By Senator Saunders

37-1168-07 See HB 535

1	A bill to be entitled
2	An act relating to the Lake Okeechobee
3	Protection Program; amending s. 373.4595, F.S.;
4	expanding the program to include protection of
5	the Caloosahatchee and St. Lucie Rivers and
6	their estuaries; revising legislative findings
7	and intent; providing definitions; providing
8	for the Caloosahatchee and St. Lucie River
9	Estuary Protection Program, including an
10	Estuary Protection Plan, Estuary Construction
11	Project, Estuary Watershed Pollutant Control
12	Program, and Estuary Research, Water Quality,
13	and Habitat Monitoring Program; providing for
14	Estuary Protection Plan implementation and
15	evaluation; providing for estuary protection
16	permits; revising requirements relating to the
17	annual progress report of the South Florida
18	Water Management District; amending s. 373.036,
19	F.S.; conforming a cross-reference to changes
20	made by the act; providing an effective date.
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22	Be It Enacted by the Legislature of the State of Florida:
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24	Section 1. Section 373.4595, Florida Statutes, is
25	amended to read:
26	373.4595 Lake Okeechobee and Caloosahatchee and St.
27	Lucie River and Estuary Protection Program
28	(1) FINDINGS AND INTENT
29	(a) The Legislature finds that Lake Okeechobee is one
30	of the most important water resources of the state, providing
31	many functions benefiting the public interest, including

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agricultural, public, and environmental water supply; flood control; fishing; navigation and recreation; and habitat to endangered and threatened species and other flora and fauna.

- (b) The Legislature finds that the Caloosahatchee and St. Lucie Rivers and their estuaries provide significant economic value and natural habitat and biodiversity and are critical water resources of the state.
- (c) The Legislature finds that the volume, timing, and water quality of discharges to the estuaries of the Caloosahatchee and St. Lucie Rivers are the primary causes of adverse impacts and that excess flows affect seagrasses, oysters, and other living resources, including fisheries, in both systems.
- (d)(b) The Legislature finds that land uses in the Lake Okeechobee watershed and the construction of the Central and Southern Florida Project have resulted in adverse changes to the hydrology and water quality of Lake Okeechobee and the Caloosahatchee and St. Lucie Rivers and their estuaries. These hydrology and water quality changes have resulted in algal blooms and other adverse impacts to water quality both in Lake Okeechobee and in downstream receiving waters.
- (e)(c) The Legislature finds that improvement to the hydrology and water quality of Lake Okeechobee and the Caloosahatchee and St. Lucie Rivers and their estuaries is essential to the protection of the Everglades.
- (f)(d) The Legislature also finds that it is imperative for the state, local governments, and agricultural and environmental communities to commit to restoring and protecting Lake Okeechobee and downstream receiving waters, and that a watershed-based approach to address these issues must be developed and implemented immediately.

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(g)(e) The Legislature finds that phosphorus loads from the Lake Okeechobee watershed have contributed to excessive phosphorus levels in Lake Okeechobee and downstream receiving waters and that a reduction in levels of phosphorus will benefit the ecology of these systems. The excessive levels of phosphorus have also resulted in an accumulation of phosphorus in the sediments of Lake Okeechobee. If not removed, internal phosphorus loads from the sediments are expected to delay responses of the lake to external phosphorus reductions.

(h)(f) The Legislature finds that the Lake Okeechobee phosphorus loads set forth in the South Florida Water Management District's Technical Publication 81-2 represent an appropriate basis for the initial phase of phosphorus load reductions to Lake Okeechobee and that subsequent phases of phosphorus load reductions shall be determined by the total maximum daily loads established in accordance with s. 403.067.

 $\underline{\text{(i)}(g)}$ The Legislature finds that this section, in conjunction with s. 403.067, provides a reasonable means of achieving and maintaining compliance with state water quality standards.

(i)(h) The Legislature finds that the implementation of the programs contained in this section is for the benefit of the public health, safety, and welfare and is in the public interest.

(k)(i) The Legislature finds that sufficient research has been conducted and sufficient plans developed to immediately initiate the first phase of a program to address the hydrology and water quality problems in Lake Okeechobee and the Caloosahatchee and St. Lucie Rivers and their estuaries downstream receiving waters.

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(1) The Legislature finds that the tidal

Caloosahatchee and St. Lucie Rivers and their estuaries are

affected by the quality of waters discharged from Lake

Okeechobee and the estuaries' respective watersheds.

(m) The Legislature finds that an Estuary Protection

Program must be developed to identify the adverse hydrologic

and water quality impacts within, and upstream of, the

Caloosahatchee and St. Lucie Rivers and their estuaries and that solutions to address those impacts be developed and funded.

(n)(j) The Legislature finds that in order to achieve the goals and objectives of this section and to effectively implement the Lake Okeechobee Watershed Phosphorus Control Program pursuant to paragraph (3)(c), the state must expeditiously implement the Lake Okeechobee Protection Plan developed pursuant to paragraph (3)(a).

(o)(k) The Legislature finds that a continuing source of funding is needed to effectively implement a phosphorus control program that initially targets the most significant sources contributing to phosphorus loads within the watershed and continues to address other sources as needed to achieve the phased phosphorus load reductions required under this section.

(p)(1) It is the intent of the Legislature to achieve and maintain compliance with water quality standards in Lake Okeechobee and downstream receiving waters through a phased, comprehensive, and innovative protection program to reduce both internal and external phosphorus loads to Lake Okeechobee through immediate actions to achieve the phosphorus load reductions set forth in Technical Publication 81-2 and long-term solutions based upon the total maximum daily loads

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established in accordance with s. 403.067. This program shall be watershed-based, shall provide for consideration of all potential phosphorus sources, and shall include research and monitoring, development and implementation of best management practices, refinement of existing regulations, and structural and nonstructural projects, including public works.

(q)(m) It is the intent of the Legislature that this section the Lake Okeechobee Protection Program be developed and implemented in coordination with and, to the greatest extent practicable, through the implementation of Restudy project components and other federal programs in order to maximize opportunities for the most efficient and timely expenditures of public funds.

