Annual Alternative Water Supply Report

FY2006

Southwest Florida
Water Management District

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FY2006
Annual Alternative Water Supply Report

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Southwest Florida Water Management District

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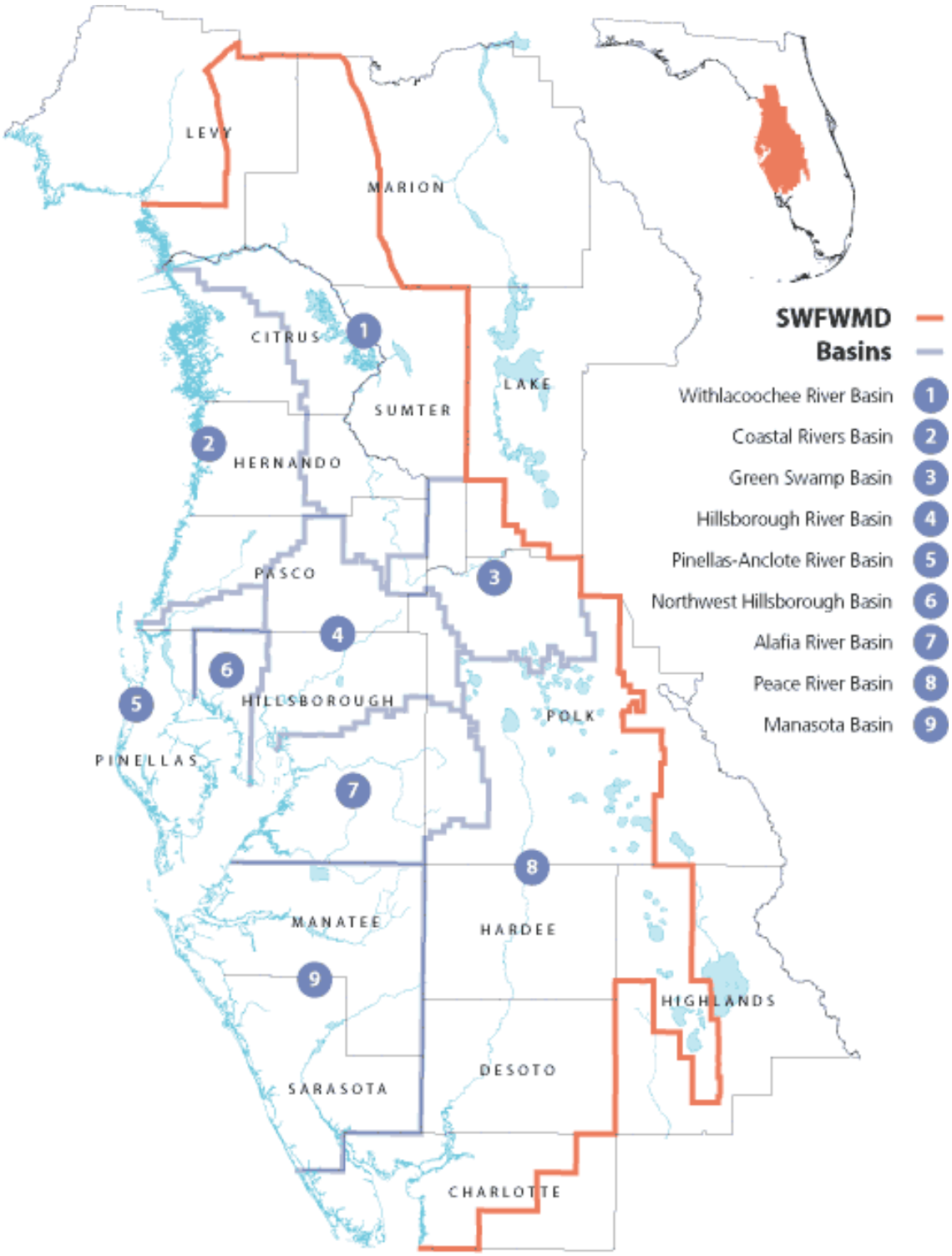
INTRODUCTION

Where Water Resource Caution Areas have been designated, Section 373.1961(2)(a), Florida Statutes, requires the governing boards of the water management districts to include in their annual budgets an amount for the development of alternative water supply systems, including reclaimed water systems. The section, as well as 2005 legislation related to the Water Protection and Sustainability Trust Fund, further requires that each district to submit an annual alternative water supply report to the Governor, the President of the Senate, and the Speaker of the House of Representatives by March 1st of each year. This report describes all funded projects and accounts for funds provided through grants, matching grants, revolving loans, and the use of Southwest Florida Water Management District lands or facilities. The Southwest Florida Water Management District (SWFWMD or District) has designated Water Resource Caution Areas and has implemented alternate water supply funding pursuant to the Florida Statutes. This report is submitted pursuant to the related statutes (FAC 373.1961, 373.036, and 403.890). Because of the unique organization of SWFWMD and its past accomplishments in the areas of water conservation and alternative water source development, the following is provided as background information:

BACKGROUND

The SWFWMD is unique among Florida's water management districts in that, beyond the similar structure of the governing boards, it has nine basins with jurisdictional boundaries encompassing the major watersheds making up the District (Figure 1). In eight of the nine basins population is such that boards have been appointed to address local, sub-regional water resource issues by sponsoring projects in cooperation with local governments, private citizens and private businesses, to improve, protect and restore the water resources of their respective areas. The basin boards, like the Governing Board, have the authority to levy ad valorem taxes up to 0.5 mill within their boundaries. Budget development and approval follow the public hearing and adoption process as required under state law.

The SWFWMD basin boards have been providing local funds for local water resource-related projects since the District’s creation in 1961. Originally, the focus of the basin boards and the Governing Board had been on funding flood control projects. In the late 1980s, the basin priorities began to shift to the identification and funding of projects that focus on water conservation and the development of alternative water sources. Currently, staff and financial resources are focused on issues of water quality, natural systems improvement, flood protection, water conservation, and alternative water source development.


LEVY
MARION
CITRUS
SUMTER
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HERNANDO
PASCO
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Hillsborough River Basin 4
Pinellas-Anclote River Basin 5
Northwest Hillsborough Basin 6
Alafia River Basin 7
Peace River Basin 8
Manasota Basin 9

Before the late 1980s, basin board participation in local water resource projects, both financial and staff support, was primarily driven by requests from local governments. Recognizing the importance of their ability to support local governments by providing solutions to the growing issues surrounding water supply, the basin boards adopted a more pro-active role in addressing local non-regulatory water issues. Initially, there was no set system for receiving project assistance requests, and no criteria regarding timing, project eligibility, funding, and other conditions for participation. The *Cooperative Funding Initiative* was established in recognition of the growing need for a structured approach in order to maximize the basin board's effectiveness in choosing and funding water resource projects and budgeting for their completion.

BASIN BOARD COOPERATIVE FUNDING INITIATIVE

A structured program for solicitation of requests for local water resource projects was established for all basins in the SWFWMD in 1987. Since then, the basin boards have continued to refine their policies in response to changing goals and basin priorities. As a whole, the basins have made noteworthy strides in the areas of water conservation and alternative water sources development.

Although the aforementioned statutes do not require the water management districts to provide information on funding of those projects initiated or completed prior to 1996, a summary of the accomplishments in a few areas of water conservation will provide the recipients of this report with an understanding of the effectiveness of the SWFWMD's programs. It should be noted that the SWFWMD also funds water conservation and alternative water source development projects in addition to those covered by the statutory definitions. Examples of major water conservation efforts are summarized in the District's *Reuse and Conservation Projects Summary Report,* (SWFWMD, 2005).

Table 1: Summary of Reuse Projects

Table 1 on page 5 shows the significant historical financial contributions and alternative water quantities made available as a result of Governing Board and basin board participation in more than 259 reuse projects since FY1987.

The SWFWMD is also involved in many other programs besides those specifically defined in the statute, yet they are saving significant amounts of water. Some program examples are leak detection, drought tolerant landscaping, toilet rebates, water saving ordinance development, industrial and residential water audits, landscape irrigation system efficiency, and many others, including major public education efforts.

TABLE 1
SUMMARY OF REUSE PROJECTS BY BASIN BOARDS AND GOVERNING BOARD

(Including Reuse Projects Funded Through the NWSI Program and WSRD Projects)

Governing Board/ Basin Board(s) Providing Funding	Available Reclaimed Water (GPD)	Gallons of Storage (Million)	Amount ($) Budgeted by District*
Alafia River	7,339,957	12.07	$4,772,852
Coastal Rivers	14,876,055	17.68	$16,981,280
Hillsborough River	14,960,515	28.74	$12,560,531
Manasota	34,344,085	160.79	$21,145,020
NW Hillsborough	14,116,944	21.10	$19,590,336
Peace River	21,372,440	37.00	$19,217,444
Pinellas-Anclote River	61,541,551	123.53	$98,084,375
Withlacoochee River	4,802,135	4.71	$3,078,456
Governing Board	45,952,335	228.78	$30,389,240
Total	**219,306,017**	**634.40**	**$225,819,534**

Source: *Reuse and Conservation Projects Summary Report*, (SWFWMD, 2005).
Note: Amounts do not include water supply projects funded as a result of the Partnership Agreement (see page 16).
*FY1987-FY2006 total of 259 budgeted projects.

