

IN THE CIRCUIT COURT OF THE 12TH JUDICIAL CIRCUIT
IN AND FOR SARASOTA COUNTY, FLORIDA

LANDTECH DESIGN GROUP, INC., a
Florida Corporation, Joseph D Gilberti PE

Plaintiff

vs.

Case No.: 15-006544 CA NC

72 PARTNERS, LLC, a Florida limited
Liability Company; CECIL DAUGHTREY,
JR., and individual; and PATRICIA
DAUGHTREY, an individual,

Defendants,

NOTICE OF EVIDENCE

**72 PARTNERS-KENNY HARRISON WAS VICE CHAIR ON PEACE RIVER BOARD FOR SWFWMD DURING
RV GRIFFIN REGIONAL FUNDING 2007**

Plaintiff, Joseph Gilberti Jr, pursuant to the applicable Florida Rules of Procedure, hereby provides Notice of Filing of supporting Evidence dated December 3, 2018. Motion to Intervene with **DOAH Case No. 18-3276** involving Peace River Basin within Southwest Florida Water Management District with Kenny Harrison of 72 Partners assisted with Peace River Basin at Vice Chair after Hurricane Charlie to hide this US Resource with Lisa Carlton, Buster Longino. Sarasota-Desoto-Charlotte-Manatee County Commissioners, Staff and Consultants to steal funding from 50 Staters with US Leaders to hide this Critical US Resource to fill Cancer Centers from poor Tap water! A group of Terrorism acts surrounding this Resource in the past 6 to 20 years by BSFL Holdings, Local Developers, Local Ranchers, 72 Partners, Department of Justice, FBI, Leaders, Judges, Lawyers, Engineers and News Media utilizing poor Raw Water Resources and hiding Alkaline Cancer slowing Sprign water; and stealing funds from both State and Federal monies to build unnecessary Reservoirs, causing Cancers and tax paid litigation to Lower the Level of Service of Water supply, tax and raise utility bills, condemn homes and harbor Terrorism with Israel-Saudi Arabia owned Mosaic Phosphate in a massive Racketeering operation with Medicaid Fraud and Eugenics.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing was furnished via email this 3rd day of December, 2018 to:

Ryan L. Snyder, Esq.
FBN 0010849
Snyder Law Group, P.A.
Co-Council for 72 Partners
2025 Lakewood Ranch Blvd, Suite 102
Bradenton, FL 34211
941-747-3456
941-747-6789 Facsimile
[Ryan@docudesk.com](http://www.docudesk.com)

Eduardo F. Morrell, Esq.
FBN 0773281
Morrell, P.A.
Co-Council for 72 Partners
PO Box 2786
Lakeland, Florida 33806-2786
863-802-8037
863-802-5312 Facsimile
[Eduardo@docudesk.com](http://www.docudesk.com)

/s/ Joe Gilberti

Joseph D. Gilberti PE

Defendant

385 Donora Blvd

Ft Myers Beach, FL 33931

813-470-6000

Gilberti.water.company.fl@gmail.com

STATE OF FLORIDA
DIVISION OF ADMINISTRATIVE HEARINGS

POLK REGIONAL WATER COOPERATIVE,)

Petitioner,)

vs.)

DOAH CASE NO. 18-3276
WUP No. 20010420.010

PEACE RIVER MANASOTA REGIONAL)
WATER SUPPLY AUTHORITY, and)
SOUTHWEST FLORIDA WATER)
MANAGEMENT DISTRICT,)

Respondents.)

POLK COUNTY, FLORIDA,)

Petitioner,)

vs.)

DOAH CASE NO. 18-3278
WUP No. 20010420.010

PEACE RIVER MANASOTA REGIONAL)
WATER SUPPLY AUTHORITY, and)
SOUTHWEST FLORIDA WATER)
MANAGEMENT DISTRICT,)

Respondents.)

CITY OF BARTOW, FLORIDA,)

Petitioner,)

vs.)

DOAH CASE NO. 18-3280
WUP No. 20010420.010

PEACE RIVER MANASOTA REGIONAL)
WATER SUPPLY AUTHORITY, and)
SOUTHWEST FLORIDA WATER)
MANAGEMENT DISTRICT,)

Respondents.)

CITY OF FT. MEADE, FLORIDA,)

Petitioner,)

vs.)

DOAH CASE NO. 18-3282
WUP No. 20010420.010

PEACE RIVER MANASOTA REGIONAL)
WATER SUPPLY AUTHORITY, and)
SOUTHWEST FLORIDA WATER)
MANAGEMENT DISTRICT,)

Respondents.)

CITY OF LAKE LAND, FLORIDA,)

Petitioner)

vs.)
)
PEACE RIVER MANASOTA REGIONAL)
WATER SUPPLY AUTHORITY, and)
SOUTHWEST FLORIDA WATER)
MANAGEMENT DISTRICT,)
)
 Respondents.)
)
CITY OF WAUCHULA, FLORIDA,)
)
 Petitioner,)
)
 vs.)
)
PEACE RIVER MANASOTA REGIONAL)
WATER SUPPLY AUTHORITY, and)
SOUTHWEST FLORIDA WATER)
MANAGEMENT DISTRICT,)
)
 Respondents.)
)
CITY OF WINTER HAVEN, FLORIDA,)
)
 Petitioner,)
)
 vs.)
)
PEACE RIVER MANASOTA REGIONAL)
WATER SUPPLY AUTHORITY, and)
SOUTHWEST FLORIDA WATER)
MANAGEMENT DISTRICT,)
)
 Respondents.)

WUP No. 20010420.010

DOAH CASE NO. 18-3288
WUP No. 20010420.010

DOAH CASE NO. 18-3289
WUP No. 20010420.010

MODIFIED MOTION TO INTERVENE – NOTICE OF EVIDENCE

NOTICE OF EVIDENCE 72 PARTNERS-KENNY HARRISON WAS VICE CHAIR ON PEACE RIVER BOARD FOR SWFWMD DURING RV GRIFFIN REGIONAL FUNDING 2007 AND GILBERTI-DAUGHTREY LAND PROPERTY BLOCKING CRITICAL AQUIFER TO MILLIONS OF HOME TAPS WITH US TRUSTEE, FLORIDA LEADERS AND MOSAIC PHOSPHATE

Comes Now, Florida Professional Engineer Joseph Gilberti P.E. (“Petitioner”), by pursuant to Section 120.569(2)(c), Florida Statutes (“F.S.”), and Rule 28-106.204(2), Florida Administrative Code (“F.A.C.”), files Evidence in Support for a Motion to Intervene on Petitions for Formal Administrative Hearing filed by the Polk Regional Water Cooperative (“PRWC”), Polk County (“Polk County”), the City of Bartow (“Bartow”), the City of Fort Meade (“Fort Meade”), the City of Lakeland (“Lakeland”), the City of Wauchula (“Wauchula”), and the City of Winter Haven (“Winter Haven”) (collectively, “Petitioners”):

FACTUAL EVIDENCE

1. 72 Partners is the note holder on Daughtrey lands that never got a Trial as the local leaders, Sarasota and Tampa courts coordinated to kidnap Gilberti during the Boston bombing. **PDF Created with pdfcrowd.com**

property, David Weinstein for conflicts in the phosphate district where this land is located. 72 Partners consists of Thomas Howze, Lee Pallardy, Kenny Harrison, Lawrence Hall and Spencer Hall. Kenny Harrison is a neighbor for generations who lost his land from Mosaic in a bad deal over 20yrs ago and has been targeting Daughtrey-Gilberti lands since then for Swfwmd, Lisa Carlton, Longino, Peace River Manasota Water Authority and local Hospital foundations that want to keep the Level of Service of Raw Resource to Arsenic rivers, arsenic ground water while lying about Earths true water resources of Alkaline endless spring water. This is a massive Eugenic operation including Gov Scott, Obama, hedge funders and more that stalled this massive underground river access with unique water readings with Swfwmd since 1969 when the well was dug on Daughtrey lands which portions now owned by Gilberti.

2. A portion of Deposition to 72 Partners, Thomas Howze attached show Kenny Harrison as an owner of 72 Partners. More discovery is coming and more lawsuits are coming to depose these lawyers, engineers and agency staff regarding all these issues of Treason on Water supply and harboring Terrorism acts used to kidnap Gilberti timed with docket hearings in Sarasota and US Middle District courts, 11th District courts of appeals and US Supreme court filings.
3. Attached is a Peace River Board minutes showing a massive group up peace river this case involves that has been working with Kenny Harrison and Mosaic Phosphate to capture this isolated access point that shows readings that change medicine. In our past 6yrs of ligation the Trustee and local Judiciary from State to Federal courts purposely hid this Water Resource, denied full payment in Bankruptcy for Daughtrey with an additional \$2million dollars! This group on this Peace River Board, Swfwmd staff, and this group of lawyers on this case have known of this resource and want to feed of Mosaic settlements,with EPA on Water resources and wanted to hide this Resources Capacity and simply place another bottling plant and sell new medicine, while hiding the endless Capacity, Flows and geological proof of Oceans beneath are hidden EVERYWHERE across the USA and Globe from Meteor impacts.
4. All lawyers and Government officials along this Peace river corridor are subject to US Treason hiding such a Unique resource of Water readings never seen on Earth that affect potentially the entire Globe considering the knowledge under this site teaches mankind how to find the rest in days. And with the Terrorism acts described in the past filings we submitted, Gov Scott taking pictures with my engineer who ran off who worked at Treatment plants, Rob Stampe before and after the Boston Explosion that raised my misdeameanor bond to \$300,000 for so called Victim and chief council Dave Weinstein Daughtrey FIRED, which all got dropped once the Trustee and 72 Partners with Tampa District 13 and Sarasota District 12 railroaded the foreclosure trial, we have indicators of a massive group of Traitors from Judges, Lawyers, Leaders and agencies in a pool hiding this CRITICAL Resource from America and its soldiers.
5. The Judge on this case whether he or she allows the intervention MUST REPORT this case and its findings, our Motions to President Trump, the EPA and Congress for review considering the Terrorism acts and apathy games from Swfwmd and the attorneys and engineers involved in this case who know about this resource with Mosaic and their corresponding Council members or Commissioners for years.
6. This case must be forwarded by the Judge to Governor Ron Desantis and US Military as the Water readings show major impacts to Medicine so its not just the Pipeline issues that can serve over 10million people to the Taps of their homes from Tampa to Miami.

7. Bush Family owns aquifers around the World and we have witnesses that say this was saved for Jeb Bush by his Father with a group tied to Lisa Carlton, Buster Longino, Judge Hall and Judge Parker in Desoto County and this massive group of Judges and Lawyers.
8. If this site was exposed to the American and World People its knowledge can open millions more and potentially end World Hunger. With plenty of endless higher quality water, means endless higher quality food and energy production, which may eliminate reasons for many wars and land take overs, saving more lives.
9. Over 20,000 kids/day across the Earth die of lack of Water supply this sites knowledge which helps find many more with NASA and Satellites in Days can lower that number quickly with US Military and more. Blue Gold Water wars can be solved with this sites knowledge and Swfwmd, EPA and these west Florida lawyers, Judges, engineers and leader purposely keep hiding and attacking this site to condemn humanities potential with God given endless Alkaline mineral drinking water.
10. Water affects national defense and energy production. Sustainability and overall Economics is being impaired by hiding this US Resource. Others have filed Public Service commission complaints in the past and Rick Scott & Swfwmd ignored them via PSC 00554-13, 00560-13, 00550-13.
11. Certified mail since 2012 to ACOE, Swfwmd, Sarasota County staff, FPL, EPA, Rick Scott, Walt Disney, Pepsi, Coke, Nestle, Health Department, FDEP, FDOT of water readings, permit petitions, pipeline plans can be provided on request.
12. Billions of US Tax Dollars have been stolen by Lawyers, Swfwmd, Peace River Manasota, West Florida Commissioners, their consultants, engineers, Mosaic Phosphate, EPA and US Leaders by hiding this Unique Critical Resource since 1969. The Department of Interior located this Well and access point in 1971 and reported it with Swfwmd in 1987 in a study that can be provided and it public record.
13. These Lawyers, Environmentalist and Engineers on this case MUST report this resource to the EPA or be arrested for US Treason. They should be taking a PRO-ACTIVE approach and helping America see this Resource that can be verified in hours vs worrying about their billings on this case. A massive alkaline housing boom would hit west and south Florida, Colleges would be at the site testing and the US Military could be helping other Nations find their secret access points with OPEC and WHO. Pull up all the Oil well logs dug across America by Exxon, BP Oil and the Bush Family! Where are all the Underground bases getting their water? Who would hide endless READY TO DRINK Alkaline Spring water to Taps and Hospitals across America unless you were a TERRORIST like Gov Rick Scott, Bill Nelson, Obama and most of these Florida Leaders and Judges playing stupid?