(r)(n) It is the intent of the Legislature that the coordinating agencies encourage and support the development of creative public-private partnerships and programs, including opportunities for pollutant trading and credits, to facilitate or further the restoration of Lake Okeechobee and the Caloosahatchee and St. Lucie Rivers and their estuaries, consistent with s. 403.067.

- (2) DEFINITIONS.--As used in this section:
- (a) "Best management practice" means a practice or combination of practices determined by the coordinating agencies, based on research, field-testing, and expert review, to be the most effective and practicable on-location means, including economic and technological considerations, for improving water quality in agricultural and urban discharges. Best management practices for agricultural discharges shall reflect a balance between water quality improvements and agricultural productivity.

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"Coordinating agencies" means the Department of 2 Agriculture and Consumer Services, the Department of Environmental Protection, and the South Florida Water 3 Management District. 4 5 (c) "Corps of Engineers" means the United States Army 6 Corps of Engineers. 7 (d) "Department" means the Department of Environmental Protection. 8 9 (e) "District" means the South Florida Water 10 Management District. (f) "District's WOD program" means the program 11 12 implemented pursuant to rules adopted as authorized by this 13 section and ss. 373.016, 373.044, 373.085, 373.086, 373.109, 373.113, 373.118, 373.451, and 373.453, entitled "Works of the 14 District Basin." 15 (q) "Estuary" or "estuaries" means the St. Lucie River 16 17 and its tributaries and estuary or the Caloosahatchee River and its tributaries and estuary or both rivers and their 18 tributaries and estuaries. 19 (h)(g) "Lake Okeechobee Construction Project" means 20 21 the construction project developed pursuant to paragraph 22 (3)(b).23 (i) (h) "Lake Okeechobee Protection Plan" means the plan developed pursuant to this section and ss. 2.4 373.451-373.459. 2.5 (i)(i) "Lake Okeechobee watershed" means Lake 26 27 Okeechobee and the area surrounding and tributary to Lake

Okeechobee, composed of the surrounding hydrologic basins, as defined by the Lake Okeechobee Protection Plan dated January

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 $\underline{(k)}(j)$ "Lake Okeechobee Watershed Phosphorus Control Program" means the program developed pursuant to paragraph (3)(c).

(1) "Pollutants" means pollution as defined in s.
403.031.

(m)(k) "Project component" means any structural or operational change, resulting from the Restudy, to the Central and Southern Florida Project as it existed and was operated as of January 1, 1999.

(n)(1) "Restudy" means the Comprehensive Review Study of the Central and Southern Florida Project, for which federal participation was authorized by the Federal Water Resources Development Acts of 1992 and 1996 together with related Congressional resolutions and for which participation by the South Florida Water Management District is authorized by s. 373.1501. The term includes all actions undertaken pursuant to the aforementioned authorizations which will result in recommendations for modifications or additions to the Central and Southern Florida Project.

(o)(m) "Total maximum daily load" means the sum of the individual wasteload allocations for point sources and the load allocations for nonpoint sources and natural background. Prior to determining individual wasteload allocations and load allocations, the maximum amount of a pollutant that a water body or water segment can assimilate from all sources without exceeding water quality standards must first be calculated.

(3) LAKE OKEECHOBEE PROTECTION PROGRAM.--A protection program for Lake Okeechobee that achieves phosphorus load reductions for Lake Okeechobee shall be immediately implemented as specified in this subsection. The program shall address the reduction of phosphorus loading to the lake from

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both internal and external sources. Phosphorus load reductions 2 shall be achieved through a phased program of implementation. Initial implementation actions shall be technology-based, 3 based upon a consideration of both the availability of 4 appropriate technology and the cost of such technology, and 5 shall include phosphorus reduction measures at both the source 7 and the regional level. The initial phase of phosphorus load 8 reductions shall be based upon the district's Technical Publication 81-2 and the district's WOD program, with 9 subsequent phases of phosphorus load reductions based upon the 10 total maximum daily loads established in accordance with s. 11 12 403.067. In the development and administration of the Lake 13 Okeechobee Protection Program, the coordinating agencies shall maximize opportunities provided by federal cost-sharing 14 15 programs and opportunities for partnerships with the private 16 sector.

- (a) Lake Okeechobee Protection Plan.--The district, in cooperation with the other coordinating agencies, shall complete a Lake Okeechobee Protection Plan in accordance with this section and ss. 373.451-373.459. The plan shall contain an implementation schedule for subsequent phases of phosphorus load reduction consistent with the total maximum daily loads established in accordance with s. 403.067. The plan shall consider and build upon a review and analysis of the following:
- 1. The performance of projects constructed during
 Phase I of the Lake Okeechobee Construction Project, pursuant
 to paragraph (b).
- 29 2. Relevant information resulting from the Lake
 30 Okeechobee Watershed Phosphorus Control Program, pursuant to
 31 paragraph (c).

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- 3. Relevant information resulting from the Lake Okeechobee Research and Water Quality Monitoring Program, pursuant to paragraph (d).
- 4. Relevant information resulting from the Lake Okeechobee Exotic Species Control Program, pursuant to paragraph (e).
- 5. Relevant information resulting from the Lake Okeechobee Internal Phosphorus Management Program, pursuant to paragraph (f).
- (b) Lake Okeechobee Construction Project.--To improve the hydrology and water quality of Lake Okeechobee and downstream receiving waters, the district shall design and construct the Lake Okeechobee Construction Project.
- 1. Phase I.--Phase I of the Lake Okeechobee

 Construction Project shall consist of a series of project

 features consistent with the recommendations of the South

 Florida Ecosystem Restoration Working Group's Lake Okeechobee

 Action Plan. Priority basins for such projects include S-191,

 S-154, and Pools D and E in the Lower Kissimmee River. In

 order to obtain phosphorus load reductions to Lake Okeechobee

 as soon as possible, the following actions shall be

 implemented:
- a. The district shall serve as a full partner with the Corps of Engineers in the design and construction of the Grassy Island Ranch and New Palm Dairy stormwater treatment facilities as components of the Lake Okeechobee Water Retention/Phosphorus Removal Critical Project. The Corps of Engineers shall have the lead in design and construction of these facilities. Should delays be encountered in the implementation of either of these facilities, the district shall notify the department and recommend corrective actions.