NEW WATER SOURCES INITIATIVE (NWSI)

In 1993, the SWFWMD Governing Board recognized the need to accelerate the development of alternative water sources to address the water resource impacts identified in the Southern Water Use Caution Area (SWUCA) and the Northern Tampa Bay Water Use Caution Area (NTBWUCA). The program solicited requests for large, regionally significant projects that would develop non-traditional (other than ground water) sources to offset existing use or provide for future growth. The Governing Board initiated the New Water Sources Initiative (NWSI) program with a $10 million commitment beginning in FY1994, and up to $10 million in each subsequent year. This program is in addition to the Cooperative Funding Initiative.

Eligible NWSI projects generally receive 25 percent of their funding from the District's Governing Board, 25 percent from appropriate basin board(s), and the remaining 50 percent from the local cooperator(s). The 25 percent basin board contribution may be split among two or more basins, depending on the geographical area served by the project. The NWSI program, like the Cooperative Funding Initiative, is administered pursuant to legislative directives to promote and fund alternative source development.

Table 2: Active New Water Sources Initiative Projects

Table 2 identifies the list of active NWSI projects, SWFWMD funding contribution, and water provided. As with the Cooperative Funding Initiative, some projects identified in the report fall outside the requirements of Florida Statutes as to what is considered an alternative source, yet the information is important in understanding the SWFWMD's role in the area of funding water resource protection and development projects.

TABLE 2: ACTIVE NEW WATER SOURCES INITIATIVE PROJECTS

Project (project number)	Local Cooperator	Total Cost* ($)	SWFWMD Contribution* ($)	Water Provided (mgd)
North Pinellas Reuse Interconnects (F028)	Pinellas County	$3,172,300	$1,586,150	3.8
Southern Sarasota County Regional Reuse (F024a, F024b)	Sarasota County and City of Venice	$3,846,800	$1,923,400	3.3
Peace River Regional Reservoir (F032)	PR/MRWSA	$49,000,000	$20,366,000	up to 15
Manatee County Reclaimed Water ASR (F007) *completed in 2005*	Manatee County	$659,171	$329,585	3.6
Section 21 Wellfield Restoration Project (F011)	Tampa Bay Water, St. Petersburg, US EPA	$1,704,000	$439,000	up to 4
Peace River Facility Expansion (F033)	PR/MRWSA	$74,400,000	$22,393,000	up to 15
Manatee Agricultural Reuse Supply M.A.R.S. (F014)	Manatee County	$31,705,000	$11,980,970	20
Polk County Regional Reuse (F035)	Polk County	$1,971,500	$985,750	1.9
Starkey Wellfield Rehydration Pilot Project (F026)	Tampa Bay Water and Pasco County	$510,750	$264,000	up to 30
Recharge / Recovery and the Natural Treatment of Wastewater and Storm water at the Hines Energy Complex (F023, F027) *F023 portions completed*	Florida Power Corp. and Florida Institute of Phosphate Research	$1,693,250	$865,000	up to 12.5
TOTAL		**$168,662,771**	**$61,132,855**	**>109.10**

Table includes only "Active" projects (does not include pre-2005 completed projects).
*Totals may represent multiple year funding.
Does not include Partnership Agreement projects. (See page 16)

WATER SUPPLY AND RESOURCE DEVELOPMENT PROJECTS

As a means to facilitate the implementation options identified in the *SWFWMD Regional Water Supply Plan* (SWFWMD, 2001) or similar projects, the SWFWMD Governing Board and the basin boards initiated another funding opportunity in FY2001 to address large-scale water supply and resource development projects with multiple cooperators and regional benefits. The Water Supply and Resource Development Projects (WSRD) projects receive funding from the Governing Board, multiple basin boards, and from local cooperators. Depending upon the size and scope of the project, some WSRD projects may also involve federal funding.

Many WSRD projects in the Tampa Bay Area have been funded by the District's basin boards according to the same formula used in the Partnership Agreement, as the projects are expected to delay the need for additional traditional water supply infrastructure for Tampa Bay Water. The financial formula is reflective of the proportional benefits anticipated to be realized by each of the basins, and the collective basin board funding is then matched by the Governing Board. As such, eligible WSRD projects generally receive 25 percent of their funding from the District's Governing Board, 25 percent from the collective basin boards, and the remaining 50 percent from local cooperators. The Tampa Bay Regional Reclaimed Water and Downstream Augmentation Project (TBRRAP) is an example of this.

Table 3: Active Water Supply and Resource Development Projects

Table 3 identifies the list of active WSRD projects, SWFWMD funding contribution, and water provided. As with the Cooperative Funding Initiative and the NWSI, some projects identified in the table may fall outside the requirements of Florida Statutes as to what is considered an alternative source, yet the information is important in understanding the SWFWMD's role in the area of funding water resource protection and development projects.

TABLE 3: ACTIVE WATER SUPPLY AND RESOURCE DEVELOPMENT PROJECTS

Project (project number)	Local Cooperator	Total Cost* ($)	SWFWMD Contribution* ($)	Water Provided (mgd)
Falkner-Flatford Swamp Water Withdrawal (H001)	Falkner Farms	$3,138,600	$1,569,300	0.76
Lake Hancock Lake Level Modification (H008)	District	$2,300,000	$2,300,000	TBD
Lake Hancock Outfall Structure P-11 Modification (H009)	District	$5,000,000	$5,000,000	TBD
Hillsborough County Central Coastal Area Reclaimed Water ASR (H010)	Hillsborough County	$1,500,000	$500,000	ASR Storage
Largo/Clearwater/Pasco-ASR/Interconnect (H012)	Clearwater, Largo	$10,063,200	$5,006,600	3.00
Lake Hancock Outfall Wetland Treatment System (H014)	District	$16,359,574	$13,609,574	TBD
Shell/Joshua/Prairie Creeks Well Rehabilitation (H015)	District	$1,141,234	$1,141,234	TBD
Punta Gorda Potable Water ASR Expansion Study (H016)	City of Punta Gorda	$144,768	$72,384	Study
Facilitating Agricultural Resource Management Systems "FARMS" (H017)	State of Florida, Florida Dept. of Agriculture and Consumer Services (FDACS)	$7,909,248	$3,659,248	TBD
Upper Myakka FARMS Program (H018)	State of Florida, FDACS	$850,000	$300,000	TBD
Water Planning Alliance Regional System Planning & Engineering Study (H023)	PR/MRWSA	$500,000	$250,000	Study
Upper Peace River Resource Development Study (H024)	District	$1,679,379	$1,429,379	Study
Heartland Alliance Water Supply Plan (H025)	Counties of Polk, Hardee, Highlands, DeSoto	$500,000	$300,000	TBD
Charlotte County Regional Reclaimed Water Expansion (H027)	Charlotte County	$5,799,000	$3,100,500	0.83
Polk County Utilities Southwest Regional Reuse Phase II Expansion (H028)	Polk County	$2,173,500	$1,086,750	Storage and Pumping
Polk County Utilities Northwest Regional Reuse Phase I Expansion (H029)	Polk County	$1,700,500	$850,250	Storage and Pumping

TABLE 3: ACTIVE WATER SUPPLY AND RESOURCE DEVELOPMENT PROJECTS (continued from previous page)

Project (project number)	Local Cooperator	Total Cost* ($)	SWFWMD Contribution* ($)	Water Provided (mgd)
Starkey/North Pasco Wellfield Infrastructure (H030)	City of Tampa	$22,500,000	$11,250,000	TBD
Peace Creek Canal Watershed (H034)	District	$1,650,000	$1,000,000	TBD
Peace Regional Loop Feasibility (H036)	PRMRWSA	$500,000	$250,000	Feasibility
Withlacoochee Regional Water Supply Plan (H037)	WRWSA	$300,000	$150,000	Plan
PRMRWAS ASR Monitoring Wells (H038)	PRMRWSA	$1,050,000	$525,000	TBD
City of Lakeland Aquifer Performance Test (H039)	City of Lakeland	$479,750	$150,000	TBD
Pasco County Central/East Regional Reclaimed Water Interconnect (H040)	Pasco County	$3,800,000	$2,249,600	TBD
Pasco County South/East Regional Reclaimed Water Loop (H041)	Pasco County	$1,330,000	$784,700	TBD
Marion County Water Resource Assessment (H042)	Marion County	$595,483	$150,000	TBD
Cypress Creek Wellfield Management (H043)	Tampa Bay Water	$2,764,296	$1,055,516	TBD
Polk County Water Supply Planning (H045)	Polk County	$60,000	$30,000	TBD
TBRRAP-North Tampa Reclaimed Water Pipeline (H301)	City of Tampa	$42,800,000	$24,745,500	3.00
TBRRAP-Pasco County New River West Regional Reclaimed Water (H302)	Pasco County	$693,000	$346,500	4.10
TBRRAP-North Tampa Regional Reclaimed Water Pipeline Phase II (H303)	Tampa	$42,300,000	$21,150,000	7.80
TBRRAP-Pasco County Regional Reuse Interconnect (H304)	Pasco County	$1,114,000	$557,000	10.00
TBRRAP-Pasco County Wet Weather Reuse Reservoirs (H305)	Pasco County and SWFWMD	$7,730,000	$5,800,000	10.00
TBRRAP-Tampa Bay Water Downstream Augmentation Project (H306)	Tampa Bay Water	$71,800,000	$35,900,000	14.00
TBRRAP-Pasco County Central Regional Reuse Interconnect, Storage, and Pumping (H307)	Pasco County	$9,192,200	$4,596,100	TBD
TBRRAP-South Hillsborough Area Reuse Exchange "SHARE" (H308)	Hillsborough County	$17,600,000	$8,800,000	4.20

