

D R A F T

**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
INDIVIDUAL
WATER USE PERMIT NO. 2011794.00**

EXPIRATION DATE: December 31, 2010

PERMIT ISSUE DATE: October 27,
1998

THE PERMITTEE IS RESPONSIBLE FOR APPLYING FOR A RENEWAL OF THIS PERMIT PRIOR TO THE EXPIRATION DATE IN ACCORDANCE WITH DISTRICT RULES, WHETHER OR NOT THE PERMITTEE RECEIVES PRIOR NOTIFICATION BY MAIL. CONTINUED USE OF WATER AFTER THE EXPIRATION DATE IS A VIOLATION OF DISTRICT RULES, EXCEPT AS OTHERWISE PROVIDED BY APPLICABLE LAW. VIOLATION OF THE CONDITIONS OF THIS PERMIT CONSTITUTES A VIOLATION OF APPLICABLE LAW.

This permit, issued under the provision of Chapter 373, Florida Statutes and Florida Administrative Code 40D-2, authorizes the Permittee to withdraw the quantities outlined herein, and requires various activities to be performed by the Permittee as outlined by the Special Conditions. This permit, subject to all terms and conditions, meets all District permitting criteria.

PROJECT NAME: Alafia River Project

GRANTED TO: Tampa Bay Water, A Regional Water Supply Authority
2535 Landmark Drive, Suite 211
Clearwater, FL 33761

The above named party is considered the Permittee in this document and is solely responsible for performance of the terms and conditions of this permit.

ABSTRACT: It is the Governing Board's intent that the Permittee reduce withdrawals from its existing Central System, comprised of 11 wellfields located in Pasco, Hillsborough and Pinellas Counties; and that reasonable present and future demand be satisfied solely from environmentally sustainable sources of supply. To this end, the District, Tampa Bay Water and its Member Governments, consisting of Pasco, Hillsborough, and Pinellas Counties, City of St. Petersburg, City of Tampa, and City of New Port Richey, entered into the Agreement (Northern Tampa Bay New Water Supply and Ground Water Withdrawal Reduction Agreement) approved May 14, 1998. In general, the agreement consolidates the individual wellfield permits into one permit for the Central System, and outlines a specific time frame, plan of actions and requirements to achieve the withdrawal reductions from the system. Most critical to achieving the Central System reductions is obtaining new environmentally sustainable sources of water supplies to allow for replacement of restricted quantities. Tampa Bay Water prepared a New Water Plan which outlines environmentally sustainable sources of water supplies for replacement of restricted quantities. The District's Governing Board approved the New Water Plan on August 25, 1998. The New Water Plan specifies a number of proposed projects to meet the following objectives; having one or more projects permitted, constructed, in operation and providing at least 38 mgd of new supply to the Central System by December 31, 2002; by December 31, 2007 having the remaining projects permitted, constructed, in operation and providing an additional 47 mgd, for a total of at least 85 mgd of new water supply for regional distribution to the Tampa Bay Water Member Governments. The District will be providing co-funding for eligible projects in accordance with the New Water Sources Funding Agreement

D R A F T

between the District and Tampa Bay Water. This Application represents one of the new water supply source projects of the New Water Plan which is eligible for co-funding.

The water use authorized by this permit is for the purpose of providing additional new water supply quantities for Tampa Bay Water’s Interconnected Regional Water Supply System. The allocation of the water use quantities for replacement and rotation purposes is pursuant to the Agreement.

This is a new application for a surface water withdrawal from the Alafia River to be used for public supply in Tampa Bay Water’s service area located within the Northern Tampa Bay, the Eastern Tampa Bay and the Southern WUCAs (Water Use Caution Areas). This application includes one surface water withdrawal intake structure located on the south side of the Alafia River, at the intersection of Bell Shoals Road and the river. Tampa Bay Water’s interconnected regional water supply system service area includes the communities of Pasco, Hillsborough, and Pinellas Counties, City of St. Petersburg, City of Tampa, and City of New Port Richey. An ERP (Environmental Resource Permit) is required for the implementation of this Water Use Permit. The Permittee has submitted a complete ERP application (# 4918392.00) to the District for this project.

Special Conditions are included to address pertinent concerns. Special Conditions include a withdrawal schedule linked to river flow, comprehensive review/consistency with adopted minimum flows, metering and reporting of pumpage, hydrologic monitoring (water levels, water quality, rainfall, evaporation, streamflow), ecological monitoring and mitigation through an approved HBMP (Hydro-Biological Monitoring Program), complaint investigation and mitigation, WUCA conditions, and submittal of a Surface Water Diversion Annual Report. With the proposed permit conditions applied, the application meets all Chapter 40D-2.301 rule criteria.