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- b. The district shall obtain permits and complete construction of two of the isolated wetland restoration projects that are part of the Lake Okeechobee Water Retention/Phosphorus Removal Critical Project. The additional isolated wetland projects included in this critical project shall further reduce phosphorus loading to Lake Okeechobee.
- c. The district shall work with the Corps of Engineers to expedite initiation of the design process for the Taylor Creek/Nubbins Slough Reservoir Assisted Stormwater Treatment Area, a project component of the Restudy. The district shall propose to the Corps of Engineers that the district take the lead in the design and construction of the Reservoir Assisted Stormwater Treatment Area and receive credit towards the local share of the total cost of the Restudy.
- 2. Phase II.--The district, in cooperation with the other coordinating agencies and the Corps of Engineers, shall develop an implementation plan for Phase II of the Lake Okeechobee Construction Project. Phase II shall include construction of additional facilities in the priority basins identified in subparagraph (b)1., as well as facilities for other basins in the Lake Okeechobee watershed. The implementation plan shall:
- a. Identify Lake Okeechobee Construction Project facilities to be constructed to achieve a design objective of 40 parts per billion (ppb) for phosphorus measured as a long-term flow weighted average concentration, unless an allocation has been established pursuant to s. 403.067 for the Lake Okeechobee total maximum daily load.
- b. Identify the size and location of all such Lake Okeechobee Construction Project facilities.

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- c. Provide a construction schedule for all such Lake Okeechobee Construction Project facilities, including the sequencing and specific timeframe for construction of each Lake Okeechobee Construction Project facility.
- d. Provide a land acquisition schedule for lands necessary to achieve the construction schedule.
- e. Provide a detailed schedule of costs associated with the construction schedule.
- f. Identify, to the maximum extent practicable, impacts on wetlands and state-listed species expected to be associated with construction of such facilities, including potential alternatives to minimize and mitigate such impacts, as appropriate.
- 3. Evaluation.--By January 1, 2004, and every 3 years thereafter, the district, in cooperation with the coordinating agencies, shall conduct an evaluation of any further phosphorus load reductions necessary to achieve compliance with the Lake Okeechobee total maximum daily load established pursuant to s. 403.067. Additionally, the district shall identify modifications to facilities of the Lake Okeechobee Construction Project as appropriate if the design objective of 40 parts per billion (ppb) or the allocation established pursuant to s. 403.067 for the Lake Okeechobee total maximum daily load established pursuant to s. 403.067 is not being met. The evaluation shall be included in the applicable annual progress report submitted pursuant to paragraph (h).
- 4. Coordination and review.--To ensure the timely implementation of the Lake Okeechobee Construction Project, the design of project facilities shall be coordinated with the department and other interested parties to the maximum extent practicable. Lake Okeechobee Construction Project facilities

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shall be reviewed and commented upon by the department prior to the execution of a construction contract by the district for that facility.

- Program.—The Lake Okeechobee Watershed Phosphorus Control
 Program is designed to be a multifaceted approach to reducing
 phosphorus loads by improving the management of phosphorus
 sources within the Lake Okeechobee watershed through continued
 implementation of existing regulations and best management
 practices, development and implementation of improved best
 management practices, improvement and restoration of the
 hydrologic function of natural and managed systems, and
 utilization of alternative technologies for nutrient
 reduction. The coordinating agencies shall facilitate the
 application of federal programs that offer opportunities for
 water quality treatment, including preservation, restoration,
 or creation of wetlands on agricultural lands.
- 1. Agricultural nonpoint source best management practices, developed in accordance with s. 403.067 and designed to achieve the objectives of the Lake Okeechobee Protection Program, shall be implemented on an expedited basis. The coordinating agencies shall develop an interagency agreement pursuant to ss. 373.046 and 373.406(5) that assures the development of best management practices that complement existing regulatory programs and specifies how those best management practices are implemented and verified. The interagency agreement shall address measures to be taken by the coordinating agencies during any best management practice reevaluation performed pursuant to sub-subparagraph d. The department shall use best professional judgment in making the

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initial determination of best management practice effectiveness.

- a. As provided in s. 403.067(7)(c), the Department of Agriculture and Consumer Services, in consultation with the department, the district, and affected parties, shall initiate rule development for interim measures, best management practices, conservation plans, nutrient management plans, or other measures necessary for Lake Okeechobee phosphorus load reduction. The rule shall include thresholds for requiring conservation and nutrient management plans and criteria for the contents of such plans. Development of agricultural nonpoint source best management practices shall initially focus on those priority basins listed in subparagraph (b)1. The Department of Agriculture and Consumer Services, in consultation with the department, the district, and affected parties, shall conduct an ongoing program for improvement of existing and development of new interim measures or best management practices for the purpose of adoption of such practices by rule.
- b. Where agricultural nonpoint source best management practices or interim measures have been adopted by rule of the Department of Agriculture and Consumer Services, the owner or operator of an agricultural nonpoint source addressed by such rule shall either implement interim measures or best management practices or demonstrate compliance with the district's WOD program by conducting monitoring prescribed by the department or the district. Owners or operators of agricultural nonpoint sources who implement interim measures or best management practices adopted by rule of the Department of Agriculture and Consumer Services shall be subject to the provisions of s. 403.067(7). The Department of Agriculture and

Consumer Services, in cooperation with the department and the district, shall provide technical and financial assistance for implementation of agricultural best management practices, subject to the availability of funds.