TABLE 3: ACTIVE WATER SUPPLY AND RESOURCE DEVELOPMENT PROJECTS (continued from previous pages)

Project (project number)	Local Cooperator	Total Cost* ($)	SWFWMD Contribution* ($)	Water Provided (mgd)
TBRRAP-South Hillsborough ASR & Reservoir Project "SHARP" (H309)	Hillsborough County	$15,000,000	$7,500,000	10.00
TBRRAP-Regional Reclaimed Water Interconnect to Hillsborough County and Tampa Bay Water (H310)	Hillsborough County and Tampa Bay Water	$6,600,000	$3,300,000	TBD
TOTAL		**$310,617,732**	**$170,485,135**	**>67.69**

*Totals may represent multiple year funding, and may also include WPSTF funding.
Table includes only "Active" projects (does not include completed projects).
Does not include Partnership Agreement projects. (See page 16)

WATER PROTECTION AND SUSTAINABILITY TRUST FUND PROJECTS

In 2005 the Florida Legislature recognized the need to accelerate the development of alternative water sources within the State. Large areas of Florida do not have sufficient traditional water resources to meet the future needs of the State's growing population and the needs of the environment, agriculture, and industry.

In 2005, legislation was passed and signed into law creating the Water Protection and Sustainability Trust Fund (WPSTF). The new legislation focuses on encouraging cooperation in the development of alternative water supplies and improving the linkage between local governments' land use plans and water management districts' regional water supply plans.

The State of Florida allocated $100 million dollars in FY2005, with $25 million allocated to the SWFWMD. Future state funding is anticipated to be approximately $60 million annually, with $15 million allocated to the SWFWMD. Funding will be expended on a reimbursement basis for construction costs of alternative water supply development projects as defined in the legislation. The legislation also requires that a minimum of 80 percent of the WPSTF funding must be related to projects identified in a district water supply plan. In the SWFWMD, the *SWFWMD Regional Water Supply Plan* (RWSP) is utilized in the identification of the majority of WPSTF eligible projects. Identified projects are further evaluated as to their suitability for this funding program. The identification of alternative water supply development projects in the RWSP does not guarantee funding assistance through this funding program.

Projects are evaluated for funding based on consideration of the 12 factors described in 373.1961(3)(f) and (g), *Florida Statute* (2005), and additional District evaluation factors as appropriate. Funding for each project is equivalent to up to 40 percent of construction costs. Projects funded through this program may also receive funding from other sources such as the Governing Board, multiple basin boards, federal agencies and local cooperators.

Table 4: Water Protection and Sustainability Trust Fund Projects

The SWFWMD has selected a total of 19 alternative water supply projects to receive 2005 funds from the new WPSTF. These projects were identified through the District's ongoing cooperative funding programs, which have been funding alternative water supply development for two decades. Three additional projects, developed in cooperation with regional water supply authorities and their member governments, have also been identified as eligible to receive funds. The District's list of projects is subject to change, in terms of the projects included and the amount of funding allocated, based upon negotiation of funding agreements with local cooperators.

Table 4 identifies the list of WPSTF projects, SWFWMD funding, cooperator funding, funding from other sources as well as the amount of water provided. Some projects identified in the table are also listed in other tables, depending upon the source of SWFWMD funding. The Appendix of this report contains a brief description of the projects identified in Table 4.

In addition to the 19 projects listed in Table 4, the SWFWMD has identified the following three additional projects as eligible for receiving the remaining state funds ($20,488,231):

- Tampa Bay Regional Reclaimed Water and Downstream Augmentation, (*The project is located in Hillsborough and Pasco counties, but will benefit all of the Tampa Bay Water service area, including not only Hillsborough and Pasco counties but Pinellas County as well*)
- Peace River/Manasota Regional Water Supply Authority (PR/MRWSA) Reservoir Expansion, and
- PR/MRWSA Facility Expansion (*The projects are located in DeSoto County, but serves the Peace River/Manasota Regional Water Supply Authority*).

However, at this time, the applicants and District have not yet fully appropriated their construction matching funds. The match requirement will be met at the time the contract agreements are approved, which is expected within the next year.

TABLE 4: WATER PROTECTION AND SUSTAINABILITY TRUST FUND PROJECTS

Project (project number)	Local Cooperator	State WPSTF Contribution ($)	FY2006 SWFWMD Contribution ($)	Local Cooperator Contribution ($)	Total Project Cost ($)	Water Provided (mgd)
Charlotte County Regional Reclaimed Water (H027)	Charlotte County	$400,000	$800,000	$800,000	$5,799,000	0.83
Pasco County Central/East Reclaimed Water (H040)	Pasco County	$699,197	$1,550,400	$1,550,400	$3,800,000	TBD
Pasco County SE Regional Reclaimed Water (H041)	Pasco County	$239,405	$545,300	$545,300	$1,330,000	TBD
Lake Tarpon ASR Phase IV(K422)	Pinellas County	$340,000	$680,000	$680,000	$1,700,000	0.27
South Tampa Area Reuse Ph. 2 (K655)	City of Tampa	$926,800	$2,979,758	$1,853,602	$22,000,000	5.00
Lake Placid Reuse (L153)	City of Lake Placid (REDI)	$117,420	$331,124	$138,556	$1,374,200	0.09
Brooksville US 41 Service Area Reuse System (L169)	City of Brooksville	$216,130	$829,132	$829,132	$4,560,140	1.92
Clearwater Morningside Area Reclaimed Water Transmission & Distribution (L254)	City of Clearwater	$400,000	$800,000	$2,050,000	$4,500,000	0.59

TABLE 4: WATER PROTECTION AND SUSTAINABILITY TRUST FUND PROJECTS (continued from previous page)

Project (project number)	Local Cooperator	State WPSTF Contribution ($)	FY2006 SWFWMD Contribution ($)	Local Cooperator Contribution ($)	Total Project Cost ($)	Water Provided (mgd)
Connerton Reclaimed Water Transmission and Storage (L270)	Pasco County	$216,632	$433,262	$433,262	$2,966,316	2.00
Hillsborough County Lithia-Pinecrest Reuse Water Transmission (L294)	Hillsborough County	152,416	$604,833	$604,833	$4,500,000	3.50
Lake Bernadette Golf Course Reuse Storage Pond and Pump Station (L431)	Pasco County	100,300	$244,850	$244,850	$590,000	0.18
Cannon Ranch Reclaimed Water (L436)	Pasco County	102,780	$234,110	$234,110	$571,000	3.50
Inverness Reclaimed Water Transmission Main (L468)	Citrus County	39,500	$330,250	$330,250	$2,010,000	0.96
Polk County North East Regional Reclaimed Water Storage (L475)	Polk County	134,704	$782,648	$782,648	$3,880,000	3.00
Charlotte County Golf Course Reuse Storage (L485)	Charlotte County	$120,328	$293,743	$293,743	$1,300,000	0.89

TABLE 4: WATER PROTECTION AND SUSTAINABILITY TRUST FUND PROJECTS (continued from previous pages)

Project (project number)	Local Cooperator	State WPSTF Contribution ($)	FY2006 SWFWMD Contribution ($)	Local Cooperator Contribution ($)	Total Project Cost ($)	Water Provided (mgd)
City of Sarasota Reuse/Payne Park (L500)	City of Sarasota	$125,000	$250,000	$250,000	$625,000	0.10
Bradenton Potable ASR Program (L513)	Manatee County	$120,000	$590,000	$590,000	$1,900,000	2.00
Aqua Utilities Lakewood Ranch Reuse (L522)	Aqua Utilities	$54,644	$154,827	$154,827	$364,300	1.57
Sarasota County Reclaimed Water ASR & UV (L527)	Sarasota County	$6,514	$286,743	$286,743	$3,413,546	3.00
TOTAL[1]		**$4,511,770**	**$12,720,980**	**$12,652,256**	**$67,183,502**	**31.00**

1. In addition to the 19 projects listed in Table 4, the SWFWMD has identified three additional projects as eligible for receiving the remaining $20,488,230 in State funds (see report text for specifics).

THE PARTNERSHIP AGREEMENT
Northern Tampa Bay New Water Supply and Groundwater Withdrawal Reduction Agreement

The Partnership Agreement provides for the development of new and alternative water supply and reduction of pumpage from Tampa Bay Water's Northern Tampa Bay wellfields.