COPY

IN THE CIRCUIT COURT OF THE TWELFTH JUDICIAL CIRCUIT
IN AND FOR SARASOTA COUNTY, FLORIDA

BSLF HOLDINGS, LLC,

Plaintiff,

vs.

Case No. 2011-CA-4209-NC

CECIL DAUGHTREY, JR.,
et al.,

Defendants.

DEPOSITION OF
THOMAS HOWZE

TAKEN BY: Defendants Herein

DATE: July 15, 2013

TIME: 1:53 - 2:48 p.m.

PLACE: 677 N. Washington Blvd.
Sarasota, Florida

REPORTER: Betsy Ridenour
Court Reporter, Notary Public
State of Florida at Large

(Pages 1 - 50)

Ridenour Reporting ~ 941-364-3390

IN THE CIRCUIT COURT OF THE TWELFTH JUDICIAL CIRCUIT
IN AND FOR SARASOTA COUNTY, FLORIDA

EXHIBITS MARKED FOR IDENTIFICATION

BSLF HOLDINGS, LLC,
Plaintiff,
vs. Case No. 2011-CA-4209-NC
CECIL DAUGHTREY, JR.,
et al.,
Defendants. /

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DEPOSITION OF
THOMAS HOWZE

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PLACE: 677 N. Washington Blvd.
Sarasota, Florida
REPORTER: Betsy Ridenour
Court Reporter, Notary Public
State of Florida at Large

(Pages 1 - 50)

APPEARANCES:

RYAN L. SNYDER, ESQ., ESQUIRE
Snyder Law Group, P.A.
11031 Gatewood Dr.
Bradenton, FL 34211
Appearing on behalf of the Plaintiff

MICHAEL J. OWEN, ESQUIRE
BRYANT H. DUNIVAN, JR., ESQUIRE
Christmas, Spano & Owen, P.A.
10101 Bloomingdale Ave.
Suite 201
Riverview, FL 33578
Appearing on behalf of the Defendants

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1 PROCEEDINGS
2
3
4 (Thereupon, the following proceedings
5 were had.)
6 COURT REPORTER: Would you raise your
7 right hand, please.
8 Do you solemnly swear or affirm the
9 testimony you will give in this cause will be
10 the truth, the whole truth, and nothing but the
11 truth?
12 THE WITNESS: I do.
13 Thereupon,
14 THOMAS HOWZE
15 was called for examination, and having been first
16 duly sworn by the Court Reporter, was examined and
17 testified as follows:
18 DIRECT EXAMINATION
19 BY MR. OWEN:
20 Q How are you doing today? My name is
21 Michael Owen. I'm an attorney with Christmas, Spano
22 and Owen, and I represent Cecil and Patricia
23 Daughtrey in a foreclosure lawsuit in Sarasota
24 County. The case number is 2011-CA-004209. The
25 style of the case is 72 Partners, LLC versus Cecil
Daughtrey, Jr.

1 Now, have you been in a deposition before?
 2 A Yes.
 3 Q So you understand how it works.
 4 I'm going to ask you basically a series
 5 of questions, and the main thing is that you give
 6 audible answers. For example, yes and no works
 7 great. The reason we need that is because uh-huh's
 8 and ut-uh's and head nods, while I understand what
 9 you're saying, when we transcribe it, it may not come
 10 out clearly. So we do ask that you try to give
 11 audible answers if you can.
 12 Likewise, if I go off on a tangent and
 13 I start asking a question within a question, what we
 14 call a compound question, say, Hey, Mr. Owen, stop,
 15 and I'll start over.
 16 Just note here, I'm on a fact-finding
 17 mission, so I'm not here to insult you in any way.
 18 If I ask some questions that you emphatically say no
 19 to, I'm not a banker as well, so it's not my
 20 profession, the lending profession. I know enough to
 21 be dangerous, but probably not as much as you do
 22 about the business. So I may ask some basic
 23 questions and you may say, Man, why doesn't this guy
 24 know the answer to it.
 25 But understand I am an attorney and I do

1 represent the Defendants in this case which are
 2 adverse to you, okay?
 3 Do you have any questions for me before we
 4 get started?
 5 A No.
 6 Q Please state your full name for the
 7 record.
 8 A Thomas A. Howze.
 9 Q And your Social Security number?
 10 A XXX-XXXX-1867.
 11 MR. OWEN: And just for the record, just
 12 show the last four on the transcript.
 13 BY MR. OWEN:
 14 Q And what's your home address?
 15 A 1620 99th Street Northwest, Bradenton,
 16 34209.
 17 Q And who is your current employer of any
 18 particular business you're working for?
 19 A Howze Investment Company.
 20 Q And that company, is 72 Partners a
 21 subsidiary to that?
 22 A 72 partners is a separate LLC.
 23 Q A separate LLC.
 24 And what is your position with Howze
 25 Investment?

1 A I'm the owner of it.
 2 Q Oh, you're the owner.
 3 And what type of company? Is it a
 4 corporation, an LLC?
 5 A No, it's a -- it's a proprietorship.
 6 Q And what is the purpose of that business?
 7 Is it a for-profit company that does what?
 8 A Well, it's an investment company. We
 9 invest in different things. Real estate,
 10 different -- all kind of different investments.
 11 Q Okay.
 12 A Whatever we can make money at.
 13 Q Okay. Can you give me maybe a little more
 14 of an example of what else you would do? Would it be
 15 purchasing automobiles, anything, or --
 16 A No, it's mainly real estate, commercial
 17 real estate holdings.
 18 Q And again, your title is the owner?
 19 A Right.
 20 Q Is the president/owner?
 21 A Yes.
 22 Q Are there any other members of the
 23 company? A lot or a few?
 24 A No.
 25 Q What is your affiliation with 72 Partners,

1 LLC?
 2 A I'm a member of the LLC.
 3 Q What type of member?
 4 A Managing member.
 5 Q This is a for-profit -- when I say "this",
 6 72 Partners, they are a for-profit corporation as
 7 well?
 8 A Yes.
 9 Q And what is the primary function of
 10 72 Partners?
 11 A For the holding of the Daughtrey mortgage.
 12 Q So it's holding just one mortgage,
 13 basically?
 14 A That's correct.
 15 Q This is going to be a stupid question
 16 maybe. Are there 72 Partners or what's the reason
 17 for the name?
 18 A Highway 72.
 19 Q Okay. Do you know approximately how many
 20 members there are in 72 Partners?
 21 A They would be four. Excuse me. Make that
 22 five.
 23 Q Five. Do you have their names?
 24 A Yes. It would be -- I'm one, Thomas A.
 25 Howze. Lee Pallardy, P-A-L-L-A-R-D-Y. Lawrence

1 Hall, Ken Harrison and Spencer Hall.
 2 Q As far as managing members, would that
 3 just be a few of you guys or all of you?
 4 A Probably I'm the managing member.
 5 Q Okay. Do you have any other LLCs that you
 6 own that have one particular property in it or would
 7 it just be these two companies that you --
 8 A No, I've got quite a few that have one
 9 property in them.
 10 Q You do?
 11 A (Witness nods head.)
 12 Q How many, approximately?
 13 A Ten. Maybe more.
 14 Q And is it safe to say that there's one
 15 property each or would some of them have maybe a
 16 couple properties?
 17 A Some of them would have more.
 18 Q So the main function of 72 Partners, LLC
 19 was purely for the Daughtreys' property?
 20 A Yes.
 21 Q And so as far as 72 Partners, there are
 22 no other current business ventures or functions that
 23 they are currently participating in or even planning
 24 to participate in?
 25 A No.

1 Q Just curious. What's the reason for
 2 setting up just a separate company for one property
 3 rather than using, say, Howze as the company that
 4 would hold the note?
 5 A Well, different partners than what's in
 6 Howze.
 7 Q So these partners particularly just to
 8 72 Partners, LLC, did they each put in "X" amount of
 9 money in order to become a member or how does that
 10 work? How did that work in order to --
 11 A They put in money to be a member.
 12 Q So who is the decider for 72 Partners?
 13 Who is the decider, the main person that decided,
 14 okay, we want to take assignment or purchase the
 15 Daughtrey note?
 16 A I don't know that it's any one person.
 17 Q So do you have like a Board of Directors
 18 meeting and talk about the property? How would that
 19 work?
 20 A Well, since it's only the five people
 21 there, it's pretty easy to talk about it.
 22 Q And in this particular case, if I could
 23 ask you to kind of recollect, what were the
 24 discussions on this particular case to purchase this
 25 property?

1 A Well, we --
 2 Q Why, I guess I'm saying.
 3 A Well, we knew about it and we knew about
 4 the mortgage and we just decided it might make a good
 5 investment.
 6 Q So were any of these gentlemen -- I take
 7 it they are all gentlemen, correct?
 8 A Yes.
 9 Q Any of these gentlemen, are they
 10 underwriters or do they have any type of lending
 11 experience?
 12 A Other than being -- I'm on the board of
 13 a bank and there's two others on a board of a bank
 14 here, different banks.
 15 Q Okay. So in a way, before you guys
 16 purchased or took assignment of this note, did you do
 17 some type of underwriting or due diligence?
 18 A No.
 19 Q In the notes that are held -- and this is
 20 including the other companies you are a member of
 21 besides 72 Partners -- are you primarily taking
 22 assignment or purchasing residential or commercial
 23 or a combination of both properties?
 24 A Mainly commercial.
 25 Q And what entities -- what's involved in

1 the research before you purchase or take assignment
 2 of a note? What's involved? Just give me the basic
 3 research that you --
 4 A Well, most of the properties that I own,
 5 we're not buying the mortgage on. We're buying the
 6 properties.
 7 Q Okay. You're not taking assignment of the
 8 note and mortgage or buying the mortgage; you're
 9 buying the property itself?
 10 A Correct.
 11 Q Okay. So explain to me how that works.
 12 Who are you purchasing the property from?
 13 A The previous owner. Just like you buy a
 14 house.
 15 Q And forgive me for maybe asking a question
 16 that may sound stupid.
 17 You're purchasing the property, but yet
 18 you're taking an assignment, correct?
 19 A No.
 20 Q No?
 21 A No.
 22 Q Okay. So in this case, 72 Partners did
 23 not take an assignment of mortgage from a previous
 24 note holder?
 25 A Yes, they did.