- c. The district or department shall conduct monitoring at representative sites to verify the effectiveness of agricultural nonpoint source best management practices.
- d. Where water quality problems are detected for agricultural nonpoint sources despite the appropriate implementation of adopted best management practices, the Department of Agriculture and Consumer Services, in consultation with the other coordinating agencies and affected parties, shall institute a reevaluation of the best management practices and make appropriate changes to the rule adopting best management practices.
- 2. Nonagricultural nonpoint source best management practices, developed in accordance with s. 403.067 and designed to achieve the objectives of the Lake Okeechobee Protection Program, shall be implemented on an expedited basis. The department and the district shall develop an interagency agreement pursuant to ss. 373.046 and 373.406(5) that assures the development of best management practices that complement existing regulatory programs and specifies how those best management practices are implemented and verified. The interagency agreement shall address measures to be taken by the department and the district during any best management practice reevaluation performed pursuant to sub-subparagraph d.
- a. The department and the district are directed to work with the University of Florida's Institute of Food and Agricultural Sciences to develop appropriate nutrient

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application rates for all nonagricultural soil amendments in 2 the watershed. As provided in s. 403.067(7)(c), the department, in consultation with the district and affected 3 parties, shall develop interim measures, best management 4 5 practices, or other measures necessary for Lake Okeechobee phosphorus load reduction. Development of nonagricultural nonpoint source best management practices shall initially 8 focus on those priority basins listed in subparagraph (b)1. The department, the district, and affected parties shall 9 conduct an ongoing program for improvement of existing and 10 development of new interim measures or best management 11 12 practices. The district shall adopt technology-based standards 13 under the district's WOD program for nonagricultural nonpoint 14 sources of phosphorus.

- b. Where nonagricultural nonpoint source best management practices or interim measures have been developed by the department and adopted by the district, the owner or operator of a nonagricultural nonpoint source shall implement interim measures or best management practices and be subject to the provisions of s. 403.067(7). The department and district shall provide technical and financial assistance for implementation of nonagricultural nonpoint source best management practices, subject to the availability of funds.
- c. The district or the department shall conduct monitoring at representative sites to verify the effectiveness of nonagricultural nonpoint source best management practices.
- d. Where water quality problems are detected for nonagricultural nonpoint sources despite the appropriate implementation of adopted best management practices, the department and the district shall institute a reevaluation of the best management practices.

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- 3. The provisions of subparagraphs 1. and 2. shall not preclude the department or the district from requiring compliance with water quality standards or with current best management practices requirements set forth in any applicable regulatory program authorized by law for the purpose of protecting water quality. Additionally, subparagraphs 1. and 2. are applicable only to the extent that they do not conflict with any rules promulgated by the department that are necessary to maintain a federally delegated or approved program.
- 4. Projects which reduce the phosphorus load originating from domestic wastewater systems within the Lake Okeechobee watershed shall be given funding priority in the department's revolving loan program under s. 403.1835. The department shall coordinate and provide assistance to those local governments seeking financial assistance for such priority projects.
- 5. Projects that make use of private lands, or lands held in trust for Indian tribes, to reduce nutrient loadings or concentrations within a basin by one or more of the following methods: restoring the natural hydrology of the basin, restoring wildlife habitat or impacted wetlands, reducing peak flows after storm events, increasing aquifer recharge, or protecting range and timberland from conversion to development, are eligible for grants available under this section from the coordinating agencies. For projects of otherwise equal priority, special funding priority will be given to those projects that make best use of the methods outlined above that involve public-private partnerships or that obtain federal match money. Preference ranking above the special funding priority will be given to projects located in

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a rural area of critical economic concern designated by the Governor. Grant applications may be submitted by any person or tribal entity, and eligible projects may include, but are not limited to, the purchase of conservation and flowage easements, hydrologic restoration of wetlands, creating treatment wetlands, development of a management plan for natural resources, and financial support to implement a management plan.

- 6.a. The department shall require all entities disposing of domestic wastewater residuals within the Lake Okeechobee watershed and the remaining areas of Okeechobee, Glades, and Hendry Counties to develop and submit to the department an agricultural use plan that limits applications based upon phosphorus loading. By July 1, 2005, phosphorus concentrations originating from these application sites shall not exceed the limits established in the district's WOD program.
- b. Private and government-owned utilities within
 Monroe, Dade, Broward, Palm Beach, Martin, St. Lucie, Indian
 River, Okeechobee, Highlands, Hendry, and Glades Counties that
 dispose of wastewater residual sludge from utility operations
 and septic removal by land spreading in the Lake Okeechobee
 watershed may use a line item on local sewer rates to cover
 wastewater residual treatment and disposal if such disposal
 and treatment is done by approved alternative treatment
 methodology at a facility located within the areas designated
 by the Governor as rural areas of critical economic concern
 pursuant to s. 288.0656. This additional line item is an
 environmental protection disposal fee above the present sewer
 rate and shall not be considered a part of the present sewer
 rate to customers, notwithstanding provisions to the contrary

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in chapter 367. The fee shall be established by the county commission or its designated assignee in the county in which 2 the alternative method treatment facility is located. The fee 3 shall be calculated to be no higher than that necessary to 4 recover the facility's prudent cost of providing the service. 5 6 Upon request by an affected county commission, the Florida 7 Public Service Commission will provide assistance in 8 establishing the fee. Further, for utilities and utility authorities that use the additional line item environmental 9 protection disposal fee, such fee shall not be considered a 10 rate increase under the rules of the Public Service Commission 11 12 and shall be exempt from such rules. Utilities using the 13 provisions of this section may immediately include in their sewer invoicing the new environmental protection disposal fee. 14 Proceeds from this environmental protection disposal fee shall 15 be used for treatment and disposal of wastewater residuals, 16 17 including any treatment technology that helps reduce the volume of residuals that require final disposal, but such 18 proceeds shall not be used for transportation or shipment 19 costs for disposal or any costs relating to the land 20 application of residuals in the Lake Okeechobee watershed. 2.1 22 c. No less frequently than once every 3 years, the

c. No less frequently than once every 3 years, the Florida Public Service Commission or the county commission through the services of an independent auditor shall perform a financial audit of all facilities receiving compensation from an environmental protection disposal fee. The Florida Public Service Commission or the county commission through the services of an independent auditor shall also perform an audit of the methodology used in establishing the environmental protection disposal fee. The Florida Public Service Commission or the county commission shall, within 120 days after

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completion of an audit, file the audit report with the President of the Senate and the Speaker of the House of Representatives and shall provide copies to the county commissions of the counties set forth in sub-subparagraph b. The books and records of any facilities receiving compensation from an environmental protection disposal fee shall be open to the Florida Public Service Commission and the Auditor General for review upon request.