Background

Floridians rely on ground water, pumped from underground aquifers, as their principal water supply source. In the Tampa Bay region, an over-reliance on ground water has resulted in adverse environmental impacts to lakes, wetlands, and the ecology. This led to years of conflict between water regulators, water suppliers, and property owners. Many of these conflicts were aired in administrative hearings and the court systems for many years without resolution.

Seeking a cooperative solution to the region's water problems, the SWFWMD proposed a plan among itself, Tampa Bay Water (formerly known as the West Coast Regional Water Supply Authority), and its six member governments (Hillsborough County, Pinellas County, Pasco County, and the cities of Tampa, St. Petersburg, and New Port Richey) for the development of new water supply and phased reduction of pumping from the 11 central system wellfields. Discussions of the plan began in 1997. After many months of negotiations, the "Partnership Agreement" was executed by all parties on May 27, 1998.

Objectives of the Partnership Agreement

The Partnership Agreement has three objectives: (1) Develop at least 85 million gallons per day (mgd) of new water supply by December 31, 2007, of which 38 mgd must be produced by December 31, 2002; (2) Reduce groundwater pumpage at 11 wellfields from 158 mgd to 121 mgd by 2002 and to 90 mgd by 2007; (3) End existing and minimize future litigation; and (4) Provide funding to assist in the development of the new alternative supply.

Elements of the Partnership Agreement

To assist Tampa Bay Water to meet the goal of developing at least 85 mgd of new water supply, the SWFWMD committed $183 million in funding assistance to develop new alternative water supply sources. Projects eligible for District funding include seawater desalination, surface water supply facilities, indirect potable reuse, and inter-connecting pipelines.

In addition, the District has committed to provide approximately $90 million over ten years toward conservation projects within the Tampa Bay area. The District's funding goal will be matched by Tampa Bay Water and local governments. The Partnership Agreement also includes conservation goals to reduce regional water use by 10 mgd by 2000, and by an additional 7 mgd by 2005.

The Partnership Agreement required Tampa Bay Water to develop a "New Water Plan." The New Water Plan must describe potential projects which, upon construction, will meet the objective of developing at least 38 mgd of new supply by 2003 (December 31, 2002), and at least 85 mgd of new water per day by 2007. The New Water Plan was approved by SWFWMD and a list of projects that are "eligible" for SWFWMD funding was provided to Tampa Bay Water.

A key element of the Partnership Agreement is the implementation of a recovery strategy for the Northern Tampa Bay area. Under the Partnership Agreement, ground water pumpage at the 11 wellfields will be reduced from permitted quantities of 158 mgd to 90 mgd by 2007. Water use permits for the 11 wellfields have been consolidated into a single permit. As part of the recovery strategy, Tampa Bay Water will also optimize water production from the wellfields to minimize environmental impacts.

What the Partnership Agreement Means to the Tampa Bay Region

The implementation of the Partnership Agreement represents a substantial step toward cooperative resolution of regional water resource problems. Through this innovative effort, water regulators and suppliers are working together to develop new and alternative water supply sources and to reduce environmental impacts due to overpumping of the ground water resource.

The Partnership Agreement is a landmark achievement. This progressive, inter-agency approach to solving water problems may serve as a model to other areas that face similar water supply and environmental challenges.

Table 5: Partnership Agreement Projects

Table 5 includes alternative water supply projects budgeted for Partnership Agreement funding. The SWFWMD is providing $183 million budgeted over fiscal years 1995 to 2007 for the development of these projects. The Appendix of this report contains a brief description of the projects identified in Table 5.

TABLE 5

PARTNERSHIP AGREEMENT PROJECTS

Project	Completion Date (Projected)	Capital Cost (Est)	SWFWMD Funding (FY 2006 Amount*)	SWFWMD Funding (Eligible Amounts**)	Design Capacity (Produced)
North-Central Intertie	2001	$47,000,000	*	$23,000,000	N/A
Enhanced Surface Water System				Up To $69,500,000	66 mgd
Tampa Bay Regional WTP	2002				
Groundwater/Pumps/Stor	2002	$31,000,000	*		
Surface Water	2002	$94,000,000	*		
Repump Station	2002	$10,000,000	*		
Tampa Bypass Canal Pipe	2002	$16,000,000	*		
Alafia River	2002	$12,000,000	*		
South-Central Intertie	2002	$70,000,000	*		
T Bay Regional Reservoir	2005	$121,000,000	*		
Seawater Desal I	2002	$110,000,000	*	Up To $85,000,000	25 mgd***
Brandon/South Central Connection	2003	$12,000,000	*	$5,500,000	N/A
Totals		**$523,000,000**	**$15,140,534**	**$183,000,000**	**91 mgd**

*Represents only FY2006 budgeted amount; individual project funding is not allocated to specific fiscal years.
**Represents Total SWFWMD FY 1995 - FY 2007 funding commitment for projects.
***Expandable to 35 mgd.

2006 ANNUAL REPORT INFORMATION

As defined in the Florida Statutes, alternative water supplies are "supplies of water that have been reclaimed after one or more public supply, municipal, industrial, commercial, or agricultural uses, or are supplies of stormwater, or brackish or salt water, that have been treated in accordance with applicable rules and standards sufficient to supply the intended use." Pursuant to the requirements of the statutes, the following tables and associated narrative identify all such projects, associated funding, and provide a short description of their benefits.

Table 6: FY2006 Budgeted Amounts

Table 6 on page 20, summarizes the total annual budgeted amounts for the past ten fiscal years (FY1997-2006) by the SWFWMD for alternative water supply category projects. The funding of projects requiring large capital investments with construction spanning several years is normally spread out over multiple fiscal years due to the need to have funds available when costs are expected to occur, and also due to the annual funding amounts available in the budgets of each basin or the Governing Board. *Note: The funding amounts shown, as in subsequent tables, represent only SWFWMD contributions; equal or exceeding matching funds are provided by the cooperator.*

Table 7: Funding Classification

Table 7 on page 21, classifies the FY1997-2006 budgeted amounts into funding types. As indicated, the SWFWMD's funding focus has been on matching grant type of cooperative funding programs.

TABLE 6: SWFWMD BUDGETED AMOUNTS

ALTERNATIVE WATER SOURCE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006
Reclaimed Wastewater	$20,964,848	$17,462,595	$12,527,821	$16,013,189	$14,923,351	$18,820,038	$18,999,847	$19,373,952	$18,441,017	$29,378,507
Reclaimed Stormwater*	$0	$0	$0	$0	$188,115	$200,000	$23,000	$200,000	$81,245	$1,219,250
Desalination of Brackish Water	$0	$0	$0	$0	$442,500	$0	$58,979	$26,623	$247,060	$16,834
Partnership Agreement Projects	$11,582,008	$13,779,148	$14,709,464	$17,557,017	$16,645,345	$14,647,831	$15,140,538	$15,140,536	$15,140,536	$15,140,534
Indirect Potable Reuse	**	**	**	$0	$0	$0	$0	$0	$0	$0
Desalination of Seawater	**	**	**	**	**	**	**	**	**	**
SWFWMD Allocated **Unallocated** **WPSTF** Totals	**$32,546,856**	**$31,241,743**	**$27,237,285**	**$33,570,206**	**$32,199,311**	**$33,667,869**	**$34,222,364**	**$34,741,111**	**$33,909,858**	**$45,755,125** **$20,488,230** **$66,243,355**

*The Hines Energy Project utilizes stormwater; however, all funding and gallons provided(all pre-FY2000) were included under the reclaimed wastewater category.
**All FY1997-2006 Indirect Potable Reuse and Desalination of Seawater funding has been reallocated to the Partnership Agreement Projects, please see Table 5.

TABLE 7: FUNDING CLASSIFICATION

FUNDING TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006
Direct Grants	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Matching Grants	$32,546,856	$31,241,743	$27,237,285	$33,570,206	$32,199,311	$33,667,869	$34,222,364	$34,741,111	$33,909,858	$66,243,355
Revolving Loans	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Use of District Land/ Facilities	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SWFWMD TOTALS	**$32,546,856**	**$31,241,743**	**$27,237,285**	**$33,570,206**	**$32,199,311**	**$33,667,869**	**$34,222,364**	**$34,741,111**	**$33,909,858**	**$66,243,355**

Table 8: Alternative Source Type: Wastewater Reuse

In funding reclaimed water projects, the District requires that at least 50 percent of the reclaimed water supplied must offset existing or planned ground or surface water withdrawals in order to qualify for funding consideration (projects prior to 2001 were required to achieve a 25 percent offset). This requirement is intended to increase the efficiency of reclaimed water projects to reduce the use of potable quality water for outdoor landscape irrigation and, where allowed by state regulations, to provide an alternative source for agricultural irrigation. Table 8 identifies all reuse projects that will receive funding in FY2006.

Table 8 on page 22 lists Cooperative Funding Initiative, NWSI, WSRD and WPSTF reuse projects. The table also identifies funds allocated in FY2006 by basin board(s) and the Governing Board, and includes the total funding commitment of the SWFWMD. The total funding commitment represents previous and projected year funding by the SWFWMD. Funding of projects requiring large capital investments with construction spanning several years is normally spread out over multiple fiscal years for two reasons: The first reason is the need to have funds available when costs are expected to occur, and the second reason is the annual funding amounts available in the budgets of each basin board or the Governing Board. Table 8 also includes the projected alternative supply amount (gallons) provided by the project. The Appendix of this report contains a brief description of the projects identified in Table 8.