Paynes Creek

Southwest Florida
Water Management District

WATERMATTERS.ORG • 1-800-423-1476

Peace River Basin Board

*Information and Budget
Notebook*

*Friday,
July 27, 2007
9:30 a.m.*

*Bartow Service Office
170 Century Boulevard
Bartow, Florida
(863) 534-1448*

PEACE RIVER BASIN BOARD

Patsy C. Symons, *Co-Chair Ex Officio*

C. A. "Neil" Combee, Jr., *Co-Chair Ex Officio*

J. Kenneth Harrison, *Vice Chair*

Ann W. Dunlap, *Member Rufus*

C. Lazzell, *Secretary James L.*

Hageman, *Member Paul G.*

Samuels, *Member*

Fred W. Trippensee, III, *Member*

Committee Members:

Basin Board Land Resources Committee:

**Ken Harrison -
primary Fred
Trippensee -
alternate**

Basin Board Education Committee:

**Paul Samuels-
primary Fred**

**Trippensee -
alternate**

**Charlotte Harbor National Estuary Program
Policy Committee:**

Rufus Lazzell

Agenda

PEACE RIVER BASIN BOARD MEETING

Bartow, Florida

July 27, 2007

9:30 a.m.

<u>Item</u>	<u>Presenter</u>
1. Call to Order and Roll Call	Pat Symons/Phyllis Young
2. Pledge of Allegiance to the American Flag and a Moment of Silence	Pat Symons
3. Additions and Deletions to the Agenda	Lou Kavouras
4. Oath of Office for Appointed/Re-Appointed Board Members	Phyllis Young
5. Consent Items:	
a. Minutes of the June 8, 2007, Meeting [<i>Exhibit 1</i>]	Lou Kavouras
b. Board Encumbrances:	
i. Facilitating Agricultural Resource Management Systems (FARMS) Program (H017)	Eric DeHaven
ii. Lake Hamilton (P-8) Outfall Canal Erosion Repairs (B670)	Mike Holtkamp
iii. Peace River/Manasota Regional Water Supply Authority Integrated Regional Loop System - Phase 2 (H051)	Gregg Jones
iv. Peace River/Manasota Regional Water Supply Authority Integrated Regional Loop System - Phase 3 (H052)	Gregg Jones
v. Lake Jackson Minimum Flows and Levels Recovery (B198)	Mark Hammond
vi. Ridge Lakes Stormwater Improvement – Implementation of Best Management Practices (B217)	Mark Hammond
vii. Lake Hancock Lake Level Modification Project (H008)	Mark Hammond
viii. Peace Creek Canal Watershed Management Project (H034)	Mark Hammond
ix. Alligator Creek Wetlands Restoration Project (W511)	Mark Hammond
6. Discussion Items:	
a. Hillsborough County – South/Central Regional Reclaimed Water Project (H068)	Gregg Jones
b. Design and Construction of the Lake Placid Reuse Project (L153)	Tammy Antoine
c. Fiscal Year 2008 Budget Discussion and Approval of Final Millage Rate and Budget for Governing Board Approval [<i>See Budget Tab</i>]	Bruce Wirth
7. Announcements:	Lou Kavouras
a. Joint Governing Board/Basin Board Workshop: Tuesday, September 11, 2007; time and location to be determined	
b. Next Basin Board Meeting and Workshop: Friday, October 5, 2007, 9:30 a.m., Bartow Service Office	
c. Springs Conference: October 10-12, 2007, Innisbrook Resort, Tarpon Springs	
d. Public Land Acquisition and Management Partnership Conference: December 5-7, 2007, Hyatt Regency, Sarasota	
e. Other	
8. Adjournment	Pat Symons

Information Items are included in the Summary Agenda

Summary Agenda

PEACE RIVER BASIN BOARD MEETING

Bartow, Florida

July 27, 2007

9:30 a.m.

1. **Call to Order and Roll Call**

Presenters: Pat Symons, Co-Chair Ex Officio

Peace River Basin Board

Phyllis Young, Senior Administrative Assistant Boards
and Executive Services

2. **Pledge of Allegiance to the American Flag and a Moment of Silence**

Presenter: Pat Symons

3. **Additions/Deletions to the Agenda**

Presenter: Lou Kavouras, Deputy Executive Director
Outreach, Planning and Board Services

4. **Oath of Office for Appointed/Re-Appointed Board Members**

Presenter: Phyllis Young

5. **Consent Items:**

a. **Minutes of the June 8, 2007, Meeting**

See Exhibit 1

Basin Board members were provided minutes of the June 2007

meeting for review. Staff Recommendation:

Approve the June minutes, as presented.

Presenter: Lou Kavouras, Deputy Executive Director
Outreach, Planning and Board Services

b. **Board Encumbrances**

i. **Facilitating Agricultural Resource Management Systems (FARMS) Program (H017)**

Purpose

The purpose of this request is to encumber funds, without an agreement, for use in contracting with agricultural operations within the Peace River Basin Board's portion of the Southern Water Use Caution Area (SWUCA) to achieve water quality and water use resource benefits through the Facilitating Agricultural Resource Management Systems (FARMS) Program.

Background/History

The District's FARMS program, developed by the District and Florida Department of Agriculture and Consumer Services, is a public/private agricultural Best Management

Practices (BMP) cost-share reimbursement program. FARMS is intended to expedite the implementation of production-scale agricultural BMPs that provide water resource benefits. Resource benefits of the FARMS Program include reduced Floridan aquifer withdrawals, water quality improvements (both from ground water and surface water sources) and/or conservation, restoration, and augmentation of the area's water resources and ecology. The District's emphasis through the FARMS program is on reductions in Upper Floridan aquifer withdrawals that will improve ground water conditions as documented in the SWUCA recovery strategy. In addition, the District also provides funding for projects that improve water quality affected by the use of mineralized ground water as documented in the Shell and Prairie Creek Watershed Management Plan – Reasonable Assurance Documentation. Reimbursement cost-share rates are capped at 50 percent for water quantity withdrawal reductions from the Upper Floridan aquifer **or** water quality improvements realized from decreasing the use of mineralized ground water, and at 75 percent for both water quantity **and** water quality improvements.

The FARMS Program has shown good success to date. A total of 38 projects are Board approved which will result in approximately 10.5 mgd of groundwater offset with a corresponding improvement in surface water quality within the vicinity of several project areas. The Peace River Basin Board has approved 24 FARMS projects with additional FARMS projects anticipated to be presented for approval over the next year.

Benefits/Costs

In FY2007, a total of \$400,000 was budgeted by the Peace River Basin to provide funding for FARMS projects. This amount represents the FY2007 State Appropriation allocated to the Peace River Basin with no additional matching funds required due to previous years Basin funding. Seven projects were approved in FY2007 utilizing Basin and State Appropriation funds from previous years encumbered funds and FY2007 budgeted funds at a total Basin cost of \$889,045. Therefore, an amount of \$176,366 is available to be encumbered for use in FY2008. These funds will support FARMS projects anticipated to be developed as a result of the past success and continued future expansion of the FARMS Program.

Staff Recommendation:

Approve the encumbrance of up to \$176,366, or the remaining dollars available, from the FY2007 budget for future year FARMS projects.

Presenter: Eric C. DeHaven, P.G., Director
Resource Conservation & Data Department

ii. **Lake Hamilton (P-8) Outfall Canal Erosion Repairs (B670)**

The purpose of this item is to approve the encumbrance of \$100,000, without a contract, for use in FY2008. Funds will be used to repair erosion damage on the Lake Hamilton (P-8) Outfall Canal.

The overall B670 budget provides for funding for annual inspections and operation and maintenance (O&M) activities on Southwest Florida Water Management District (District) water control structures and canal systems. The District owns, maintains and operates 10 structures and canals in the Peace River Basin, most controlling regional lake systems central to the Lakeland-Winter Haven area of Polk County and providing flow to the Peace River. Four major structures and canals on the eastern chain-of-lakes system in Winter Haven are operated and maintained by agreement

with the Lake Region Lakes Management District (LRLMD). The District retains ownership of the four structures, P-5, P-6, P-7, and P-8 and canals, and reimburses the LRLMD for O&M costs related to these facilities. These four facilities are primarily water conservation structures but are also critical for flood management and mitigation.

The erosion control repairs at the Lake Hamilton Outfall Canal (P-8) may include re-shaping of the existing slopes and installing sod.

Staff Recommendation:

Approve the encumbrance of \$100,000 from FY2007 funds, without a contract, to be used for Lake Hamilton (P-8) Outfall Canal Erosion Repair Project during FY2008.

Presenter: Michael L. Holtkamp, Director, Operations Department

iii. **Peace River/Manasota Regional Water Supply Authority Integrated Regional Loop System Phase 2 (H051)**

Purpose

Encumber \$202,500 in FY2007 funds, without a contract, for the Peace River/Manasota Regional Water Supply Authority's (Authority) Integrated Regional Loop System Phase 2 (H051).

Background/History

The Integrated Regional Loop System project is a series of transmission pipelines being developed to transfer and deliver water from existing and future sources to demand centers within the Authority's four county region. This project is the second phase of the Integrated Regional Loop System, and is intended to provide additional regional transmission capacity to the City of North Port and Charlotte and DeSoto counties. Future connections with this pipeline may include Sarasota County, Englewood Water District, and the City of Venice.

Phase 2 was approved for funding during the FY2007 cooperative funding cycle. Recently the Authority's Board approved a consultant team for the design and construction services for the project but withheld the notice to proceed. The Authority continues to recognize the significance of an interconnected regional pipeline system but currently lacks a sufficient funding mechanism to move forward with its development. A workshop is scheduled for July 25, 2007, for Authority members to discuss future pipeline funding. It is anticipated that a new Authority pipeline funding policy will be in place within six months, allowing this project to move forward.

Benefits/Costs

The development of this project will further integrate regional resources, maximize surface water for public supply, provide rotational capacity and the ability to rest sources, provide reserve capacity for emergency transfers, limit the development of ground water in the Southern Water Use Caution Area, and better match supply, demand, and financial investment on a regional basis.

The total estimated project cost is \$106,368,000, with the District's share being \$53,184,000. The total amount of funding being requested from the Peace River Basin Board for this project is \$7,179,840. District staff is requesting \$202,500 budgeted in FY2007 by the Peace River Basin Board, be board encumbered without a contract.

Staff Recommendation:

Approve the encumbrance of \$202,500, without a contract, for the Peace River/Manasota Regional Water Supply Authority Integrated Regional Loop System Phase 2 (H051).

Presenter: Gregg W. Jones, P.G., Director
Resource Conservation & Development Department

iv. Peace River/Manasota Regional Water Supply Authority (Authority) Integrated Regional Loop System Phase 3 (H052)

Purpose

Encumber \$182,250 in FY2007 funds, without a contract, for the Peace River/Manasota Regional Water Supply Authority's (Authority) Integrated Regional Loop System Phase 3 (H052).

Background/History

The Integrated Regional Loop System project is a series of transmission pipelines being developed to transfer and deliver water from existing and future sources to demand centers within the Authority's four county region. This project is the third phase of the Integrated Regional Loop System and is intended to construct a pipeline from Sarasota County's Carlton Water Treatment Facility north to Manatee County's water system.

Phase 3 was approved for funding during the FY2007 cooperative funding cycle. Recently the Authority's Board approved a consultant team for the design and construction services for the project but withheld the notice to proceed. The Authority continues to recognize the significance of an interconnected regional pipeline system, but currently lacks a sufficient funding mechanism to move forward with its development. A workshop is scheduled for July 25, 2007, for Authority members to discuss future pipeline funding. It is anticipated that a new Authority pipeline funding policy will be in place within six months, allowing this project to move forward.

Benefits/Costs

The development of this project will further integrate regional resources, maximize surface water for public supply, provide rotational capacity and the ability to rest sources, provide reserve capacity for emergency transfers; limit the development of ground water in the Southern Water Use Caution Area, and better match supply, demand and financial investment on a regional basis.

The total estimated project cost is \$146,194,700, with the District's share being \$73,097,350. The total amount of funding being requested from the Peace River Basin Board for this project is \$9,868,084. District staff is requesting \$182,250, budgeted in FY2007 by the Peace River Basin Board, be board encumbered without a contract.

Staff Recommendation:

Approve the encumbrance of \$182,250, without a contract, for the Peace River/Manasota Regional Water Supply Authority Integrated Regional Loop System Phase 3 (H052).