- 7. The Department of Health shall require all entities disposing of septage within the Lake Okeechobee watershed and the remaining areas of Okeechobee, Glades, and Hendry Counties to develop and submit to that agency an agricultural use plan that limits applications based upon phosphorus loading. By July 1, 2005, phosphorus concentrations originating from these application sites shall not exceed the limits established in the district's WOD program.
- 8. The Department of Agriculture and Consumer Services shall initiate rulemaking requiring entities within the Lake Okeechobee watershed and the remaining areas of Okeechobee, Glades, and Hendry Counties which land-apply animal manure to develop conservation or nutrient management plans that limit application, based upon phosphorus loading. Such rules may include criteria and thresholds for the requirement to develop a conservation or nutrient management plan, requirements for plan approval, and recordkeeping requirements.
- 9. Prior to authorizing a discharge into works of the district, the district shall require responsible parties to demonstrate that proposed changes in land use will not result in increased phosphorus loading over that of existing land uses.

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- 10. The district, the department, or the Department of Agriculture and Consumer Services, as appropriate, shall implement those alternative nutrient reduction technologies determined to be feasible pursuant to subparagraph (d)6.
- (d) Lake Okeechobee Research and Water Quality
 Monitoring Program.--The district, in cooperation with the
 other coordinating agencies, shall establish a Lake Okeechobee
 Research and Water Quality Monitoring Program that builds upon
 the district's existing Lake Okeechobee research program. The
 program shall:
- 1. Evaluate all available existing water quality data concerning total phosphorus in the Lake Okeechobee watershed, develop a water quality baseline to represent existing conditions for total phosphorus, monitor long-term ecological changes, including water quality for total phosphorus, and measure compliance with water quality standards for total phosphorus, including the total maximum daily load for Lake Okeechobee as established pursuant to s. 403.067. The district shall also implement a total phosphorus monitoring program at all inflow structures to Lake Okeechobee.
- 2. Develop a Lake Okeechobee water quality model that reasonably represents phosphorus dynamics of the lake and incorporates an uncertainty analysis associated with model predictions.
- 3. Determine the relative contribution of phosphorus from all identifiable sources and all primary and secondary land uses.
- 4. Conduct an assessment of the sources of phosphorus from the Upper Kissimmee chain-of-lakes and Lake Istokpoga, and their relative contribution to the water quality of Lake Okeechobee. The results of this assessment shall be used by

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the coordinating agencies to develop interim measures, best management practices, or regulation, as applicable.

- 5. Assess current water management practices within the Lake Okeechobee watershed and develop recommendations for structural and operational improvements. Such recommendations shall balance water supply, flood control, estuarine salinity, maintenance of a healthy lake littoral zone, and water quality considerations.
- 6. Evaluate the feasibility of alternative nutrient reduction technologies, including sediment traps, canal and ditch maintenance, fish production or other aquaculture, bioenergy conversion processes, and algal or other biological treatment technologies.
- (e) Lake Okeechobee Exotic Species Control

 Program.—The coordinating agencies shall identify the exotic species that threaten the native flora and fauna within the Lake Okeechobee watershed and develop and implement measures to protect the native flora and fauna.
- (f) Lake Okeechobee Internal Phosphorus Management Program.—The district, in cooperation with the other coordinating agencies and interested parties, shall complete a Lake Okeechobee internal phosphorus load removal feasibility study. The feasibility study shall be based on technical feasibility, as well as economic considerations, and address all reasonable methods of phosphorus removal. If methods are found to be feasible, the district shall immediately pursue the design, funding, and permitting for implementing such methods.
- (g) Lake Okeechobee Protection Plan implementation.—The coordinating agencies shall be jointly responsible for implementing the Lake Okeechobee Protection

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Plan, consistent with the statutory authority and responsibility of each agency. Annual funding priorities shall be jointly established, and the highest priority shall be assigned to programs and projects that address phosphorus sources that have the highest relative contribution to phosphorus loading and the greatest potential for phosphorus reduction. In determining funding priorities, the coordinating agencies shall also consider the need for regulatory compliance, the extent to which the program or project is ready to proceed, and the availability of federal matching funds or other nonstate funding, including public-private partnerships. Federal and other nonstate funding shall be maximized to the greatest extent practicable.

(h) Annual progress report. Each March 1, beginning in 2006, the district shall report on implementation of this section as part of the consolidated annual report required in s. 373.036(7). The annual report shall include a summary of water quality and habitat conditions in Lake Okeechobee and the Lake Okeechobee watershed and the status of the Lake Okeechobee Construction Project. The district shall prepare the report in cooperation with the other coordinating agencies.

- (4) LAKE OKEECHOBEE PROTECTION PERMITS. --
- (a) The Legislature finds that the Lake Okeechobee Protection Program will benefit Lake Okeechobee and downstream receiving waters and is consistent with the public interest. The Lake Okeechobee Construction Project and structures discharging into or from Lake Okeechobee shall be constructed, operated, and maintained in accordance with this section.
- (b) Permits obtained pursuant to this section are in lieu of all other permits under this chapter or chapter 403,

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except those issued under s. 403.0885, if applicable. No
additional permits are required for the Lake Okeechobee
Construction Project or structures discharging into or from
Lake Okeechobee, if permitted under this section. Construction
activities related to implementation of the Lake Okeechobee
Construction Project may be initiated prior to final agency
action, or notice of intended agency action, on any permit
from the department under this section.