TABLE 8

ALTERNATIVE SOURCE TYPE: Wastewater Reuse

Project Name (project number)	**FY2006 Budgeted Amount**				**Gallons Provided*** (gpd)
	Basin(s)	**Governing Board**	**Total FY2006 Amount*** **	**Total SWFWMD Amount****	
TBRRAP- North Tampa Reclaimed Water Pipeline (H301)	$1,051,305	$940,055	$1,991,360	$24,745,500	3,000,000
TBRRAP- North Tampa Regional Reclaimed Water Pipeline Phase II (H303)	$1,359,643	$1,359,643	$2,719,286	$21,150,000	7,800,000

TABLE 8

ALTERNATIVE SOURCE TYPE: Wastewater Reuse (continued from previous page)

Project Name (project number)	FY2006 Budgeted Amount				Gallons Provided* (gpd)
	Basin(s)	Governing Board	Total FY 2006 Amount***	Total SWFWMD Amount**	
TBRRAP-Pasco County Wet Weather Reclaimed Water Reservoirs (H305)	$235,000	$206,429	$441,429	$5,800,000	4,000,000
TBRRAP-Tampa Bay Water Downstream Augmentation Project (H306)	$2,236,603	$2,236,603	$4,473,206	$35,900,000	14,000,000
TBRRAP-Pasco County Central Regional Reuse Interconnect, Storage and Pumping (H307)	$295,490	$295,489	$590,979	$4,596,100	6,000,000
TBRRAP-South Hillsborough Area Reuse Exchange Project (H308)	$565,714	$565,714	$1,131,428	$8,800,000	4,200,000
TBRRAP-South Hillsborough ASR & Reservoir Project (H309)	$482,143	$482,143	$964,286	$7,500,000	10,000,000
TBRRAP-Regional Reclaimed Water Interconnect to Hillsborough County and Tampa Bay Water (H310)	$212,142	$212,143	$424,284	$3,300,000	TBD
Charlotte County Utilities Regional Reuse Expansion (H027)	$400,000	$400,000	$800,000 $400,000	$3,099,500	830,000
Pasco East/Central Regional Interconnect (H040)	$775,200	$775,200	$1,550,400 $699,200	$2,249,600	TBD
Pasco Southeast Reclaimed Water Loop (H041)	$272,650	$272,650	$545,300 $239,400	$784,700	TBD

TABLE 8

ALTERNATIVE SOURCE TYPE: Wastewater Reuse (continued from previous pages)

Project Name (project number)	FY2006 Budgeted Amount				Gallons Provided* (gpd)
	Basin(s)	Governing Board	Total FY2006 Amount***	Total SWFWMD Amount**	
South Tampa Area Reuse Ph. 2 (K655)	$2,979,758	$0	$2,979,758 $926,800	$12,586,123	5,000,000
Lake Placid Reuse (L153)	$331,124	$0	$331,124 $117,420	$962,574	95,000
City of Brooksville Construction of US-41 South Service Area Reuse System (L169)	$829,132	$0	$829,132 $216,130	$2,388,135	200,000
Clearwater Morningside Reuse Transmission and Distribution (L254)	$800,000	$0	$800,000 $400,000	$2,450,000	548,100
Pasco Co. Connerton Reuse Transmission and Storage (L270)	$433,262	$0	$433,262 $216,632	$904,053	2,000,000
Hillsborough Lithia Pinecrest Reuse Transmission (L294)	$604,833	$0	$604,833 $152,416	$1,876,208	3,500,000
Clearwater Reuse Meter Retrofit (L402)	$825,000	$0	$825,000	$825,000	TBD
Pasco Co. Lake Bernadette Golf Reuse Storage & Pumping (L431)	$244,850	$0	$244,850 $100,300	$344,850	180,000
Pasco Co. Cannon Ranch Reuse Transmission (L436)	$234,110	$0	$234,110 $102,780	$336,890	3,500,000
City of Inverness Reuse Transmission (L468)	$330,250	$0	$330,250 $39,500	$1,024,750	757,000
Polk Co. NE Reuse Storage Expansion (L475)	$782,648	$0	$782,648 $134,704	$2,009,133	TBD

TABLE 8

ALTERNATIVE SOURCE TYPE: Wastewater Reuse (continued from previous pages)

Project Name (project number)	FY2006 Budgeted Amount				Gallons Provided* (gpd)
	Basin(s)	Governing Board	Total FY2006 Amount***	Total SWFWMD Amount**	
Winter Haven Reuse Master Plan (L483)	$50,000	$0	$50,000	$50,000	TBD
Charlotte Co. Golf Reuse Storage (L485)	$293,743	$0	$293,743 $120,328	$414,071	TBD
DeSoto Corrections Reuse Feasibility (L491)	$37,500	$0	$37,500	$37,500	TBD
City of Sarasota Payne Park Reuse (L500)	$250,000	$0	$250,000 $125,000	$375,000	100,000
City of Bradenton Reuse Feasibility (L515)	$30,000	$0	$30,000	$30,000	TBD
Aqua Utilities Lakewood Ranch Reuse (L522)	$154,827	$0	$154,827 $54,645	$209,472	570,000
Sarasota Co. ASR & UV (L527)	$286,743	$0	$286,743 $6,514	$1,710,030	TBD
City of Dundee Reuse (L553)	$204,000	$0	$204,000	$3,012,000	830,000
TOTALS	**$15,176,722**	**$7,746,069**	**$29,378,507**	**$149,471,189**	**>65,320,000**

***Total represents FY2006 District budgeted amounts and may include FY2005 WPSTF funding (listed in second row of total FY2006 funding).
**Total SWFWMD commitment represents projects that have been or will be funded over multiple years.
*Represents total project gallon amounts (GPD).

Table 9: Alternative Source Type: Reclaimed Stormwater

In funding reclaimed stormwater projects, the District requires that at least 50 percent of the reclaimed water must offset existing or planned ground or surface water withdrawals in order to qualify for funding consideration. This requirement is intended to increase the efficiency of reclaimed water projects to reduce the use of potable quality water for outdoor landscape irrigation and, where allowed by state regulations, to provide an alternative source for agricultural irrigation.

Table 9 (below) identifies the reclaimed stormwater projects that will receive funding in FY2006. The table also identifies funds allocated in FY2006 by basin board(s) and the Governing Board, and includes the total funding commitment of the SWFWMD. The total funding commitment represents previous and projected year funding by the SWFWMD. As previously stated, funding of projects requiring large capital investments with construction spanning several years is normally spread out over multiple fiscal years for two reasons. The first reason is the need to have funds available when costs are expected to occur; and the second reason is the annual funding amounts available in the budgets of each basin or the Governing Board. Table 9 also includes the projected alternative supply amount (gallons) provided by the projects. The Appendix of this report contains a brief description of the projects identified in Table 9.

TABLE 9

ALTERNATIVE SOURCE TYPE: Reclaimed Stormwater

Project Name (project number)	**FY2006 Budgeted Amount**				**Gallons Provided*** (gpd)
	Basin(s)	**Governing Board**	**Total FY2006 Amount*** **	**Total Amount****	
Pinellas County Reclaimed Supplemental Supply (*Lake Tarpon stormwater reuse project*) (L375)	$100,000		$100,000	$100,000	TBD
Pinellas County Lake Tarpon ASR (*Lake Tarpon stormwater reuse project*) (K422)	$680,000		$680,000 $340,000	$1,798,678	TBD
Hillsborough Co. Stormwater Recovery and Wetlands Creation Feasibility (L444)	$99,250		$99,250	$99,250	TBD
Totals	**$879,250**		**$1,219,250**	**$1,997,928**	**TBD**

***Total represents District FY2006 budgeted amounts and may include FY2005 WPSTF funding. .
**Total SWFWMD commitment represents projects that have been or will be funded over multiple years.
*Represents total project gallon amounts (GPD).

Table 10: Alternative Source Type: Desalination of Brackish Water

Table 10 (below) identifies the desalination of brackish water project that will receive funding in FY2006. The table also identifies funds allocated in FY2006 by basin board(s) and the Governing Board, and includes the total funding commitment of the SWFWMD. The total funding commitment represents previous and projected year funding by the SWFWMD. As previously stated, funding of projects requiring large capital investments with construction spanning several years is normally spread out over multiple fiscal years for two reasons. The first reason is the need to have funds available when costs are expected to occur; and the second reason is the annual funding amounts available in the budgets of each basin or the Governing Board. Table 10 also includes the projected alternative supply amount (gallons) provided by the project. The Appendix of this report contains a brief description of the project identified in Table 10.