WITHDRAWAL QUANTITIES TABLE

TOTAL QUANTITIES AUTHORIZED UNDER THIS PERMIT (in MGD) BASED ON RIVER FLOW AT BELL SHOALS ROAD	
Withdrawal Rate	Alafia River Flow at Bell Shoals Road
0 MGD	< 80 MGD
8 MGD to 51.7 MGD (10% of flow)	80 MGD to 517 MGD
51.7 MGD Maximum	> 517 MGD

Actual quantities are based on percentage withdrawals identified in the **PUMPING SCHEDULE AND AVAILABLE QUANTITIES** Special Condition of this permit. The Maximum Daily withdrawal is limited by system pumping capacity. Refer to Exhibit “A” for historical analysis of flows in the Alafia River as an example of the application of the withdrawal quantities table set forth above.

PROPERTY LOCATION: South Central Hillsborough County, two and half miles south of Bloomingdale Avenue at the intersection of Bell Shoals Road and the Alafia River.

TYPE OF APPLICATION: New **WATER USE CAUTION AREA:**

2. WITHDRAWAL LIMITATIONS

Withdrawals from the Alafia River will be limited to the periods of time when flows in the river, as estimated at Bell Shoals Road using the calculation identified in the **ALAFIA RIVER REGIONAL PUMPING FACILITIES OPERATIONS AND REGULATORY LEVELS** Special Condition of this permit, are greater than 124 cfs (cubic feet per second). Surface water withdrawals may occur at a rate of 10 percent of the total river flow at Bell Shoals Road between 124 to 800 cfs, up to a maximum withdrawal rate of 80 cfs. Based on historical Alafia River flow data from 1977 through 1996 presented in Exhibit "A", surface water quantities available under the withdrawal schedule would yield 7.21 MGD to 28.95 MGD on an Annual Average basis. Since daily withdrawals will be regulated by the withdrawal schedule, as described above, no Annual Average withdrawal quantity is assigned to this permit in order to allow maximum flexibility to meet demands.

3. PUMPING SCHEDULE AND AVAILABLE QUANTITIES

The amount of water diverted from the Alafia River for water supply purposes shall not exceed the quantities listed in Table 1 below.

TABLE 1 WITHDRAWALS FROM THE ALAFIA RIVER

Maximum Withdrawal Rate - MGD / CFS	Alafia River Flow at Bell Shoals Road in MGD (Millions of Gallons Per Day) / CFS (Cubic Feet Per Second)
0 (no Withdrawal)	0 to 80 / 0 to 124
10% of total flow	80 to 517 / 124 to 800
51.7 / 80 cfs	Above 517 / 800

4. SUBMISSION OF DATA AND REPORTS

A. DATA REPORTS

The Permittee shall provide the District with 1 copy of the data reports required by these Special Conditions. All reports of data shall be submitted to the District on or before the 15th day of the month following data collection and shall be addressed to:

Permit Data Section, Records & Data Department
Southwest Florida Water Management District
2379 Broad Street
Brooksville, Florida 34609-6899

B. OTHER REPORTS

For other reports or plans, unless otherwise indicated, the Permittee shall provide to the District 1 original, 1 unbound copy, and 1 copy in acceptable digital format (see paragraph 3.C., below). Unless otherwise specified, all reports required to be submitted by the Permittee to the District pursuant to one or more conditions of this permit shall be submitted as part of the Annual Report required by this permit.

C. FORMAT

All data and reports shall be submitted in writing, and, when feasible and, if prepared, in digital format and medium compatible with the format and medium then utilized by or agreed to by the District.

5. LEGAL CONTROL OF PROPERTY

This permit is issued contingent upon the Permittee's power to acquire the property rights for properties

on which pumps or other withdrawal facilities will be located, as described in the application, through eminent domain; specifically, the properties associated with District ID No. 1, Permittee ID No. ALF-1, (Alafia River withdrawal intake) and the proposed regional pumping facility near the Alafia River. If the property needed for this project is not so conveyed, or if the ownership or other legal control is divided, this permit shall immediately terminate unless the terms of the permit are modified or the permit is transferred pursuant to District rules. In no case shall issuance of this permit convey any property rights to the Permittee.

6. OPERATIONS PLAN

The Operations Plan (Optimized Regional Operations Plan) shall be modified when new water supply capacity is added to Tampa Bay Water's Interconnected Regional Water Supply System. The Permittee shall submit a modification to the Operations Plan which incorporates the Alafia River Project and describes how Tampa Bay Water shall operate its water supply system in a manner to minimize environmental stresses to the 11 Central System Wellfield area. The Permittee shall comply with the Operations Plan and all modifications thereof, as approved by the District.