- (c) Within 90 days of completion of the diversion plans set forth in Department Consent Orders 91-0694, 91-0707, 91-0706, 91-0705, and RT50-205564, owners or operators of existing structures which discharge into or from Lake Okeechobee that are subject to the provisions of s. 373.4592(4)(a) shall apply for a permit from the department to operate and maintain such structures. By September 1, 2000, owners or operators of all other existing structures which discharge into or from Lake Okeechobee shall apply for a permit from the department to operate and maintain such structures. The department shall issue one or more such permits for a term of 5 years upon the demonstration of reasonable assurance that schedules and strategies to achieve and maintain compliance with water quality standards have been provided for, to the maximum extent practicable, and that operation of the structures otherwise complies with provisions of ss. 373.413 and 373.416.
- 1. Permits issued under this paragraph shall also contain reasonable conditions to ensure that discharges of waters through structures:
 - a. Are adequately and accurately monitored;
- b. Will not degrade existing Lake Okeechobee waterquality and will result in an overall reduction of phosphorus

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input into Lake Okeechobee, as set forth in the district's Technical Publication 81-2 and the total maximum daily load established in accordance with s. 403.067, to the maximum extent practicable; and

- c. Do not pose a serious danger to public health, safety, or welfare.
- 2. For the purposes of this paragraph, owners and operators of existing structures which are subject to the provisions of s. 373.4592(4)(a) and which discharge into or from Lake Okeechobee shall be deemed in compliance with the term "maximum extent practicable" if they are in full compliance with the conditions of permits under chapters 40E-61 and 40E-63, Florida Administrative Code.
- 3. By January 1, 2004, the district shall submit to the department a permit modification to the Lake Okeechobee structure permits to incorporate proposed changes necessary to ensure that discharges through the structures covered by this permit achieve state water quality standards, including the total maximum daily load established in accordance with s. 403.067. These changes shall be designed to achieve such compliance with state water quality standards no later than January 1, 2015.
- (d) The department shall require permits for Lake Okeechobee Construction Project facilities. However, projects identified in sub-subparagraph (3)(b)1.b. that qualify as exempt pursuant to s. 373.406 shall not need permits under this section. Such permits shall be issued for a term of 5 years upon the demonstration of reasonable assurances that:
- 1. The Lake Okeechobee Construction Project facility, based upon the conceptual design documents and any subsequent detailed design documents developed by the district, will

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achieve the design objectives for phosphorus required in paragraph (3)(b);

- 2. For water quality standards other than phosphorus, the quality of water discharged from the facility is of equal or better quality than the inflows;
- 3. Discharges from the facility do not pose a serious danger to public health, safety, or welfare; and
- 4. Any impacts on wetlands or state-listed species resulting from implementation of that facility of the Lake Okeechobee Construction Project are minimized and mitigated, as appropriate.
- (e) At least 60 days prior to the expiration of any permit issued under this section, the permittee may apply for a renewal thereof for a period of 5 years.
- (f) Permits issued under this section may include any standard conditions provided by department rule which are appropriate and consistent with this section.
- (g) Permits issued pursuant to this section may be modified, as appropriate, upon review and approval by the department.
- (5) CALOOSAHATCHEE AND ST. LUCIE RIVER AND ESTUARY
 PROTECTION PROGRAM. -- A protection program for the estuaries
 shall be developed and implemented as specified in this
 subsection. The program shall address the reduction of
 pollutant loadings to the estuaries, restoration of natural
 hydrology, and compliance with applicable state water quality
 standards. The program shall be achieved through a phased
 program of implementation. In addition, pollutant load
 reductions based upon adopted total maximum daily loads
 established in accordance with s. 403.067 shall serve as a

program objective. In the development and administration of

the program, the coordinating agencies shall maximize 2 opportunities provided by federal and local government cost-sharing programs and opportunities for partnerships with 3 4 the private sector and local government. The department is directed to develop and adopt total maximum daily loads for 5 6 the estuaries. The department is further directed to develop 7 and adopt numeric standards for those state water quality 8 parameters that contribute to degradation of estuarine water quality and habitat. 9 10 (a) Estuary Protection Plan. -- No later than January, 1 2009, the district, in cooperation with the other coordinating 11 12 agencies, Martin and Lee Counties, and other affected local 13 governments, shall complete an Estuary Protection Plan in accordance with this subsection. The plan shall contain an 14 implementation schedule for pollutant load reductions 15 consistent with any adopted total maximum daily loads and 16 compliance with applicable state water quality standards. The 18 plan shall develop, consider, and build upon a review and analysis of the following: 19 1. Relevant information resulting from the Estuary 2.0 21 Watershed Pollutant Control Program developed pursuant to this 2.2 subsection. 23 Relevant information resulting from the Estuary Research, Water Quality, and Habitat Monitoring Program 2.4 developed pursuant to this subsection. 2.5 26 27 Data analysis shall include the creation of appropriate 2.8 hydraulic and water quality models that shall be updated as new information is collected. These models shall be used to 29 develop design objectives for the Estuary Construction Project 30

and improvement of estuarine water quality and habitat.

1	(b) Estuary Construction Project To improve the
2	hydrology, water quality, and habitats within the estuaries,
3	the district shall, no later than January 1, 2012, plan,
4	design, and construct the initial phase of estuary
5	construction projects. In doing so, the district shall:
6	1. Develop and designate the Estuary Construction
7	Project facilities to be constructed to achieve stated goals
8	and objectives of the Estuary Protection Plan.
9	2. Identify the size and location of all such Estuary
10	Construction Project facilities.
11	3. Provide a construction schedule for all such
12	Estuary Construction Project facilities, including the
13	sequencing and specific timeframe for construction of each
14	Estuary Construction Project facility.
15	4. Provide a schedule for the acquisition of lands or
16	sufficient interests necessary to achieve the construction
17	schedule.
18	5. Provide a schedule of costs and benefits associated
19	with each construction project and identify funding sources.
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21	To ensure the timely implementation to the Estuary
22	Construction Project, the design of project facilities shall
23	be coordinated with the department, Lee and Martin Counties,
24	other interested parties, and other affected local
25	governments.
26	(c) Estuary Watershed Pollutant Control Program The
27	Estuary Watershed Pollutant Control Program is designed to be
28	a multifaceted approach to reducing pollutant loads by
29	improving the management of pollutant sources within the
30	estuary watersheds through continued implementation of
31	existing regulations and best management practices,