TABLE 10

ALTERNATIVE SOURCE TYPE: Desalination of Brackish Water

Project Name (project number)	**FY2006 Budgeted Amount**				**Gallons Provided*** (gpd)
	Basin(s)	**Governing Board**	**Total FY2006 Amount*** **	**Total Amount****	
Evaluation of Offshore Brackish Water Springs (B075)	$16,834		$16,834	$169,694	TBD
Totals	**$16,834**		**$16,834**	**$169,694**	**TBD**

***Total represents District FY2006 budgeted amounts and may include FY2005 WPSTF funding. .
**Total SWFWMD commitment represents projects that have been or will be funded over multiple years.
*Represents total project gallon amounts (GPD).

CONCLUSION

The Southwest Florida Water Management District has developed an aggressive alternative water supply development program through the efficient utilization of the resources available to its eight basin boards, the Governing Board and the Florida Legislature. The SWFWMD is committed to identifying and assisting with appropriate solutions to the water resource problems within its area by providing technical and financial support in developing alternative water supplies. The SWFWMD has a long history of commitment to cooperative efforts with state and local governments, private industry, and the public at large through the sponsoring of research, flood studies, conservation, natural system improvements, water quality and, most recently, the shift in emphasis to the development of alternative water supplies. The SWFWMD is confident in its mission to find and maintain adequate and ecologically sustainable resources within its boundaries.

APPENDIX

(Projects with FY2006 Funding)

Project Name: TBRRAP - North Tampa Reclaimed Water Pipeline Design and Construction of Phase 1 (H301)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Tampa
District: Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Withlacoochee River, and Pinellas-Anclote River Basin Boards, Governing Board
Locale: Hillsborough County
Project Description: Design and construction of the North Tampa Reclaimed Water Pipeline and construction of the first segment of Tampa's three-segment reclaimed water system to the city's northeast area, including "New Tampa" and terminating with an interconnection to the Pasco County reclaimed water system. The reclaimed water provided by this first phase will be for irrigation and to help meet Minimum Flows and Levels downstream of the Hillsborough River Dam. The project is a key element in the plans for regional utilization of Tampa's reclaimed water.

Project Name: TBRRAP - North Tampa Reclaimed Water Pipeline Design and Construction of Phase 2 (H303)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Tampa
District: Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Withlacoochee River, and Pinellas-Anclote River Basin Boards, Governing Board
Locale: Hillsborough County
Project Description: Design and construction of the North Tampa Reclaimed Water Pipeline and construction of the second segment of Tampa's three-segment reclaimed water system to the city's northeast area, including "New Tampa" and terminating with an interconnection to the Pasco County reclaimed water system. The reclaimed water provided by this second phase will be for irrigation and includes transmission, pumping and storage north of the Hillsborough River Dam to New Tampa. The project is a key element in the plans for regional utilization of Tampa's reclaimed water.

Project Name: TBRRAP - Pasco County Wet Weather Reclaimed Water Reservoirs (H305)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Withlacoochee River, and Pinellas-Anclote River Basin Boards, Governing Board
Locale: Pasco County
Project Description: Design and construction of seasonal storage (long-term, large-capacity) for a total of 1.2 billion gallons of surplus reclaimed water available from Pasco County when no customers are using it to allow the county to make the water available during the 90-day peak-demand season when daily supplies are typically tapped out. And to pursue the opportunity for the use of Pasco County and/or Tampa surplus reclaimed water for natural system restoration. As a result, the county will be able to serve up to 16,667 customers in addition to those already connected, and in addition to those that will be connected as a result of the 10 mgd made available from the City of Tampa during the dry season via the Regional Project. This project is a key element of the plans for regional utilization of Tampa's reclaimed water.

Project Name: TBRRAP - Tampa Bay Water Downstream Augmentation Project (H306)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Tampa Bay Water
District: Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Withlacoochee River, and Pinellas-Anclote River Basin Boards, Governing Board
Locale: Hillsborough County
Project Description: This project consists of the Feasibility, Design and Construction of the appurtenances necessary for Tampa Bay Water (TBW) to use between 8 and 20 million gallons of surplus (non-peak flows) reclaimed water per day (mgd) from the City of Tampa's HFC Plant to augment surface water flows downstream of the surface water intake in conjunction with a 1-for-1 withdrawal upstream. By augmenting stream flows downstream in wet weather, additional freshwater can be withdrawn upstream. In this way, the reclaimed water would be used to replace fresh water and would not be used as a potable water source. Otherwise, Tampa Bay Water is limited in the amount of freshwater that can be withdrawn from the surface water system. This project is expected to allow TBW to withdraw as much as 14 mgd of freshwater for potable water treatment while high quality reclaimed water is discharged downstream to maintain the stream flows. This project is a key element of the plans for regional utilization of Tampa's reclaimed water.

Project Name: TBRRAP - Pasco County Central Regional Reuse Interconnect and Storage/Pumping Facility (H307)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Withlacoochee River, and Pinellas-Anclote River Basin Boards, Governing Board
Locale: Pasco County
Project Description: The project will consist of the design and construction of 17,000 feet of 30-inch reclaimed water transmission main, two (2) five million gallon ground storage tanks, and a 20 million gallon per day reclaimed water pump station. The transmission main will be routed north along County Road 581 (Bruce B. Downs) from the terminus of the North Tampa Reclaimed Water Pipeline (H300) at the Pasco County/Hillsborough County border to Meadow Point Drive, where it will turn to the west and follow Meadow Point Drive to the site of the proposed pump station. This project is part of the infrastructure necessary for Pasco County to accept and utilize up to 10 mgd of reclaimed water from Tampa. This project is a key element of the plans for regional utilization of Tampa's reclaimed water.

Project Name: TBRRAP - South Hillsborough Area Reuse Exchange (SHARE) (H308)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Hillsborough County
District: Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Withlacoochee River, and Pinellas-Anclote River Basin Boards, Governing Board
Locale: Hillsborough County
Project Description: The project will provide the infrastructure necessary for Hillsborough County to accept reclaimed water flows from Tampa into the South-Central Service Area to provide reclaimed water to up to 7,000 additional customers. The project consists of the design and construction of 12,000 LF of 20-inch reclaimed water transmission main and associated appurtenances to be located adjacent to the Falkenburg AWTP. It includes crossing the Palm River with approximately 750 feet of 20-inch main. Also included are two 5 million gallon (mg) reclaimed water storage tanks to be located at the Falkenburg Advanced Wastewater Treatment Plant. This project also includes the design and construction of 46,000 feet of 20-inch main and associated appurtenances to be located in the southeast portion of the County's South/Central reuse system. Controls, telemetry, pumps, and associated appurtenances are to be included to connect to the City of Tampa's and Hillsborough County's South/Central reuse systems. This project is a key element of the plans for regional utilization of Tampa's reclaimed water.

Project Name: TBRRAP - South Hillsborough ASR & Reservoir Project (SHARP) (H309)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Hillsborough County
District: Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Withlacoochee River, and Pinellas-Anclote River Basin Boards, Governing Board
Locale: Hillsborough County
Project Description: The project will provide the infrastructure necessary for Hillsborough County to accept surplus reclaimed water flows from Tampa into the South-Central Service Area by providing seasonal reclaimed water storage in ASRs and reservoirs. The project will be designed and constructed to store reclaimed water and also to use surplus reclaimed water for natural system restoration/enhancement. Preliminary engineering estimates indicate this project (SHARP) will take between 9 and 20 mgd and combine it with an average of 10 mgd (expanding over time to 20 mgd) wet weather discharge from the County's Falkenburg and Valrico WWTPs. A portion of the Tampa's reclaimed water will be piped to a proposed reservoir on land near the Sydney Mine in central Hillsborough County. The stored reclaimed water can then be used during the dry season, and/or treated and injected into the Floridan aquifer for future withdrawal, or applied to land for natural system enhancement. A second component of SHARP involves the construction of an 80-acre reservoir adjacent to the County's reuse transmission main south of Progress Boulevard. This project is a key element of the plans for regional utilization of Tampa's reclaimed water.

Project Name: TBRRAP - Regional Reuse Interconnect Serving Hillsborough County and TBW Facilities (H310)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Hillsborough County and Tampa Bay Water
District: Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Withlacoochee River, and Pinellas-Anclote River Basin Boards, Governing Board
Locale: Hillsborough County
Project Description: This project is an element of the Regional Project that will connect the reclaimed water facilities of the City of Tampa to those of Hillsborough County to provide flows throughout the year to offset irrigation demand, and from the City of Tampa to Tampa Bay Water (TBW) facilities to augment streamflow in the Alafia River and or the Palm River/Tampa Bypass Canal in exchange for potable supply. The project will consist of the feasibility, design, permitting and construction of a 24-inch reclaimed water transmission main east from Tampa's northern transmission system to the Palm River/Tampa Bypass Canal, a 24-inch main from the county's reclaimed water system to the Alafia River, and a high-service pumping facility expansion. This project is a key element of the plans for regional utilization of Tampa's reclaimed water.

Project Name: Charlotte County Regional Reuse (H027)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Charlotte County
District: Peace River Basin Board, Governing Board
Locale: Charlotte County
Project Description: Design and construction of 21,500 linear feet of 16-inch diameter and 37,000 linear feet of 12-inch diameter reclaimed water transmission main to be constructed from the Charlotte County East Port Wastewater Treatment Facility (WWTF), west through Port Charlotte to serve recreational/aesthetic and commercial customers to utilize approximately 830,000 gpd of reclaimed water and offset approximately 620,000 gpd of traditional supply from the intermediate aquifer.