Presenter: Gregg Jones

v. Lake Jackson Minimum Flows and Levels Recovery (B198)

Purpose

This is an action item. Staff is requesting the Board approve the encumbrance of \$210,000 without a contract for the Lake Jackson Minimum Flows and Levels (MFLs) Recovery to be rolled into FY2008.

Background/History

This is a multi-year project funded as a Basin Initiative to develop lake level recovery strategies for Lakes Jackson and Little Jackson consistent with the Southern Water Use Caution Area (SWUCA) recovery plan. MFLs have been established on these two lakes and recovery strategies are needed to maintain these levels if determined to be feasible. This project will identify lake level recovery strategies for Lake Jackson and Little Lake Jackson and will determine the feasibility of these strategies through the use of detailed hydrologic models. Projects that are determined to be feasible would be implemented to help meet the minimum lake levels.

Benefits/Costs

This project will determine the feasibility of projects to help meet the minimum lake levels for Lake Jackson and Little Jackson through structural modifications along the Jackson-Josephine canal. The funds requested to be encumbered in the amount of \$210,000 will be used for design and permitting of any projects that are determined to be feasible.

The total project budget is \$417,500. In FY2005, \$77,500 was provided by the Peace River Basin to complete the initial evaluation of the watershed and the preliminary alternative cost estimate. This phase has been completed. For FY2006, \$130,000 was included in the Basin's budget and is being used to complete the initial water budget model. Funding for FY2006 includes \$41,176 from the Peace River Basin, \$58,824 from the State Surface Water Restoration fund, and \$30,000 from Highlands County as revenue. The FY2007 funds budgeted in the amount of \$210,000 includes \$105,000 from the State Surface Water Restoration Fund, and \$105,000 provided by the Peace River Basin Board. Additional funding in the future will be requested to implement the lake level recovery alternatives if determined to be feasible.

Staff Recommendation:

Approve the encumbrance of \$210,000 without a contract for the Lake Jackson MFL Recovery Feasibility Study to be used in FY2008.

Presenter: Mark A. Hammond, Director, Resource Management Department

vi. Ridge Lakes Stormwater Improvement – Implementation of Best Management Practices (B217)

Purpose

This is an action item. Staff is requesting the Board approve the encumbrance of \$215,958 without a contract for the Ridge Lakes Stormwater Improvement Project – Implementation of Best Management Practices (BMPs) to be rolled into FY2008. These funds will be used for the construction of the Lake Menzie stormwater project.

Background/History

Approximately twenty-six Ridge lakes were identified by the District as having significant impacts from direct stormwater discharges. The District and cooperators

are moving forward with the implementation of stormwater retrofit projects for these lakes. The first to be implemented will be a stormwater treatment system for Lake Menzie located in the Town of Dundee. The system will treat runoff from the commercial area of Dundee and State Road 17, and will consist of two swales, two retention basins, and a long infiltration basin (French drain). The Town of Dundee is participating in the project by providing the land for the project. The project will be constructed within the town's park land adjacent to the lake. The Florida Department of Transportation is providing 50 percent of the funding for the work on Lake Menzie.

Benefits/Costs

The cost to complete the design, permitting, and construction of the Lake Menzie stormwater project is \$363,000. The Peace River Basin Board budgeted \$110,000 in FY2006 for the design and permitting services, and budgeted \$253,000 in FY2007 for construction and construction management. An agreement has been executed with a consultant to complete the design, permitting, and construction management of these two projects for the amount of \$147,042. The \$215,958 requested to be encumbered will be used to construct the project for Lake Menzie under a separate agreement with a construction contractor after the design and permitting has been completed. It is anticipated that construction will be completed by December 2008.

Staff Recommendation:

Approve the encumbrance of \$215,958 without a contract, for the Ridge Lakes Stormwater Improvement – Implementation of Best Management Practices project to be used in FY2008.

Presenter: Mark A. Hammond

vii. Lake Hancock Lake Level Modification Project (H008)

Purpose

This request is to encumber \$600,000, of which \$75,000 is from the Peace River Basin Board, without a contract, for the Lake Hancock Lake Level Modification Project. These funds are what remain unencumbered from FY2007, and will be combined with the \$2,842,000 proposed for the FY2008 budget for engineering design and construction permitting, and implementation/construction activities associated with the Lake Level project.

Background/History

Groundwater withdrawals in the Southern Water Use Caution Area (SWUCA) have resulted in declines in aquifer levels throughout the SWUCA and contribute to reduced flows in the upper Peace River. The Lake Hancock Lake Level Modification project is critical in the District's strategies for meeting the minimum flows in the upper Peace River. The goal of the project is to store water by raising the control elevation of the existing outflow structure on Lake Hancock and to slowly release water during the dry season to help meet the low flow requirements in the upper Peace River. The project is funded by the Governing Board (50 percent), Peace River Basin Board (25 percent), Alafia River Basin Board (12.5 percent), and Manasota Basin Board (12.5 percent). The funding percentages were based on the contribution to the declines in aquifer levels from the withdrawals within those areas.

This project is one of a series of projects being pursued to meet the proposed minimum flows for the upper Peace River, which are 17 cubic feet per second (cfs) at Bartow, 27 cfs at Fort Meade, and 45 cfs at Zolfo Springs. During the 30-year period from 1975 through 2004, flows in the upper Peace River were below the proposed

minimum flows at Fort Meade approximately 28 percent of the time. Preliminary results indicate that storing water in Lake Hancock may recover up to approximately 50 percent of the minimum flows for the upper Peace River, which includes accounting for approximately 25 cfs of sink losses within the river.

The District has budgeted \$2,712,000 for the Lake Level Project through FY2007 from the Basin and Governing Boards and State funds, \$600,000. To date, the District has expended or encumbered under contract \$2,012,842 for Step 1 Evaluation (completed) and Step 2 Preliminary Design, Engineering and Conceptual Environmental Resource Permit (ERP). A Conceptual ERP has been obtained from the Florida Department of Environmental Protection for the project. The remaining \$600,000 (\$75,000 from the Basin) budgeted in FY2007 and funds requested in FY2008 are needed for Step 3 Final Design, construction Engineering and ERP permitting, and implementation. Staff is requesting the Board approve the encumbrance of the \$600,000 of which \$75,000 is from the Peace River Basin Board, without a contract, so the funds can be rolled into FY2008 for implementation of the project subsequent to Governing Board authorization of the project.

The funding breakdown is as follows:

Governing Board	\$ 150,000
Alafia Basin Board	\$ 37,500
Peace River Basin Board	\$ 75,000
Manasota Basin Board	\$ 37,500
State Funding	\$300,000

Benefits/Costs

The \$600,000 will continue the management and implementation of the Lake Hancock Lake Level Project for Minimum Flows and Recovery for the upper Peace River.

Impact If Not Funded

If the funds are not encumbered, the District will not have sufficient funding to continue implementation of the project.

Staff Recommendation:

Approve the encumbrance of \$600,000, of which \$75,000 is from the Peace River Basin Board, without a contract, to be used in FY2008 for implementation of the Lake Hancock Lake Level Modification Project.

Presenter: Mark A. Hammond

viii. Peace Creek Canal Watershed Management Project (H034)

Purpose

This request is to encumber \$747,642 of which \$199,292.60 is from the Peace River Basin Board, \$199,292.60 is from the Governing Board and \$349,056.80 is from the Ecosystem Trust Fund in fiscal year (FY) 2007 without a contract for the Peace Creek Canal Watershed Management Project. These funds are what remain unencumbered from fiscal year FY2007, and will be used for canal restoration and maintenance, engineering design, and permitting.

Background/History

In 2005, the District agreed to take on the responsibility to maintain and, where possible, improve the water conveyance/storage capabilities of the Peace Creek Canal. In an effort to achieve this goal, the objectives have been split into two distinct areas: maintenance activities and the development of a watershed management plan. The maintenance activities include funding provided by Natural Resource Conservation Service (NRCS) and the Governing Board which was used to remove hurricane debris in the canal. In addition, aquatic weed control sprayings and several sediment removal activities have been completed. The first Aquatic Weed Control spraying took place November 2005 and the sprayings have continued at least three (3) times a year thereafter. Construction was completed on several priority sediment removal sites at the end of May 2007. Additional sediment removal sites have been identified and design and permitting on those sites will begin in July 2007. A larger District effort was to develop a watershed management plan which evaluates opportunities within the various lakes and wetland areas for potential surface water storage systems within the Peace Creek Watershed to help restore flows in the Upper Peace River.

Benefits/Costs

The Peace Creek project will help restore flows to the upper Peace River, improve natural systems and enhance flood protection. In FY2007, \$1,250,000 was budgeted for plan development, Peace River Estates buyout, aquatic plant management, and sediment removal. The Peace River Basin Board and the Governing Board each budgeted \$400,000, and the District received \$450,000 from the Ecosystem Trust Fund. Of the budgeted funds, \$252,358 was used to perform aquatic plant management and sediment removal activities and \$250,000 was used to purchase homes in the Peace River Estates that were severely flooded during the 2004 hurricane season. The remaining Peace River Basin Board and Governing Board funds are needed for sediment removal and aquatic plant management, canal restoration, engineering design, and permitting.

Staff Recommendation:

Approve the encumbrance of \$747,642, with \$199,292.60 from the Basin Board, without a contract for the Peace Creek Watershed Management Plan Project to be used in FY2008 for canal restoration and maintenance, engineering design, and permitting.

Presenter: Mark A. Hammond

ix. Alligator Creek Wetlands Restoration Project (W511)

Purpose

This request is to encumber \$200,000 without a contract, for the Alligator Creek Habitat Restoration Project (W511). These funds are what remain unencumbered from FY2007 and will be used for completing Phase II construction and Phase III design and permitting.

Background/History

This multi-year, multi-phase project is a Surface Water Improvement and Management (SWIM) Program initiative. The project involves the hydrologic restoration of approximately 677 acres of freshwater and saltwater wetland and salttern areas critical to early life stages of many economically-important fishes in Charlotte Harbor. The project site is part of the Charlotte Harbor Preserve State Park, which is operated and maintained by the Florida Department of Environmental

Protection. The restoration activities are being performed in phases based on available funds. Phase II is presently under construction. Funds budgeted in FY2007 are for completing Phase II construction and the design and permitting of Phase III of the project.

Benefits/Costs

Completion of Phase II (presently under construction) will restore the historic hydroperiod and associated coastal habitats to approximately 600 acres of wetland and saltern areas which have been severely impacted by anthropogenic activities. Phase III would restore an additional approximately 80 acres of coastal ecosystems. It is anticipated that additional funding during future fiscal years will be necessary to meet all construction expenses. District staff will seek grant funding to help offset construction costs.

Staff Recommendation:

Approve the encumbrance of \$200,000 remaining in FY2007 funds for the Alligator Creek Wetlands Restoration Project to be used in FY2008 for construction, design, and permitting activities.

Presenter: Mark A. Hammond

6. **Discussion Items:**

a. **Hillsborough County – South/Central Regional Reclaimed Water Project (H068)**

Purpose

This item is presented to request the Peace River Basin Board approve funds in its FY2008 budget for a preliminary design and engineering study of the Hillsborough County and Mosaic Fertilizer Reclaimed Water Project. This request is also being made to the Governing Board and the Alafia River Basin Board.

Background/History

In May 2007, District staff was made aware of a project proposal developed by Hillsborough County and Mosaic Fertilizer, Inc., that involved bringing reclaimed water from the county's south-central reclaimed water system to Mosaic's Hopewell Mine clay settling areas in Polk County. From there, the reclaimed water would be piped to Mosaic's Bartow and New Wales processing plants also in Polk County, where it would offset up to 10 mgd of Mosaic's groundwater use. The second part of the project would be to assign the offset ground water from Mosaic to municipalities in Polk County, such as Lakeland and Bartow to meet their potable water supply needs. To further investigate the project concept, the county and Mosaic are requesting District funding support for a permitting, design, and engineering (PD&E) feasibility study. The cost of the study would be \$1 million, and the District is being requested to pay half.