7. USE OF WITHDRAWAL QUANTITIES

Surface water withdrawal quantities from the Alafia River Project shall be used for the purpose of providing replacement capacity and rotational capacity to the following Tampa Bay Water Central System wellfields as required by the Agreement:

1. Cosme-Odessa Wellfield
2. Cross Bar Ranch Wellfield
3. Cypress Bridge Wellfield
4. Cypress Creek Wellfield
5. Eldridge-Wilde Wellfield
6. Morris Bridge Wellfield
7. Northwest Hillsborough Regional Wellfield
8. North Pasco Wellfield
9. Section 21 Wellfield
10. South Pasco Wellfield
11. Starkey Wellfield

Wellfield replacement and rotational capacity is authorized for the Alafia River facility to reduce flow from the Tampa Bay Water Central System, to optimize withdrawals at wellfields and to relieve environmental stresses. Withdrawal quantities delivered by the Alafia River regional pumping facilities shall be used for existing system demand and documented growth. The identification of wellfields receiving rotation capacity will be determined by Tampa Bay Water's Optimized Regional Operations Plan.

8. MONITORING OF ENVIRONMENTAL CONDITIONS

A. HYDROBIOLOGICAL MONITORING

The Permittee shall develop and implement a HBMP (Hydrobiological Monitoring Program) for the Alafia River. The scope and design of the HBMP shall be based on discussions with District staff and Permittee which shall occur within 60 days of permit issuance and submittal of a draft HBMP within 120 days of permit issuance. The District may solicit outside technical review for design of the HBMP. The final HBMP plan must be approved by the District prior to implementation. The initial date of implementation will be specified in the final approved HBMP plan.

The HBMP shall address the following objectives:

1. Establish baseline conditions prior to permitted use for streamflow rates, salinity distributions, and selected water quality and biological variables within the Alafia River and its estuary.
2. Monitor withdrawals from the Alafia River at the withdrawal point and evaluate streamflow data for

- the river at all applicable locations.
3. Evaluate the ecological relationships of the Alafia River and its estuary to freshwater flows.
 4. Monitor selected water quality and biological variables in order to determine if the ecological characteristics of the river and its estuary related to freshwater flow change over time.
 5. Determine the relative effect of permitted withdrawals from the Alafia River on any ecologic changes that may occur in the river and its estuary.
 6. Determine if these withdrawals cause or significantly contribute to any unacceptable environmental impacts that the river and its estuary exhibit as a result of changes in freshwater flows.
 7. Coordinate with appropriate agencies which have or are currently collecting data which can be incorporated into the HBMP to avoid duplication of effort and to facilitate the most efficient use of resources.

HBMP reports will be submitted to the District according to the time frame established in the final approved HBMP plan. The periodic cycle for these reports will include yearly Data reports and periodic Interpretive reports that will be submitted according to a specific schedule which will be established in the final approved HBMP plan.

On an annual basis, the Permittee shall submit a Data report of all raw data collected during the past year. The Data reports will be submitted in tabular form with text limited to an explanation of variable names and a description of any problems encountered or important observations made during the monitoring year. This information shall be included in the Annual Report for this permit.

At the end of selected years specified in the final approved HBMP plan, the Permittee will submit Interpretive reports that will include comprehensive analyses of all data collected to date that specifically address the objectives of the HBMP. Qualitative and quantitative analyses shall be presented in the Interpretive reports to evaluate the interactions of hydrologic conditions and withdrawals on streamflow, inundation of the river channel and its floodplain, nutrient loading, salinity distributions in the estuary, and the response of related water quality and biological variables. The Interpretive reports will also include an appendix that provides all raw data collected during the previous year, thus fulfilling the requirement for the Annual Report for that year. Upon completion of each cycle of the HBMP, a draft HBMP Interpretive report shall be submitted to the District as part of the overall Annual report. The District shall review and provide written comments within 45 days of the submittal of each draft HBMP Interpretive report. Final Interpretive reports shall be submitted by the Permittee within 90 days of receipt of District comments.

The District will review the results of these reports to determine if the withdrawals have or are expected to result in unacceptable environmental impacts to the natural resources of the Alafia River and its estuary as addressed in Part 4 of the District's Basis of Review for Water Use Permit Applications. If unacceptable environmental impacts have or are expected to occur due to the withdrawals, then the District shall require a revision to the withdrawal schedule.