Project Name: Pasco County Central/East Regional Reclaimed Water Interconnect (H040)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Withlacoochee River, and Pinellas-Anclote River Basin Boards, Governing Board
Locale: Pasco County
Project Description: Design and construction of a 24-inch reclaimed water transmission main, which will complete the interconnection between Pasco County's West-Central Interconnect and the Wesley Center Wastewater Treatment Facility (WWTF). When complete, this transmission main interconnect will allow the efficient delivery of reclaimed water from the western portion of the County System to the Wesley Center WWTF, the primary reclaimed water storage and pumping station serving the eastern portion of the County's Reuse System.

Project Name: Pasco County **Southeast Regional Reclaimed Water Loop** (H041)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Withlacoochee River, and Pinellas-Anclote River Basin Boards, Governing Board
Locale: Pasco County
Project Description: Design and construction of a 24-inch reclaimed water transmission main to complete the transmission system looped interconnection between Pasco County's Southeast Pasco and Wesley Center Wastewater Treatment Facilities (WWTF's). When complete, this loop will help to transport water from the Southeast and Wesley Center WWTF's to the New River, Wesley Chapel and Meadow Point developing areas and will also serve to deliver reclaimed water from the Central Regional Reclaimed Water Interconnect to the most eastern portions of the Pasco County Reuse System.

Project Name: Pinellas County Lake Tarpon ASR Test Well Program - Phase III (K422)
Type of Alternative Supply: Stormwater/Wastewater Reuse
Cooperator: Pinellas County
District: Pinellas-Anclote River Basin Board
Locale: Pinellas County
Project Description: This project involves the design, construction and testing of an aquifer storage and recovery (ASR) well near Lake Tarpon. The overall purpose of the project is to beneficially use excess surface water from Lake Tarpon. The recovered ASR water will be used to supplement the Pinellas County Utilities reclaimed water system and support lake management and watershed restoration activities identified in the Lake Tarpon Drainage Basin Management Plan.

Project Name: Tampa STAR II Reuse (K655)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Tampa
District: NW Hillsborough Basin Board
Locale: Hillsborough County
Project Description: Design and construction of a reclaimed water system that includes transmission and distribution mains, a 2 mg ground storage tank, and a re-pumping facility to serve 4,000+ residential customers on Davis Islands and in south Tampa.

Project Name: Lake Placid Reuse Project (L153)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Lake Placid
District: Peace River Basin Board
Locale: Highlands County
Project Description: Design and construction of a reclaimed water system including a pump station and a 0.5 mg reclaimed water ground storage tank located at the town wastewater treatment facility (WWTF) site, as well as reclaimed water transmission and distribution mains. The project will provide reclaimed water service to the Town of Lake Placid to irrigate highway right-of-ways and center medians.

Project Name: City of Brooksville Construction of US-41 South Service Area Reuse System (L169)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Brooksville
District: Coastal Rivers Basin Board
Locale: Hernando County
Project Description: Design and construction of a reclaimed water main, one 1.0 mg reject water storage pond, two 0.5 mg storage tanks, three 3 mg storage/irrigation ponds, and two 1.0 mgd pump stations to provide reclaimed water. It also includes reclaimed water infrastructure to a golf course to be constructed at the Southern Hills Plantation development.

Project Name: Clearwater Morningside Area Reclaimed Water Transmission and Distribution Project (L254)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Clearwater
District: Pinellas-Anclote River Basin Board
Locale: Pinellas County
Project Description: Design and construction of reclaimed water transmission mains and distribution piping in the Morningside area of Clearwater. The project will serve 700 residential customers currently irrigating with potable water and 60 residential and other recreational/commercial/aesthetic customers that irrigate from deep wells.

Project Name: Pasco County Connerton Reclaimed Water Transmission and Storage (L270)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Pinellas-Anclote River Basin Board, Coastal Rivers Basin Board
Locale: Pasco County
Project Description: Design and construction of 16-inch and 24-inch reclaimed water transmission mains and a lined 15-acre reclaimed water storage pond to serve the Connerton development in central Pasco County. This project will allow for the delivery of reclaimed water to serve the irrigation needs of an estimated 6,800 residential units and 4.5 million square feet of non-residential development planned for Connerton. This project is an integral part of the continuation of Pasco County's Reclaimed Water Master Plan.

Project Name: Evaluation of Offshore Brackish Springs (B075)
Type of Alternative Supply: Desalination of Brackish Water
Cooperator: Southwest Florida Water Management District
District: Pinellas-Anclote River and Coastal Rivers Basin Boards
Locale: Gulf of Mexico and Tampa Bay
Project Description: This District project will evaluate the water quality characteristics of springs that discharge water offshore in the Gulf of Mexico or Tampa Bay to determine if the springs can be used as water supply sources.

Project Name: Hillsborough Co. Lithia-Pinecrest Reclaimed Water Transmission (L294)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Hillsborough County
District: Alafia River Basin Board
Locale: Hillsborough County
Project Description: The project includes the construction of 12,200 feet of 24-inch reclaimed water transmission main and associated appurtenances to be located along Lithia Pinecrest Road from Bloomingdale Avenue south to the entrance road to the Riverhills Golf Course (WUP# 9137). Controls, telemetry, and associated appurtenances are to be included to connect to Hillsborough County's South/Central reuse system. This pipeline is needed to meet operational reliability and efficiency and provide additional hydraulic capacity to meet existing and future customer demands in the South/Central Reclaimed Water System.

Project Name: Pinellas County Reclaimed Water Supplemental Supply from Lake Tarpon (L375)
Type of Alternative Supply: Stormwater/Wastewater Reuse
Cooperator: Pinellas County
District: Pinellas-Anclote River Basin Board
Locale: Pinellas County
Project Description: This project is a feasibility study of supplementing the county's North Reclaimed Water System with water directly from Lake Tarpon during peak reclaimed water demands. The goal of this alternative water supply project is to ensure sufficient supply of the reuse resource and allow for system expansion as outlined in the Pinellas North County Reclaimed Water Master Plan.

Project Name: Clearwater Reclaimed Water System Meter Retrofit Project (L402)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Clearwater
District: Pinellas-Anclote River Basin Board
Locale: Pinellas County
Project Description: The project is to retrofit approximately 3,300 existing Clearwater reclaimed water connections with individual meters, and related appurtenances such as meter boxes. The goal of this alternative water supply related project is to ensure efficient use of the resource to allow for system expansion as outlined in the City's Reclaimed Water Master Plan. When the project is completed, the City will charge all reclaimed water customers volume-based rates.

Project Name: Pasco County - Lake Bernadette Golf Course Reuse Storage Pond and Pump Station (L431)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Hillsborough River Basin Board
Locale: Pasco County
Project Description: Design, permitting and construction of a reuse storage pond and pump station on the property of the Lake Bernadette Golf Course (WUP # 20007733.001) in Pasco County. This pond and pump station will allow the County to supply reclaimed water for irrigating this Golf Course during off-peak irrigation demand periods of the day. The pond will be filled when other demands for reclaimed water from the County's transmission system are low. This will make it possible for the Golf Course to irrigate during the appropriate time of day by pumping reclaimed directly from the storage pond through the proposed pumping station.

Project Name: Pasco County -Cannon Ranch Reclaimed Water Transmission, Storage and Pumping Facility (L436)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Hillsborough River Basin Board
Locale: Pasco County
Project Description: Design, permitting, and construction of 14,800 linear feet of 12-inch reclaimed water transmission main (RWTM) commencing at an existing 16-inch reclaimed water transmission main at the intersection of Boyette Road and Overpass Road, running due west to McKendree Road, then running generally north along McKendree Road to the north boundary of a parcel owned by Pasco County. This parcel is the site of a planned storage/pumping facility. This project is intended to serve up to 6,700 residential units, 235,000 sq.ft. of non-residential use, two school sites, and an 18-hole golf course with reclaimed water, with a calculated flow of 3.5 mgd, and an offset of 1.8 mgd.

Project Name: Hillsborough Co. South County Stormwater Recovery and Wetlands Creation Project Feasibility Study (L444)
Type of Alternative Supply: Stormwater Reuse
Cooperator: Hillsborough County
District: Alafia River Basin Board
Locale: Hillsborough County
Project Description: The Project involves using some of the old unreclaimed Sydney area phosphate mines to provide storage for excess stormwater flows from the Little Alafia River and Turkey Creek Watersheds. The proposed project involves providing a connection between the Medard Reservoir and the Carlton/Davis/Pallardy Turkey Creek Preserve tract on the west side of Turkey Creek Road. By diverting water from Medard Reservoir and portions of Turkey Creek into what would be a new reservoir on the Turkey Creek Preserve tract, the project proposes to create wetlands, new water recharge areas, and additional park and recreational facilities for the South County area.

Project Name: City of Inverness Reclaimed Water Transmission Main (L468)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Inverness
District: Withlacoochee River Basin Board
Locale: Citrus County
Project Description: Design, permitting, and construction of approximately 17,000 LF of 16-inch reclaimed water transmission main, expansion of the City of Inverness WWTP Reclaimed Water Pump Station and interconnections to the Inverness Golf and Country Club turf irrigation system.