As District staff evaluated the proposal, it was clear that the project had a number of promising elements. However, staff has several concerns regarding project details, particularly those surrounding the assignment and compensation of Mosaic's offset ground water. A complicating factor was that the county asked the District to approve the funding for the PD&E study out of cycle, i.e., not as part of the 2008 cooperative funding cycle. This was because the county needed to quickly make a decision on how its wastewater would be utilized to ensure that wastewater disposal issues would not hinder future development. At the May 2007 Governing Board meeting, the county and Mosaic presented the project concept and the request for the District's half of the \$1 million cost of the PD&E study. Following the presentation and significant discussion,

the following motion was approved: 1) the Governing Board expressed its interest and appreciation in this project by requesting staff to proceed with the investigation and review of the project; 2) to present the project to the Basin Boards; 3) to work the project into the FY2008 budget process; and 4) to encourage Hillsborough County to proceed with this project to the fullest degree possible.

On June 8, 2007, Governing Board Member Neil Combee, Executive Director David Moore, and Deputy Executive Director Bruce Wirth met with representatives from Hillsborough County to help District staff better understand the overall project, and to relay to the county the District's concerns and requirements with committing to the project. The meeting resulted in the District and the county agreeing to work together to share information and resolve the primary questions required for District staff to be comfortable in making a recommendation for funding to the Basin and Governing Boards. The questions/issues include:

1. The need for Hillsborough County to take the lead in managing the project;
2. The need for Hillsborough County to ensure all consultant selection meets Consultant Competitive Negotiation Act (CCNA) criteria;
3. Identifying which elements of the PD&E study are eligible for District cooperative funding;
4. Ensuring all elements of the project are consistent with water use permitting rules, state water law such as "Local Sources First" and/or other applicable policies;
5. Determining which Basins Boards benefit from the project in order to determine their funding share;
6. Determining the role of various parties, and agreements that would be required; and Determining whether revenues, such as the Water Protection and Sustainability Trust Fund (Senate Bill 444) can be applied to elements of the project.
7. The need to ensure that a private entity such as Mosaic does not profit financially from a project funded with public money.

It is important to note that elements of the construction phase of the project that are eligible for District funding will not be determined until the PD&E study is complete. In addition, issues of assignment of and compensation for groundwater credits will be resolved prior to additional funds being requested from the Governing and Basin Boards.

Benefits/Costs

The project will reduce groundwater withdrawals and make additional groundwater quantities available in the SWUCA. The cost of the PD&E study is \$1 million; the District was requested to fund 50 percent, or \$500,000.

Staff Recommendation:

Recommend the Peace River Basin Board include \$125,000 for preliminary design and engineering work for the Hillsborough County and Mosaic Fertilizer Reclaimed Water Project (H068) in its FY2008 budget.

Presenter: Gregg Jones

b. Design and Construction of the Lake Placid Reuse Project (L153)

Purpose

To obtain board approval to amend the agreement for the Lake Placid Reuse project as follows: 1) change the scope of work; 2) extend the date for the completion of design; 3) extend the date for the start and completion of construction; and 4) extend the expiration date of the project.

Background/History

In response to a Cooperative Funding Initiative request from the Town of Lake Placid, the Peace River Basin Board approved the funding of this project as part of its FY2004 budget (as a Rural Economic Development Initiative project). The approved project included the design and construction of a reclaimed water pump station and a 500,000-gallon capacity reclaimed water ground storage tank located at the town's wastewater treatment facility, and approximately 13,100 linear feet of 10-inch, 8-inch, and 6-inch diameter reclaimed water transmission main. The project was anticipated to provide approximately 100,000 gallons per day (gpd) of reuse to the Town of Lake Placid to irrigate Town of Lake Placid parks and recreation facilities (81,000 gpd), Lake View Village Retirement facility (4,500 gpd) and citrus groves owned by Bob Paul, Inc. (10,000 gpd). The town estimated that the project would offset approximately 60,000 gpd of groundwater use currently used by these properties for irrigation purposes.

In a letter dated March 7, 2007, the Town of Lake Placid requested an extension of the project timelines due to delays in the execution of the town consulting engineers' design of the on-site reclaimed tanks, pumps, electric system and transmission lines and the associated permitting with the Department of Environmental Protection for the project. During reevaluation of the project it was determined that the Town of Lake Placid was able to obtain a Community Development Block Grant (CDBG) to pay for the construction of the portion of the transmission main (approximately 6,500 linear feet) leading to Lake View Village. Subsequent correspondence from the town requested a change in the scope of work to delete that portion of work that had already been completed and paid for via the CDBG.

The project will now consist of the design and construction of approximately 6,446 linear feet of 10-inch, 8-inch, 6-inch, and 4-inch diameter reclaimed water transmission main, to serve recreational/aesthetic customers to utilize approximately 91,000 gallons per day (gpd) of reclaimed water and offset approximately 54,600 gpd of traditional supply from the intermediate aquifer. This project will also include the design and construction of one

(1) 0.5 million gallon reclaimed water storage tank and associated booster pumping system. Associated dates for design and construction would be changed as follows: design completion date from May 1, 2006, to June 30, 2007; construction commencement date from May 1, 2006 to May 1, 2008; and construction completion date from May 1, 2007 to May 1, 2009. The project expiration date will be extended from December 31, 2008, to December 31, 2010.

Benefits/Costs

The Town of Lake Placid is requesting no change in the cost associated with the project. The approved total project cost is \$1,374,200, with the District's share not to exceed \$928,060, and the town's share not to exceed \$446,140. This funding contribution ratio represents a 67.5 percent / 32.5 percent District/Town split, as approved by the Peace River Basin Board. In the FY2006 budget, funds in the amount of \$117,420 were allocated from the Water Protection Sustainability Trust Fund Program. This amount would be applied to the project equally reducing the town's and District's share. To date, the Peace River Basin has budgeted \$100,000 in FY2004, \$414,030 in FY2005, and \$448,544 in FY2006. The town anticipated providing its portion of the funding from grant sources, such as a CDGB and other sources. Although the project scope has decreased by 6,654 linear feet of pipeline, the total cost of the project has not decreased due to 1) the increase of costs of construction and engineering fees in the three years since the last estimates were prepared, and 2) the most complex and expensive portions of the project are yet to be constructed.

Staff Recommendation:

1. Recommend the Basin Board approve a change in the project's scope of work.
2. Recommend the Basin Board approve the extension of the design completion date from May 1, 2006, to June 30, 2007.
3. Recommend the Basin Board approve the extension of the construction start date from May 1, 2006, to May 1, 2008, and the construction completion date from May 1, 2007, to May 1, 2009.
4. Recommend the Basin Board approve the extension of the expiration date of the project from December 31, 2008, to December 31, 2010.
5. Authorize the Executive Director to sign the third amendment to the agreement with Lake Placid.

Presenter: Tammy Antoine, Staff Water Conservation Analyst Resource
Conservation & Development Department

c. FY2008 Budget Discussion and Approval of Final Millage Rate and Budget for Governing Board Approval

Purpose

Adopt the final FY2008 millage rate in compliance with the new tax reform legislation, House Bill 1B (HB 1B) which was signed into law on June 21, 2007, and adopt the final FY2008 budget for the Governing Board approval. The Florida Department of Revenue has determined that the District and Basins must certify compliance with HB 1B when the proposed millage rates are certified to the county Property Appraisers by August 4. Therefore, all Basins will hold special July budget meetings, after the Certifications of Taxable Value have been received (all due by July 15), to review and adopt final recommended millage rates consistent with HB 1B. Following these meetings, the Governing Board will meet on July 31 to adopt the proposed FY2008 millage rates for the Basins and District. The proposed millage rates will be certified by August 4 to the county Property Appraisers for the Truth in Millage (TRIM) noticing to all taxpayers.

The Basin's proposed budget for FY2008 has been updated to reflect ad valorem tax revenue at the maximum millage rate for FY2008, which is equal to 97 percent of the rolled-back rate in compliance with HB 1B. This rate was computed based on the Certifications of Taxable Value received from the county Property Appraisers.

Background

In April, the Peace River Basin Board received a preliminary budget for FY2008. Staff reviewed the budget for discussion and initial direction from the Basin Board concerning the funding levels of the various budget categories, including prioritization of the Cooperative Funding proposals and other Basin projects. Direction received from the Basin Board at the April meeting was incorporated into the budget and a revised budget was presented to the Basin Board in June.

In June, the Basin Board adopted a proposed millage rate of 0.195 for FY2008, the same level of FY2007. As part of the proposed budget resolution, the Basin Board expressed intent to approve a final millage rate and budget after the Special Session and in accordance with any ad valorem tax rollback prescribed by the Legislature and approved by the Governor.

The Legislature's special session for tax reform was held from June 12-14, 2007. The new legislation, HB 1B, provides maximum millage rates for local governments and independent special districts, including water management districts, for FY2008 and future years. For FY2008, the maximum millage rate for independent special districts is

established at 97 percent of the rolled-back rate. This means ad valorem revenue for FY2008 will be equal to prior year revenue (FY2007) adjusted for new construction, additions and deletions, then reduced by three percent. For the following fiscal year (FY2009), HB 1B sets the maximum millage rate at the rolled-back rate, adjusted for growth in per capita Florida personal income (estimated at 4.26 percent). Additionally, a constitutional amendment is to be placed on the January 29, 2008 ballot for approval of a new "super homestead exemption" which, if voter-approved, would further reduce ad valorem revenue in FY2009 and beyond. The initial impact would not be known until July 2008.

The following override provisions are included in HB 1B as enacted:

- Maximum millage rate may be increased to the rolled-back rate (without the three percent reduction) if approved by two-thirds vote of the full Basin Board and two-thirds vote of the full Governing Board.
- Maximum millage rate may be increased to the millage rate levied for FY2007, if approved unanimously by the full Basin Board and three-fourths vote of the full Governing Board.
- Maximum millage rate may be higher than the FY2007 millage rate only if approved by referendum of the voters.

Note: Consistent with the Executive Office of the Governor's authority to approve or disapprove, in whole or in part, the budget of each water management district, Section 373.536(5)(a), Florida Statutes, any actions taken by the Basin Board and the Governing Board in response to HB 1B, including exercise of the override provisions, would be subject to approval by the Governor.

At the July meeting, an update on the Peace River/Manasota Regional Water Supply Authority activities will be provided prior to the review of the proposed budget. Staff will review the proposed FY2008 Budget Comparison Report as to the changes that have been made since the June meeting, and seek final direction regarding the allocation of resources for FY2008. At the conclusion of the meeting, staff will ask for approval of the final FY2008 millage rate and budget.

For the past 13 years, the Peace River Basin Board has adopted a millage rate of 0.195. Consistent with HB 1B, the millage rate for FY2008 is set at 0.1827. All FY2008 Cooperative Funding project proposals currently being considered are included in the budget. Projects not recommended for funding have been tentatively removed from the budget, but are shown for the Board's information below the revenues section of the Budget Comparison Report.

Information provided includes: Budget Progress Report for the nine months ended June 30, 2007, FY2008 Budget Comparison Report, and final millage rate and budget resolution under the Budget tab; and detailed project descriptions for each project considered in the budget under the Projects tab.

Staff Recommendation:

See Budget Tab

1. Approve and adopt the final required millage rate of 0.1827 for FY2008.
2. Approve and adopt the final FY2008 budget for Governing Board approval.
3. Approve Resolution No. 99 -- Resolution Affirming the Required Final Millage Rate and Budget for Fiscal Year 2008.