development and implementation of improved best management 2 practices, improvement and restoration of the hydrologic function of natural and managed systems, and utilization of 3 4 alternative technologies for pollutant reduction. The 5 coordinating agencies shall facilitate the utilization of 6 federal programs that offer opportunities for water quality 7 treatment, including preservation, restoration, or creation of 8 wetlands on agricultural lands. 9 Nonpoint source best management practices, designed 10 to achieve the objectives of the Estuary Protection Program, shall be implemented on an expedited basis. The coordinating 11 12 agencies shall develop an intergovernmental agreement that 13 ensures the development of best management practices that complement existing regulatory programs and specifies how such 14 best management practices are implemented and verified. The 15 16 coordinating agencies may enter into intergovernmental agreements with local governments. The coordinating agencies 18 shall develop an intergovernmental agreement with Lee County or Martin County or both counties to implement this subsection 19 within their respective geographic boundaries. 2.0 21 The district or department shall conduct monitoring 2.2 at representative sites as selected by scientific and 23 statistical methods to verify the effectiveness of nonpoint 2.4 source best management practices. Where water quality problems are detected for 2.5 nonpoint sources, despite the appropriate implementation of 26 2.7 adopted best management practices, the department or 2.8 Department of Agriculture and Consumer Services, as appropriate, pursuant to s.403.067, in consultation with the 29 30 other coordinating agencies and affected parties, shall

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institute a reevaluation of the best management practices and adopt by rule more effective best management practices.

- 4. Nothing in this subsection precludes the department or the district from requiring compliance with water quality standards, adopted total maximum daily loads, or current best management practices requirements set forth in any applicable regulatory program authorized by law for the purpose of protecting water quality. This subsection is applicable only to the extent that it does do not conflict with any rules promulgated by the department or district that are necessary to maintain a federally delegated or approved program.
- Projects that make use of private lands, or lands held in trust for Indian tribes, to reduce pollutant loadings or concentrations within a basin, or that reduce the volume of harmful discharges from Lake Okeechobee or the estuary watersheds, by one or more of the following methods: restoring the natural hydrology of the basin, restoring wildlife habitat or impacted wetlands, reducing peak flows after storm events, or increasing aguifer recharge, are eligible for grants available under this section from the coordinating agencies. In addition, special funding priority will be given to projects that obtain federal or local government match money. Preference ranking above the special funding priority shall be given to projects located in a rural area of critical economic concern designated by the Governor. Grant applications may be submitted by any person or tribal entity, and eligible projects may include, but are not limited to, the purchase of conservation and flowage easements, hydrologic restoration of

wetlands, creation of treatment wetlands, development of a

to implement the management plan.

management plan for natural resources, and financial support

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Prior to authorizing a discharge into the 2 estuaries, the district shall require responsible parties to demonstrate that proposed changes in land use will not result 3 4 in increased pollutant loading and increased runoff volume over that of existing land uses. 5 6 (d) Estuary Research, Water Quality, and Habitat 7 Monitoring Program. -- The district, in cooperation with the 8 other coordinating agencies and other local governments, shall establish an Estuary Research, Water Quality, and Habitat 9 10 Monitoring Program that builds upon the district's existing research program. The program shall: 11 12 Evaluate all available existing water quality data 13 concerning total pollutants in the estuaries' watersheds, develop a water quality baseline to represent existing 14 conditions, and measure compliance with water quality 15 standards, achievement of salinity targets, and total maximum 16 daily loads for the estuaries. The district shall also 18 implement pollutant monitoring programs at representative sites as selected by scientific and statistical methods to 19 quantify inflows to the estuaries. 2.0 21 2. Develop and improve estuary water quality models 2.2 that reasonably represent the dynamics of the estuaries and 23 incorporate an uncertainty analysis associated with model 2.4 predictions. 3. Determine the relative contribution of pollutants 2.5 and runoff from all major sources. 26 27 4. Evaluate all available estuarine research, habitat 2.8 monitoring data, and restoration data, develop a habitat baseline to represent existing and desired future conditions, 29

and measure success in enhancing habitat values.

Conduct an assessment of the water volumes and 2 timing from the upstream Lake Okeechobee watershed, including the Kissimmee chain-of-lakes and Lake Istokpoga and its 3 4 watershed and the lower portion of the Lake Okeechobee watershed, and their relative contribution to the water level 5 changes in Lake Okeechobee. The results of this assessment 6 7 shall be used by the coordinating agencies to develop 8 operational and structural measures or regulations, as applicable, to benefit the estuaries. 9 10 6. Assess current water management practices within the estuary watersheds and develop recommendations for 11 12 structural, nonstructural, and operational improvements. Such 13 recommendations shall consider and balance water supply, flood control, estuarine salinity, estuarine habitat, and water 14 15 quality considerations. (e) Estuary Protection Plan implementation. -- The 16 coordinating agencies shall be jointly responsible for 18 implementing the Estuary Protection Plan, consistent with the statutory authority and responsibility of each agency. Annual 19 funding priorities shall be jointly established, and the 2.0 21 highest priority shall be assigned to programs and projects 2.2 that have the greatest potential for achieving the goals and 23 objectives of the plan. In determining funding priorities, the coordinating agencies shall also consider the need for 2.4 regulatory compliance, the extent to which the program or 2.5 project is ready to proceed, and the availability of federal 26 2.7 or local government matching funds. Federal and other nonstate 2.8 funding shall be maximized to the greatest extent practicable. (f) Evaluation. -- By March 1, 2012, and every 3 years 29 thereafter, the district, in cooperation with the coordinating 30