Project Name: Polk County Utilities Northeast Regional Reclaimed Storage Expansion (NERRSE) (L475)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Polk County
District: Peace River Basin Board
Locale: Polk County
Project Description: Permitting and construction of three (3) additional 3-million gallon reclaimed water storage tanks and required appurtenances at the County's Northeast Regional Waste Water Treatment Facility (NRWWTF). Additional storage is essential to expanding reuse in the service area of the NRWWTF. To further increase reliability, PCU is installing a new 60 HP pump to transmit reuse to the storage tanks. The project is expected to expand the capacity of reclaimed water from the NRWWTF from 3.0 MGD to 6.0 MGD.

Project Name: City of Winter Haven Reuse Master Plan (L483)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Winter Haven
District: Peace River Basin Board
Locale: Polk County
Project Description: The City's project is to develop a master plan to utilize the City's reclaimed water resource for its highest and best use. This project is a water supply plan that explores the feasibility of optimizing the reuse system associated with Winter Haven Plant II and expanding Winter Haven Plant III to pubic access reuse standards. The plan would determine the costs associated with upgrading Plant III to produce public-access reuse quality, identify potential users of the reuse water and the potential quantities of water needed, determine costs of constructing the necessary transmission/distribution system, evaluate the Plant II reuse system and provide options to optimize beneficial us of its reuse flows, and create a plan for implementing recommendations. The plan would also consider interconnecting Plants II and III to create a more reliable reuse supply, especially addressing issues associated with wet weather storage, and address the feasibility of using treated stormwater as a reuse supply source.

Project Name: Charlotte County Golf Course Reuse Storage (L485)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Charlotte County
District: Peace River Basin Board
Locale: Charlotte County
Project Description: Design and construction of two reuse ponds and related appurtenances to provide diurnal storage at the Deep Creek (WUP# 7815) and Kings Island (WUP# 9066) golf courses, and the modification of an existing stormwater management pond to allow for diurnal storage of reuse water to serve the Victoria Estates Golf Course (WUP# 9223). This project provides diurnal storage to allow the three golf courses to fully utilize reuse for irrigation purposes by eliminating competition for the use of reclaimed water with other irrigation customers, where otherwise there would be insufficient flow to meet both customers demands at once.

Project Name: DeSoto County DCI Reuse Feasibility (L491)
Type of Alternative Supply: Wastewater Reuse
Cooperator: DeSoto County Dept. of Corrections
District: Peace River Basin Board
Locale: DeSoto County
Project Description: The project is a feasibility assessment of developing a new reclaimed water system associated with the DeSoto-County-operated wastewater treatment facility (WWTF) at the DeSoto Correctional Institution (DCI), located approximately 12 miles east of Arcadia on Highway 70. DCI houses approximately 1,400 offenders and a staff of approximately 300. The DCI WWTF is currently permitted to treat 500,000 gpd and generates approximately 300,000 gpd of flow that is currently disposed of via an on-site spray field.

Project Name: City of Sarasota Payne Park Reuse Project (L500)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Sarasota
District: Manasota Board
Locale: Sarasota County
Project Description: Design and construction of an urban reuse transmission system by constructing 4,280 linear feet of main line (8-inch to 14-inch diameter pipe) between the Downtown Loop and Payne Park. The project will make reclaimed water available to Payne Park, a planned recreation area on the site of the City's former Mobile Home Park.

Project Name: City of Bradenton Potable ASR Project (L513)
Type of Alternative Supply: Potable ASR
Cooperator: City of Bradenton
District: Manasota Board
Locale: Manatee County
Project Description: Design, construction and testing of a two (2) million gallons per day (mgd) aquifer storage and recovery (ASR) well and associated monitor wells at the City's Evers Reservoir ASR site. The wells will be completed in the Suwannee Formation of the Upper Floridan aquifer and the source of water is potable water from the city's water treatment plant that originates from the Braden River that is impounded by the Evers Reservoir.

Project Name: City of Bradenton Reuse Feasibility Study (L515)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Bradenton
District: Manasota Board
Locale: Manatee County
Project Description: This project will conduct a reuse feasibility study for expansion of the City's existing Reclaimed Water Reuse System. The focus of the study will be to replace existing or proposed uses of potable or ground water with reclaimed water, optimize use of the City's existing reuse facilities, and maximize the reuse of reclaimed water to reduce the amount of effluent discharged into the Manatee River. The scope of the study will also include consideration of an interconnection with the City of Palmetto's Reclaimed Water Reuse System.

Project Name: Aqua Utilities Reuse Transmission to Lakewood Ranch (L522)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Aqua Utilities
District: Manasota Board
Locale: Manatee County
Project Description: Design and construct a reclaimed water transmission main and upgrade an existing pump station to provide reclaimed water to the Corporate Park area of Lakewood Ranch from the Aqua Utilities Florida, Inc. (AUF) Wastewater Treatment Facility (WWTF). The reuse transmission main will interconnect the Lakewood Ranch Phase VI Lake, located within the Corporate Park sector of the Lakewood Ranch development area, with the AUF WWTF. Approximately 3,900 feet of 12” transmission main will be constructed and a low pressure pumping station will be replaced with two high-pressure service pumps. The objective of this project is to provide approximately 0.57 mgd of reclaimed water, along with over 1.0 mgd of surface water from the Phase VI lake, to meet and existing 1.5 mgd and future 2.0 mgd irrigation need in the Corporate Park sector of Lakewood Ranch. The stormwater from the Phase VI Lake was previously made available for irrigation use through a FY2000 cooperative funding initiative project (K264) and will now be augmented with reclaimed water to further offset groundwater withdrawals.

Project Name: Sarasota County Reclaimed Water ASR with UV Disinfection (L527)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Sarasota County
District: Manasota Board
Locale: Sarasota County
Project Description: Design, engineering, permitting, construction, and testing of three (3) 1.0 million gallons per day (mgd) reclaimed water aquifer storage and recovery (ASR) wells (Project Number K269). With this proposal, Sarasota County is requesting additional funding for Ultraviolet (UV) disinfection equipment and a funding increase for the three proposed reclaimed water ASR's in project K269.

Project Name: Dundee Reclaimed Water Use System Project (L553)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Town of Dundee
District: Peace River Basin Board
Locale: Polk County
Project Description: Design and construction of approximately; 8,600 lineal feet of 12-inch and 16,500 lineal feet of 10-inch reclaimed water transmission main, a high service pump station, two 2.25 million gallon storage tanks with a combined storage capacity of 4.5 million gallons, and other necessary appurtenances. The project will store, pump, and transmit reclaimed water from the Dundee Regional Wastewater Treatment Facility to the Dundee Regional Utility Service Area for reuse on commercial, residential, and institutional sites for irrigation. The project area encompasses 11 new residential subdivisions with a total of 1,384 lots, Projected reuse demand is 830,000 gpd with a projected offset of 415,200 gpd.

Project Name: Brandon/South Central Connection
Type of Alternative Supply: Water Supply Pipeline
Cooperator: Tampa Bay Water
District: Pinellas-Anclote River, NW Hillsborough, Hillsborough River, Alafia River, Coastal Rivers, Withlacoochee River Basin Boards and Governing Board.
Locale: Hillsborough County
Project Description: Approximately 6.2 miles of 30-inch diameter pipeline to connect the Brandon Urban Dispersed Wells project to the existing South Central Hillsborough Regional Wellfield. The pipeline will integrate the wellfield into the regional water supply system.

Project Name: Enhanced Surface Water System
Type of Alternative Supply: Surface Water Supply
Cooperator: Tampa Bay Water
District: Pinellas-Anclote River, NW Hillsborough, Hillsborough River, Alafia River, Coastal Rivers, Withlacoochee River Basin Boards and the Governing Board.
Locale: South Hillsborough County
Project Description: This project combines surface water from the Tampa Bypass Canal, Hillsborough River, and Alafia River with storage in a proposed 15 billion gallon off stream reservoir and treatment from a new surface water treatment plant to produce 66 mgd (maximum) of potable supply.

Project Name: North-Central Hillsborough Intertie
Type of Alternative Supply: Water Supply Pipeline
Cooperator: Tampa Bay Water
District: Pinellas-Anclote River, NW Hillsborough, Hillsborough River, Alafia River, Coastal Rivers, Withlacoochee River Basin Boards and the Governing Board.
Locale: Hillsborough County
Project Description: Approximately 12.5 miles of 84 inch diameter steel pipeline. This pipeline will convey water from the new regional water treatment facility to Tampa Bay Water's regional distribution system.

Project Name: Seawater Desalination I
Type of Alternative Source: Seawater Desalination
Cooperators: Tampa Bay Water
District: Pinellas-Anclote River, NW Hillsborough, Hillsborough River, Alafia River, Coastal Rivers, Withlacoochee River Basin Boards and the Governing Board.
Locale: South Hillsborough County
Project Description: This project involves construction and operation of a 25 mgd (expandable to 35 mgd) reverse osmosis seawater desalination facility at the Tampa Electric Big Bend Power Plant.