Presenters: Bruce C. Wirth, Deputy Executive Director
Division of Resource Management and Development

Pat Lehman, Executive Director, Peace River/Manasota Regional Water Supply Authority
(PR/MRWSA) - Activities Update

7. **Announcements:**

Lou Kavouras

a. Joint Governing Board/Basin Board Workshop: Tuesday, September 11, 2007; time and location to be determined

- b. Next Basin Board Meeting: Friday, October 5, 2007, 9:30 a.m., Bartow Service Office
- c. Springs Conference: October 10-12, 2007, Innisbrook Resort, Tarpon Springs
- d. Public Land Acquisition and Management Partnership Conference: December 5-7, 2007, Hyatt Regency, Sarasota
- e. Other

8. **Adjournment**

Pat Symons

******Information Items******

The item(s) listed below are for the Board's information, intended to keep the Board apprised of completed projects, cancelled projects, and projects that have executed contracts and are ready to begin. The item(s) did not require Board action at this time.

1. **Alligator Branch, Thompson Branch, and City of Wauchula Watershed Management Plan (M104) - Execution Notice**

Fiscal year 2005 Federal Emergency Management Agency (FEMA) funding for the Hardee County Map Modernization project will be used to update the flood insurance rate maps countywide. An agreement with Keith and Schnars, P.A., was executed to perform a watershed management plan in the Alligator Branch, Thompson Branch, and City of Wauchula watersheds. The project is scheduled to begin in July 2007 and be completed by March 2008. The total project cost is \$180,000 with FEMA contributing the entire cost to perform the watershed management plans. Please refer to the write-up in the Projects section of this notebook for detailed information. The Executive Director signed this agreement on June 6, 2007. Copies of the executed agreement and scope of work are available upon request.

2. **Buzzards Roost Run Watershed Management Plan (M104) - Execution Notice**

Fiscal year 2005 Federal Emergency Management Agency (FEMA) funding for the Hardee County Map Modernization project will be used to update the flood insurance rate maps countywide. An agreement with URS Corporation Southern was executed to perform a watershed management plan in the Buzzards Roost Run Watershed in Hardee County. The project began in July 2007 and is to be completed by June 2008. The total project cost is \$60,000 with FEMA contributing the entire cost to perform the watershed management plans. Please refer to the write-up in the Projects section of this notebook for detailed information. The Executive Director signed this agreement on June 19, 2007. Copies of the executed agreement and scope of work are available upon request.

3. **Crop Coefficients and Water Use for Peppers in Southwest Florida (B238) – Execution Notice**

This FY2007 Basin Initiative is a water-conserving project to determine crop coefficients and improve irrigation management for pepper production. The \$135,000 project is funded by five basin boards (Alafia Basin Board, \$66,150; Hillsborough River Basin Board, \$25,650;

Manasota Basin Board, \$20,250; Peace River Basin Board, \$10,800; and the Withlacoochee River Basin Board, \$12,150) over three years. Please refer to the write-up in the Projects section of this notebook for detailed information. The Executive Director signed this agreement on June 25, 2007. Copies of the executed agreement and scope of work are available upon request.

4. Punta Gorda Shell Creek Water Treatment Plant Expansion to 10 Million Gallons per Day (H060) - Execution Notice

This FY2007 Water Supply and Resource Development project with the City of Punta Gorda will expand the City of Punta Gorda's Shell Creek Water Treatment Plant (WTP) from 8 to 10 million gallons per day. The intent is to make water available to address a potential water supply shortfall that may occur while the Peace River/Manasota Regional Water Supply Authority completes its facility expansion in 2008. The project was scheduled to begin in November 2006 and be completed by February 2008. The total project cost is \$3,000,000 and will be funded as follows: \$547,500 from the Manasota Basin Board; \$202,500 from the Peace River Basin Board; \$750,000 from the Governing Board; and \$1,500,000 from the City of Punta Gorda. Please refer to the write-up in the Projects section of this notebook for detailed information. The Executive Director signed this agreement on June 14, 2007. Copies of the executed agreement and scope of work are available upon request.

The District does not discriminate based on disability. Anyone requiring reasonable accommodation under the ADA should contact the Executive Department at (352) 796-7211 or 1-800-423-1476 (Florida only), extension 4615; TDD only, 1-800-231-6103 (Florida); fax (352) 754-6874/SunCom 633-6874.

DRAFT

Minutes of the Meeting

Peace River Basin Board

Southwest Florida Water Management District Bartow,

Florida

June 8, 2007

The Peace River Basin Board of the Southwest Florida Water Management District convened for a regular meeting June 8, 2007, at 9:32 a.m., at the Bartow Service Office.

Board Members Present

C. A. "Neil" Combee, Jr. , Co-Chair Ex Officio
J. Kenneth Harrison, Vice Chair
Ann W. Dunlap, Member
Rufus C. Lazzell, Secretary
James L. Hageman, Member
Paul G. Samuels, Member
Fred W. Trippensee, III, Member

Staff Present

Lou Kavouras
Bruce Wirth
Gregg Jones
Mark Hammond
Mike Holtkamp
Eric Sutton
Brian Armstrong
Chan Springstead
Terri Behling

Via Video

Conference
Lisann Morris
Beth Putnam

Recording

Secretary
Phyllis Young

Board Member Absent

Patsy C. Symons, Co-Chair Ex Officio

A list of others who were present and signed the attendance roster is filed in the permanent files of the Basin. Compact disks of the audio and copies of the materials and handouts, as set out in full herein, are also filed in the permanent files of the Basin.

1. Call to Order and Roll Call

Co-Chair Combee called the meeting to order at 9:32 a.m. Ms. Young called the roll and noted a quorum was present. (CD 1/Track 1)

2. Pledge of Allegiance

Co-Chair Combee led the Pledge of Allegiance to the American Flag. (CD 1/Track 1)

3. Oath of Office for Appointed/Re-Appointed Board Members

This item was deleted from the agenda.

4. Additions and Deletions to the Agenda

Deputy Executive Director Lou Kavouras stated no gubernatorial appointments or confirmations concerning this Board had been forthcoming; therefore, Agenda Item 3 was deleted from the agenda. (CD 1/Track 1)

5. Consent Items

After consideration, Mr. Lazzell moved, seconded by Mr. Samuels, to approve the Consent Items, as follow:

a. April 6, 2007. Meeting Minutes – Approve the April minutes, as presented.

b. Facilitating Agricultural Resource Management Systems (FARMS) – Island Grove Agricultural Products Farm #5 – H522

- 1) Approve the Island Grove Agricultural Products Farm #5 FARMS project for a not-to-exceed project reimbursement of \$187,500, with \$46,875 provided by the Peace River Basin; \$46,875 provided by the Governing Board; and \$93,750 provided from State Appropriations;**

- 2) Authorize the transfer of \$46,875 from fund 020 H017 Peace River Basin FARMS Funds; \$46,875 from fund 010 H017 Governing Board FARMS funds; and \$93,750 from 2003, 2005, and 2007 State Appropriations allocated to fund 020 H017 Peace River Basin State Appropriations, to H522 Island Grove Agricultural Products Farm #5 FARMS project fund; and
 - 3) Authorize the Executive Director to sign the agreement.
- c. Revised Operating Agreement between the District and the Florida Department of Agriculture and Consumer Services (FDACS) for the Facilitating Agricultural Resource Management Systems (FARMS) Program and Revisions to District Procedure - Recommend the Governing Board approve and authorize the Executive Director to sign the revised District/FDACS/FARMS Operating Agreement, Procedure 13-9, and the Funding Contract.
 - d. Proclamation of the Charlotte Harbor National Estuary Program's National Estuaries Days - Recommend the Peace River Basin Board approve the Proclamation for the designation of September 29, 2007, as National Estuaries Days (to be celebrated from September 30 through November 2007).
 - e. Annual Calendar of Meeting Dates - Fiscal Year 2008 - Approve the FY2008 Basin Board meeting schedule, as presented.

Before the final vote on the Consent Items, Co-Chair Combee recognized Dr. Lisa Beever, Director of the Charlotte Harbor National Estuary Program (CHNEP), who thanked the Board for supporting "National Estuaries Days." Information on activities for the events may be found at CHNEP.org and in CHNEP newsletters. Rufus Lazzell, the Basin Board's representative on the CHNEP Policy Committee, thanked Dr. Beever and the CHNEP staff for doing a fine job.

Motion carried unanimously. (CD 1/Track 1)

6. Discussion Items

- a. Approve Agreement and Transfer Funds to Conduct the Peace River/Manasota Regional Water Supply Authority Regional Resource Development Feasibility Study (H063)
Gregg Jones, Resource Conservation and Development Director, presented this item to request approval of the Peace River/Manasota Regional Water Supply Authority's (Authority's) out-of-cycle funding request, which allows the Authority to investigate the feasibility of three sources—the Shell Creek system, Flatford Swamp, and the CowpenSlough/Dona Bay area—for future development. Mr. Jones gave history of the project and reminded the Board that funds had been approved and set aside in the Water Supply and Resource Development Reserve until such time as the Authority's Integrated Regional System Planning & Engineering Study was complete. That study being finished, the Authority was seeking funding for the feasibility study, as expected. Mr. Jones reviewed project costs and the funding breakdown.

After consideration, Mr. Harrison moved, seconded by Mr. Lazzell, to approve the staff recommendation, as follows:

1. Approve the transfer of \$33,750 from the Peace River Basin's Water Supply and Resource Development Reserves to the Peace River/Manasota Regional Water Supply Authority

Regional Resource Development Feasibility Study (H063);

2. **Approve entering into an Agreement with the Peace River/Manasota Regional Water Supply Authority for \$2,500,000, with the District's share not to exceed \$1,250,000 (\$625,000 from the Governing Board; \$456,250 from the Manasota Basin Board; and \$168,750 from the Peace River Basin Board); and**
3. **Authorize the Executive Director to sign the agreement.**

Mr. Lazzell asked that special attention be paid to the Shell Creek aspect of the study, since that is Punta Gorda's main water supply.

Motion carried unanimously. (CD 1/Track 1)

Mr. Jones continued by reporting on recent occurrences regarding the Authority's Phase 1 pipeline to Punta Gorda. He explained the original plan for the pipeline to run to Punta Gorda's water treatment plant. At the Authority's last meeting, the Board decided not to pursue the project, at this time; an alternate route was being considered.

Mr. Lazzell expressed disappointment with the actions at the Authority's last Board meeting and also voiced his hope that the situation would change for the benefit of all Charlotte County.

Ray Pilon, the Authority's Governmental Affairs Coordinator, addressed the Board to clarify happenings surrounding the Authority's decision regarding the Punta Gorda pipeline—the Phase 1 loop system. He shared background of the Authority's pipeline projects and emphasized that the Authority did not approve the Charlotte County alternative pipeline either.

From a budgetary standpoint, Deputy Executive Director Bruce Wirth explained the three projects involved in this discussion: (H50, the Wal-Mart to Punta Gorda pipeline; H60, the Punta Gorda/Shell Creek plant expansion; and (L636), the pipeline from Punta Gorda to Charlotte County, which the Basin Board is solely funding, at this time. Mr. Wirth asked for members' thoughts on these issues. If the two pipeline projects did not go forward, the Punta Gorda/Shell Creek plant expansion would be in limbo. He added that the Manasota Basin Board and Governing Board are also participating, since the projects have a regional benefit. If there is no pipeline (1) the regional benefit is not met and (2) the District cannot fund only the upgrade to the water treatment plant since that would fulfill a local need. Since funds were already approved for the Punta Gorda/Shell Creek plant expansion, Mr. Wirth asked for the Board's comments regarding what to do with those funds.