agencies, shall conduct an evaluation of any pollutant load

and

reduction goals, or other goals, as stated in the Estuary 2 Protection Plan. Additionally, the district shall identify modifications to facilities of the Estuary Construction 3 4 Project, as appropriate, or any other elements of the Estuary Protection Plan. The evaluation shall be included in the 5 6 annual progress report submitted pursuant to subsection (7). 7 (q) Estuary protection permits. --The Legislature finds that the Estuary Protection 8 Program will benefit the Caloosahatchee and St. Lucie 9 10 estuaries and is consistent with the public interest. Permits obtained pursuant to this subsection are in 11 12 lieu of all other permits under this chapter or chapter 403, 13 except those issued under s. 403.0885, if applicable. No additional permits are required for the Estuary Construction 14 Project, if permitted under this subsection. 15 The department shall issue one or more such permits 16 17 for a term of 5 years upon the demonstration of reasonable 18 assurance that schedules and strategies to achieve and maintain stated qoals of the Estuary Protection Plan have been 19 provided for, to the maximum extent practicable, and that 2.0 21 operation of the projects otherwise complies with provisions 2.2 of ss. 373.413 and 373.416. 23 Permits issued under this paragraph shall also contain reasonable conditions to ensure that discharges of 2.4 2.5 waters through structures: a. Are adequately and accurately monitored; 26 27 Will not degrade existing estuary water quality and 2.8 will result in an overall reduction of pollutant inputs into the estuary and the total maximum daily load established in 29 accordance with s. 403.067, to the maximum extent practicable; 30

1	c. Do not pose a serious danger to public health,
2	safety, or welfare.
3	5. The district shall submit to the department a
4	permit modification to the Estuary Construction Plan permits
5	to incorporate proposed changes necessary to ensure that
6	discharges from the projects covered by this permit achieve
7	state water quality standards, including the total maximum
8	daily loads established in accordance with s. 403.067.
9	6. Such permits shall be issued for a term of 5 years
10	upon the demonstration of reasonable assurances that:
11	a. The Estuary Construction Project facility, based
12	upon the conceptual design documents and any subsequent
13	detailed design documents developed by the district, will
14	achieve the design objectives establish pursuant to this
15	subsection;
16	b. For water quality standards, the quality of water
17	discharged from the facility is of equal or better quality
18	than the inflows;
19	c. Discharges from the facility do not pose a serious
20	danger to public health, safety, or welfare; and
21	d. Any impacts on wetlands or state-listed species
22	resulting from implementation of that facility of the Estuary
23	Construction Project are minimized and mitigated, as
24	appropriate.
25	7. At least 60 days prior to the expiration of any
26	permit issued under this subsection, the permittee may apply
27	for renewal of the permit for a period of 5 years.
28	8. Permits issued under this subsection may include
29	any standard conditions provided by department rule which are
30	appropriate and consistent with this subsection.
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1	9. Permits issued pursuant to this subsection may be
2	modified, as appropriate, upon review and approval by the
3	department.
4	(6)(5) RESTRICTIONS ON WATER DIVERSIONSThe South
5	Florida Water Management District shall not divert waters to
6	the St. Lucie River, the Indian River estuary, the
7	Caloosahatchee River or its estuary, or the Everglades
8	National Park, in such a way that the state water quality
9	standards are violated, that the nutrients in such diverted
10	waters adversely affect indigenous vegetation communities or
11	wildlife, or that fresh waters diverted to the St. Lucie River
12	or the Caloosahatchee or Indian River estuaries adversely
13	affect the estuarine vegetation or wildlife, unless the
14	receiving waters will biologically benefit by the diversion.
15	However, diversion is permitted when an emergency is declared
16	by the water management district, if the Secretary of
17	Environmental Protection concurs.
18	(7) ANNUAL PROGRESS REPORT The district shall report
19	on implementation of this section as part of the consolidated
20	annual report required in s. 373.036(7). The annual report
21	shall include:
22	(a) A summary of water quality and habitat conditions
23	in Lake Okeechobee, the Lake Okeechobee watershed, and the
24	status of the Lake Okeechobee Construction Project.
25	(b) A summary of water quality and habitat conditions
26	in the estuaries and the estuary watersheds and the status of
27	the Estuary Construction Project.
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29	The district shall prepare the report in cooperation with the
30	other coordinating agencies as well as affected local
31	governments.

(8)(6) PRESERVATION OF PROVISIONS RELATING TO THE 2 EVERGLADES .-- Nothing in this section shall be construed to modify any provision of s. 373.4592. 3 (9)(7) RIGHTS OF SEMINOLE TRIBE OF FLORIDA. -- Nothing 4 in this section is intended to diminish or alter the 5 governmental authority and powers of the Seminole Tribe of Florida, or diminish or alter the rights of that tribe, 8 including, but not limited to, rights under the water rights compact among the Seminole Tribe of Florida, the state, and 9 the South Florida Water Management District as enacted by Pub. 10 L. No. 100-228, 101 Stat. 1556, and chapter 87-292, Laws of 11 12 Florida, and codified in s. 285.165, and rights under any 13 other agreement between the Seminole Tribe of Florida and the state or its agencies. No land of the Seminole Tribe of 14 Florida shall be used for water storage or stormwater 15 treatment without the consent of the tribe. 16 17 (10)(8) RELATIONSHIP TO STATE WATER QUALITY 18 STANDARDS. -- Nothing in this section shall be construed to modify any existing state water quality standard. 19 (11)(9) PRESERVATION OF AUTHORITY. -- Nothing in this 2.0 21 section shall be construed to restrict the authority otherwise 22 granted to agencies pursuant to chapters 373 and 403, and 23 provisions of this section shall be deemed supplemental to the authority granted to agencies pursuant to chapters 373 and 2.4 25 403. Section 2. Paragraph (e) of subsection (7) of section 26 27 373.036, Florida Statutes, is amended to read: 2.8 373.036 Florida water plan; district water management 29 plans. --(7) CONSOLIDATED WATER MANAGEMENT DISTRICT ANNUAL 30 REPORT. --31

(e) In addition to the elements specified in paragraph (b), the South Florida Water Management District shall include in the consolidated annual report the following elements: 1. The Lake Okeechobee Protection Program annual progress report required by s. 373.4595(7)(3)(g). 2. The Everglades annual progress reports specified in s. 373.4592(4)(d)5., (13), and (14). 3. The Everglades restoration annual report required by s. 373.470(7). 4. The Everglades Forever Act annual implementation report required by s. 11.80(4). 5. The Everglades Trust Fund annual expenditure report required by s. 373.45926(3). Section 3. This act shall take effect July 1, 2007.