demonstrate 72 hour drawdown for retention, filtration, underdrain, or exfiltration trench systems based on natural soil conditions and/or specified filter media (with safety factor of 2 for filtration, underdrain, and exfiltration). Calculations must consider normal wet season water table and tailwater conditions to demonstrate recovery;

5. Demonstrate that the function of the proposed treatment systems does not adversely affect the treatment performance of all other stormwater management systems which serve or are served by the proposed project;

6. Demonstrate no more than half the treatment volume is discharged within 24 to 30 hours following a storm event for wet detention and wetland stormwater management systems;

7. Design analysis for sizing wet detention permanent pool volume;

8. Describe any additional management practices such as pretreatment, which will be used to enhance the water quality of the stormwater discharge; and

9. Peak discharge and conveyance calculations (if appropriate) for pre-development and post-development conditions as follows:

(a) Runoff characteristics, including area, runoff curve number or runoff coefficient, SCS hydrologic soil group, and time of concentration for each drainage hydrologic unit;

(b) Design storms used including duration, frequency, and time distribution;

(c) Runoff hydrograph(s) for each drainage basin for all required design storm events;

(d) State-storage computations for any storage area, such as a

detention area or channel storage, used in storage routing;

(e) Stage-discharge computations for any storage areas at a selected control point, such as structure control or natural restriction;

(f) Flood routings through on-site conveyance and storage areas;

(g) Water surface profiles and elevations in the primary surface water management system for the required design storm event(s); and

(h) Runoff peak rates and volumes discharged from the system for the design storm event(s);

f. Operation and maintenance

1. Describe the overall maintenance and operation schedule for the proposed stormwater treatment system;

2. If the proposed operation and maintenance entity is not a property owners association, provide proof of the existence of an entity or the future acceptance of the system by an entity, pursuant to Paragraphs 40C-42.027, (1)(a)-(d), F.A.C., which will operate and maintain the system;

3. If a property owners association is the proposed operation and maintenance entity, provide articles of incorporation for this association and the declaration, restrictive covenants, deed restrictions or other operational documents that assign responsibility for the operation and maintenance of the system, pursuant to 40C-42.027(4), F.A.C.; and

4. Provide information to ensure the continued adequate access to stormwater treatment systems for maintenance purposes;

g. Alternative stormwater treatment.

If equivalent treatment is to be provided, it is the applicant's responsibility to demonstrate that the stormwater management system, as designed, will meet or exceed the requirements set forth in the rule. Describe the subject stormwater discharge system. Discuss how the design is intended to achieve a treatment level equivalent to the design and performance criteria in Subparagraph 40C-42.024(2)(b)2. or Subsection 40C-42.024(4), F.A.C. Provide design analysis and calculations necessary to demonstrate that equivalent treatment will be achieved.

h. Wekiva River Hydrologic Basin (if applicable)

Submit the Local Government Notification form when any part of the system/project is within the Wekiva River Protection Area.

i. Wekiva Recharge Protection Basin – For projects within the Wekiva Recharge Protection Basin (basin boundary defined in Chapter 40C-41, F.A.C.), provide

design analysis to demonstrate compliance with Wekiva Recharge Protection criteria, including: pre- and post-development recharge from the project area.

j. Lake Apopka Hydrologic Basin – For projects within the Lake Apopka Hydrologic Basin (basin boundary defined in Chapter 40C-41, F.A.C.) or that will discharge water to Lake Apopka or its tributaries, provide design analysis to demonstrate compliance with the Lake Apopka Hydrologic Basin criteria, including: pre-development total phosphorus and post-development total phosphorus discharged from the project area.

Note: If professional engineering, geology, or landscape architecture is required by Florida Statute for the design of the proposed stormwater management system, construction plans and calculations must be signed and sealed by an appropriate professional registered in the State of Florida.