Members made comments including the following:

1. Mr. Lazzell voiced his opinion that regional systems do not happen "all at once." To "go back" on the Punta Gorda/Shell Creek plant expansion at this time is not right. He assured the Board that he would do all he could to change the course of the Sarasota commissioner who voted against the pipeline.
2. Mr. Hageman stated that the mistakes made by a couple of people do not represent the will of thousands of people who will be negatively impacted by a bad decision. The funds need to be available for the project—not re-allocated; the Board should "stay the course."
3. Mr. Trippensee said the policy should not be changed for the City of Punta Gorda, as it applies to other cities and taxpayers in the Board's jurisdiction. In light of future budget concerns, this may be an opportunity to fill other gaps.
4. Mr. Harrison stated his belief that the pipeline connections are important, especially for emergencies. Although it is a temptation to take the funds, especially when

Legislative tax issues are uncertain, he stated the Board should not pull funds already approved for the project.

Mr. Lazzell suggested the Authority provide Board members a report of facts on these issues. Mr. Hageman suggested the residents of Charlotte County should also have the report. (CD 1/Track 1)

b. Fiscal Year 2008 Budget Discussion and Approval of Proposed Millage Rate

For FY2008 budget preparation, staff presented a preliminary budget and gathered direction from Board members at the April meeting. Members' input was incorporated into the budget, and a revised budget was presented for the Board's consideration at this meeting. Deputy Executive Director Bruce Wirth reminded the Board of two items requiring action: (1) tentative selection of FY2008 Cooperative Funding projects and (2) adoption of a proposed millage rate.

Mr. Wirth reported that the State Legislature did not finish tax deliberations during its Regular Session, which ended May 4, 2007, and called a Special Session to be held June 12 through June 22 to address Governor Crist's desire to provide a measure of tax relief to citizens of the State. The Special Session was to consider a variety of approaches to mandate a rollback of ad valorem tax revenues, which could impact local governments and include independent special districts, such as the water management districts. Since the Basin Board would adopt its proposed millage rate before the Special Session ended, staff recommended the Basin Board adopt a proposed millage rate based on FY2008 project funding requirements and delegate authority to the Executive Director to reduce the millage rate for any mandated change in the amount of ad valorem taxes to be generated by the Basin Board.

Mr. Wirth highlighted the various elements of the budget, including changes made since the April meeting. He explained how Cooperative Funding projects would be affected by the millage rate and described the differences in this year's resolution on the proposed millage rate. Detailed information for all Cooperative Funding proposals submitted for consideration was included in the Projects section of the meeting notebook.

Board members participated in discussion of potential tax reform by the Legislature, the Board's funding of Rural Economic Development Initiative (REDI) projects, and the millage rate.

Highlands County Lakes Manager Clell Ford expressed appreciation to the Basin Board for its support, adding that Highlands County is looking forward to working with the District.

Ruffin Gray, Environmental Coordinator for the City of Lakeland Water Utilities and project lead for project L914, asked the Board's cooperation to go forward with the project.

For the record, Ms. Kavouras read the three-part staff recommendation:

1. Provide tentative selection of FY2008 Cooperative Funding projects.
2. Approve and adopt a required proposed millage rate of 0.195 for FY2008.
3. Approve Resolution No. 98 — Resolution Affirming the Required Proposed Millage Rate for Fiscal Year 2008.

After consideration, **Mr. Samuels moved, seconded by Mr. Harrison, to approve the three-part staff recommendation, as presented. Motion carried unanimously.** (CD 1/Track 2)

Co-Chair Combee stressed that word needs to get to the appropriate people in Tallahassee that all Basin Board budgets are not "created equal." This Board's millage is at 0.195, he related, because this Board has been extremely conservative and careful about keeping check on the millage rate. The Board would not like to see organizations that would benefit from cooperative funding projects punished because of a millage change. (CD 1/Track 2)

7. **Reports:**

a. **Fiscal Year 2007 Peace River Watershed Awareness Week Overview**

Kendra Antoine, Senior Communications Coordinator gave a report on "Spanning the Watershed" events held in April. These events were part of the District's watershed education programs that seek to educate the public on protecting watersheds and water resources within watersheds. Board members participated in these activities in Polk, Hardee, DeSoto, and Charlotte counties. In addition to the special events, Communications and Community and Legislative Affairs staff coordinated with government representatives to designate April 14–21, 2007, Peace River Watershed Awareness Week. Watershed education programs have been funded by the Peace River Basin Board since FY2005.

Several Board members commented on the success of the events in which they participated.

This item was presented for the Board's information; no action was required. (CD 1/Track 3)

During this presentation, Co-Chair Combee passed the gavel to Vice Chair Harrison and left the meeting.

b. **Charlotte Harbor National Estuary Program Policy Committee**

Primary representative to the Charlotte Harbor National Estuary Program (CHNEP) Policy Committee Rufus Lazzell expressed thanks to District staff for their outstanding support of the CHNEP, particularly praising Lizanne Garcia, Senior Environmental Scientist in the Surface Water Improvement and Management (SWIM) section, for a fantastic job in providing guidance to him on CHNEP issues.

Mr. Lazzell reported that he had recently voted against taking the CHNEP Technical Advisory Committee from under the Sunshine Law. Subsequently, he added, the Committee was disbanded.

In closing, Mr. Lazzell expressed appreciation to Dr. Beever for a job well done and stated he was pleased to serve on the CHNEP Policy Committee.

This item was presented for the Board's information; no action was required. (CD 1/Track 3)

c. **Report on Governing Board Activities**

Ms. Kavouras took a moment to recognize Roy Mazur, the District's new Planning Director. She then reported the Governing Board had elected new officers at its May 29 meeting. Judy Whitehead was elected chair; Neil Combee, vice chair; Todd Pressman, secretary; and Jennifer Closshey, treasurer.

Staff played pre-recorded highlights of the May Governing Board meeting, which was narrated by Ms. Kavouras. The brief recap included lower Hillsborough River minimum flows and levels, an out-of-cycle request for funding from Mosaic Fertilizer, the District's

policy regarding brackish water projects, Peace River/Manasota Regional Water Supply Authority projects, Peace River watershed events, and an update of the District's Strategic Plan.

This item was presented for the Board's information; no action was required. (CD 1/ Track 3)

8. Announcements

Announcements were listed on the agenda; no other announcements were made.

9. Adjournment

Since there was no further business to come before the Board, Co-Chair Combee adjourned the meeting at 11:30 a.m. (CD 1/Track 3)

****Information Items****

1. Lake Morton Shoreline Restoration (L480) - Completion Report
2. Evaluating the Potential for Aquifer Storage and Recovery Operation in the Avon Park Formation (B242) - Execution Notice
3. County Parcel Data Acquisition (B530) - Execution Notice
4. Hardee County Watershed Management Program (L679) - Execution Notice
5. Lakes Marie and Menzie Stormwater Improvement (B217) - Execution Notice
6. Lake Parker Southwest Basin Alternative Stormwater Best Management Practices- Construction (L324) - Execution Notice

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Southwest Florida Water Management District
 Peace River Basin
 Budget Progress Report
 Nine Months Ended June 30, 2007

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Projects		Adopted FY2007 Budget	Prior Year Encum- brances	Budget Transfers/ Amendment	Modified FY2007 Budget	Encum- bered To Date	Expended To Date	Remaining Balance
On-Going Activities								
Z010	Board and Executive Services	\$28,533	\$0	\$0	\$28,533	\$0	\$12,126	\$16,407
Z030	Planning	5,910	0	0	5,910	0	3,863	2,047
Z050	Information Resources	11,621	0	0	11,621	0	3,344	8,277
Z060	Communications	37,225	0	0	37,225	0	18,809	18,416
Z074	Risk Management	13,400	0	0	13,400	0	14,571	(1,171)
Z090	Community Affairs	63,129	0	0	63,129	0	31,313	31,816
Z500	Resource Management	99,810	0	0	99,810	0	43,196	56,614
Z550	Resource Conservation and Development	33,022	0	0	33,022	0	7,844	25,178
Z600	Operations	8,641	0	0	8,641	0	7,652	989
Z700	Land Resources	19,974	0	0	19,974	0	24,560	(4,586)
Total On-Going Activities		\$321,265	\$0	\$0	\$321,265	\$0	\$167,278	\$153,987
Property Appraiser & Tax Collector Commissions								
Z910	Pr. App. & Tax Coll. Commissions	\$438,832	\$0	\$0	\$438,832	\$0	\$318,225	\$120,607
Total Property Appraiser & Tax Collector Commissions		\$438,832	\$0	\$0	\$438,832	\$0	\$318,225	\$120,607
Reserves								
Z930	Contingencies	\$500,000	\$0	\$0	\$500,000	\$0	\$0	\$500,000
Total Reserves		\$500,000	\$0	\$0	\$500,000	\$0	\$0	\$500,000
Save Our Rivers (SOR) Reimbursable Projects								
S001	Jack Creek	\$72,994	\$0	\$0	\$72,994	\$8,348	\$23,079	\$41,567
S017	Prairie/Shell Creek	60,649	0	0	60,649	0	11,140	49,509
S029	Upper Lake Marion Creek Watershed	20,880	12,706	0	33,586	7,206	5,562	20,818
S030	RV Griffin Reserve	129,402	0	(1,000)	128,402	10,245	38,133	80,024
S036	Charlotte Harbor State Buffer Preserve	4,966	0	0	4,966	0	1,747	3,219
S040	Lower Peace River (Deep Creek)	197,193	637	0	197,830	16,472	74,871	106,487
S051	Bright Hour Watershed	1,328	0	0	1,328	0	1,811	(483)
S054	Lake Hancock	54,401	1	1,000	55,402	3,601	19,532	32,269
S099	Save Our Rivers Administration	20,024	0	0	20,024	0	4,296	15,728
SA01	Jack Creek Hydrologic & Wetlands Restoration	3,035	140,000	0	143,035	140,000	0	3,035
SA54	Lk Hancock Environmental Education Center	2,822	843,750	0	846,572	843,750	0	2,822
SB40	Deep Creek Recreational Improvements	2,822	118,500	0	121,322	118,500	415	2,407
SB54	Polk County Watershed Exhibit	40,000	0	0	40,000	0	0	40,000

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Projects	Adopted FY2007 Budget	Prior Year Encum- brances	Budget Transfers/ Amendment	Modified FY2007 Budget	Encum- bered To Date	Expended To Date	Remaining Balance
Total Save Our Rivers (SOR) Reimbursable Projects	\$610,516	\$1,115,594	\$0	\$1,726,110	\$1,148,122	\$180,586	\$397,402
Surface Water Improvement & Management (SWIM) Projects							
W331 Biennial Seagrass Mapping	26,022	47	0	26,069	22,771	3,298	0
W501 SWIM Plan Implementation - Charlotte Harbor	16,782	20,567	0	37,349	35,585	1,764	0
W506 CHEC Charlotte Harbor/Lemon Bay SWIM WS Eval	14,130	12,225	0	26,355	20,261	6,094	0
W507 CHEC Peace River Watershed Education	11,912	0	0	11,912	11,912	0	0
W511 Alligator Creek Restoration	107,108	495,714	0	602,822	581,109	21,713	0
W521 Charlotte Harbor Water Quality Monitoring	15,770	8,985	0	24,755	18,307	6,448	0
W526 Charlotte Harbor National Estuary Program	42,747	89,806	0	132,553	130,926	1,626	1
W527 Peace River Wtr Qlty Monitoring	28,643	0	0	28,643	22,445	6,198	0
W547 WQ Peace&Myakka Basins, Char Hbr&Lemon Bay	11,775	3,438	0	15,213	14,880	332	1
W551 Seagrass transect analysis in Charlotte Harbor	0	0	0	0	(32)	32	0
W553 Coral Creek Habitat Restoration	152,963	0	0	152,963	150,069	2,894	0
W554 Annual Rpt on WQ Cond & Pollutant Loads	4,491	0	0	4,491	4,344	147	0
W555 Eval Effects of Rstr of Esturine Fishes	33,613	0	0	33,613	33,160	453	0
W776 SWIM Plan Implementation - Winter Haven	5,152	0	0	5,152	5,098	54	0
W781 South Lake Conine Watershed Rstr Prj	36,933	0	0	36,933	36,726	207	0
W791 Lake Lulu Stormwater Treatment	0	32,700	0	32,700	32,700	0	0
W792 Lake Hartridge Stormwater Treatment	1,054	0	0	1,054	985	69	0
W794 Chain of Lakes Sediment Removal Feasibility Stdy	2,398	15,098	0	17,496	16,485	1,011	0
W795 Lake Howard Stormwater Retrofit Project	2,303	120,000	0	122,303	122,251	52	0
W796 Chain of Lakes Water Quality Management Plan	3,939	62,500	0	66,439	63,627	2,812	0
Total Surface Water Improvement & Management (SWIM) Projects	\$517,735	\$861,080	\$0	\$1,378,815	\$1,323,609	\$55,204	\$2
Basin Initiatives							
B046 Effective Rainfall on Ridge Citrus Groves	0	14,000	0	14,000	14,000	0	0
B047 Effects Of Micro Sprinkler Irrigation Coverage	0	43,000	0	43,000	43,000	0	0
B063 USGS Surface Wtr. Flow, Level, & W.Q. Data Coll	366,300	0	0	366,300	366,300	0	0
B084 Reduce Winter and Fall Citrus Irrigation	0	75,000	0	75,000	70,000	5,000	0
B099 Quality of Water Improvement Program	131,003	26,447	0	157,450	0	60,925	96,525
B113 Effect of Karst Dev. - Peace River Flow	31,028	0	0	31,028	28,750	1,096	1,182
B131 Hotel/Motel Water Conservation Program	27,701	2,374	0	30,075	2,384	14,889	12,802
B136 FL Auto Weather Network (FAWN) Data Diss & Edu	6,250	4,343	0	10,593	6,719	3,875	(1)
B151 Peace River CWM	4,232	0	0	4,232	0	2,903	1,329

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B153	Lake Wales Ridge CWM	4,232	0	0	4,232	0	2,215	2,017
B163	Prelevel Land Cover/Hydrologic Mapping of Peace	64,400	22,580	0	86,980	62,000	16,629	8,351
B171	Lk Wales Ridge - Public Lands Hydrologic/WQ Rest	2,912	54,670	0	57,582	13,744	46,206	(2,368)
B184	FL 2091 Hydrologic Charact of Charlie Ck Wtrshed	49,674	0	0	49,674	44,000	101	5,573
B190	Agriculture Irrigation Efficiency Initiative	0	24,508	0	24,508	22,767	1,741	0
B196	Ridge Lakes Stormwater Improvement - BMP Eval	5,359	111,847	0	117,206	83,223	33,761	222
B198	Upper Josephine/Jackson Creek WS Mgmt Plan	222,924	154,996	0	377,920	130,000	29,012	218,908
B199	Water Use During Prod of Select Tropical Foliage	0	29,618	0	29,618	29,618	0	0
B203	Cold/Chill Prot of Tropical Plants in Nursery	26,666	53,334	0	80,000	65,000	15,000	0
B206	Maintenance of Watershed Parameters & Models	60,548	84,726	0	145,274	144,126	962	186
B215	Peace Creek Canal Maintenance Assessment	4,693	0	0	4,693	0	263	4,430
B217	Ridge Lakes Stormwater Improv Implementation	270,539	110,000	0	380,539	147,042	4,857	228,640
B219	Land Use/Cover Mapping	33,786	0	0	33,786	20,368	17,367	(3,949)
B226	Wtr Budget & Irrig Req for Mature Blueberries	9,563	1	0	9,564	9,564	0	0
B229	Field Eval of Bhiadwarf for Wtr Use Effic	13,125	13,125	0	26,250	15,125	11,125	0
B237	Structure P5 Unscheduled Maintenance	0	13,472	0	13,472	8,579	6,032	(1,139)
B238	Crop Coefficients & Wtr Use for Peppers	3,649	0	0	3,649	3,649	0	0
B239	Deter Wtr Req For Genetically Alt Lantana Camara	9,350	0	0	9,350	4,493	4,857	0
B240	Redc Wtr Consmp in Poly- Mulched Tomato/Pepper	5,500	0	0	5,500	3,850	1,650	0
B241	Reduction of Wtr Use for Citrus Cold Prot	4,000	0	0	4,000	4,000	0	0
B242	Potential to Use ASR in Avon Park Formation	12,777	0	0	12,777	12,000	60	717
B243	Long-Term Wtr Budget Anly of Lk Starr	104,538	0	0	104,538	100,000	0	4,538
B244	USGS - Hydrogeology & Qlty of GW in Highlands	22,330	0	0	22,330	20,000	1,155	1,175
B246	FYN Regional Builder/Developer Specialist	15,252	0	0	15,252	11,400	2,030	1,822
B247	Effects of Dev on the Hydrologic Budget in SWUCA	62,470	0	0	62,470	33,110	0	29,360
B250	Highlands SWCD Mobile Irrigation Lab	0	14,960	0	14,960	14,960	0	0
B530	Mapping & GIS	37,397	1,159	0	38,556	3,476	17,559	17,521
B630	Field Operations	151,873	0	250,000	401,873	253,704	50,379	97,790
B670	Structure Operations	370,795	385,023	(250,000)	505,818	109,695	118,870	277,253
E016	Hurricane Jeanne-Lk Fannie Berm	0	15,922	0	15,922	14,892	1,030	0
G004	Aquatic Plant Management	17,329	0	0	17,329	0	1,430	15,899
P259	Youth Water Resources Education	205,353	138,111	0	343,464	142,496	22,865	178,103
P268	Public Education	168,411	39,606	0	208,017	62,752	101,562	43,703
Total Basin Initiatives		\$2,525,959	\$1,432,823	\$0	\$3,958,782	\$2,120,787	\$597,406	\$1,240,589

Southwest Florida Water Management District
 Peace River Basin
 Budget Progress Report
 Nine Months Ended June 30, 2007

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Projects	Adopted FY2007 Budget	Prior Year Encum- brances	Budget Transfers/ Amendment	Modified FY2007 Budget	Encum- bered To Date	Expended To Date	Remaining Balance
New Water Sources Initiative (NWSI) Projects							
F001	Unallocated NWSI Funding	\$0	\$20,746	\$0	\$20,746	\$20,746	\$0
F027	Natural Treatment of Storm and Waste Water	0	14,888	0	14,888	12,408	2,479
F032	Peace River Regional Reservoir Expansion	694,232	1,340,852	121,807	2,156,891	2,113,862	43,029
F033	Peace River Facility Expansion	1,256,598	2,479,913	0	3,736,511	3,736,511	0
F035	Polk County Regional Reuse	0	246,438	0	246,438	246,438	0
Total New Water Sources Initiative (NWSI) Projects		\$1,950,830	\$4,102,837	\$121,807	\$6,175,474	\$6,129,965	\$45,508
Water Supply & Resource Development							
H008	Lake Hancock Lake Level Modification	178,115	111,698	0	289,813	65,570	163,269
H009	Lake Hancock Outfall Structure P-11 Modif	0	625,000	0	625,000	625,000	0
H014	Lake Hancock Outfall Treatment System	35,718	14,386,537	0	14,422,255	13,948,751	450,225
H015	Irrigation Well Back-Plugging Program	39,901	244,553	0	284,454	0	15,751
H017	Facilitating Agricultural Rsrc Mgmt Sys (FARMS)	600,920	1,145,144	(615,354)	1,130,710	754,888	158,317
H024	Upper Peace River Resource Development	132,953	292,057	0	425,010	417,057	2,585
H025	Heartland Alliance Water Supply Plan	0	0	0	0	0	63
H027	Charlotte Co Regional Reclaimed Water Expansion	1,693	821,625	0	823,318	821,625	79
H028	Polk Co PCU SW Regional WWTF Ph 2 Expansion	0	270,938	0	270,938	270,938	0
H029	Polk Co PCU NW Regional WWTF Ph 1 Expansion	0	350,812	0	350,812	350,812	0
H034	Peace Creek Canal Watershed	654,516	558,302	0	1,212,818	576,411	238,238
H036	PR/MRWSA Regional Loop System Feasibility Prj	0	23,622	0	23,622	23,622	19
H045	Polk Co Facilitated Water Supply Planning	0	11,100	0	11,100	11,100	0
H048	Myakka Rvr Watershed Initiative	112,146	0	0	112,146	92,424	10,532
H050	PR/MRWSA - Reg Integ Loop Sys - Ph 1 Intct	366,085	0	0	366,085	0	910
H051	PR/MRWSA - Reg Integ Loop Sys - Ph 2 Intct	203,277	0	0	203,277	0	0
H052	PR/MRWSA - Reg Integ Loop Sys - Ph 3 Intct	183,803	0	0	183,803	0	40
H057	Water Supply Flow Monitoring Project	25,376	0	0	25,376	0	454
H060	Punta Gorda Shell Ck WTP Expans to 10 mgd	203,277	0	0	203,277	202,500	582
H062	CF Industries Aquifer Recharge & Recovery	0	0	218,985	218,985	0	700
H100	Water Supply & Resource Development Reserves	289,988	1,457,330	(218,985)	1,528,333	1,528,333	0
H502	FARMS - McCarlton Partners, LTD (Ref H017)	0	7,206	(7,206)	0	0	0
H512	FARMS - Williams Farms Partners Prj (Ref H017)	0	334,813	75,370	410,183	334,835	75,347
H513	FARMS - JDI Farms, Inc. (Ref H017)	0	409	(409)	0	0	0
H523	FARMS - The Mosaic Company (Ref H017)	0	22,165	(1,113)	21,052	1,114	21,051
H527	FARMS - DiMare, Ruskin, LLC (Ref H017)	0	117,235	0	117,235	117,235	0

**Southwest Florida Water Management District
Peace River Basin
Budget Progress Report
Nine Months Ended June 30, 2007**

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Projects		Adopted FY2007 Budget	Prior Year Encum- brances	Budget Transfers/ Amendment	Modified FY2007 Budget	Encum- bered To Date	Expended To Date	Remaining Balance
H529	Mini-FARMS Program	22,583	0	0	22,583	22,583	0	0
H530	FARMS - Island Grove LLC (Ref H017)	0	47,200	0	47,200	7,085	40,115	0
H534	FARMS - Diner Citrus/Cattle Co & OSS (Ref H017)	0	0	57,191	57,191	32,755	24,436	0
H535	FARMS - Turner Groves Hickory Grove (Ref H017)	0	0	201,588	201,588	201,588	0	0
H539	FARMS - Ben Hill Griffin, C&S Grove (Ref H017)	0	0	289,933	289,933	289,933	0	0
Total Water Supply & Resource Development		\$3,050,351	\$20,827,747	\$0	\$23,878,098	\$20,696,159	\$1,100,419	\$2,081,520
Cooperative Funding								
K075	Polk Co	2,246	36,494	0	38,740	36,494	460	1,786
K165	Highlands Co	8,244	20,783	0	29,027	18,483	1,897	8,647
K280	Charlotte Co	1,344	1,446,982	0	1,448,326	1,267,872	180,682	(228)
K300	Polk Co	1,878	1	0	1,879	1	94	1,784
K459	Charlotte Co SB	1,049	259,800	0	260,849	259,800	712	337
K725	Polk Co	37,426	0	0	37,426	37,426	0	0
K734	Lake Wales	1,106	48,642	0	49,748	48,642	1,465	(359)
K889	Arcadia	2,822	262,500	0	265,322	0	262,722	2,600
K892	Charlotte Co	2,422	0	0	2,422	0	0	2,422
L028	Englewood WD	2,344	130,850	0	133,194	130,850	220	2,124
L149	Dundee	0	10,000	0	10,000	10,000	108	(108)
L151	Sebring	125,749	8,890	0	134,639	97,660	35,165	1,814
L152	Avon Park	103,749	0	0	103,749	82,610	19,427	1,712
L153	Lake Placid	0	962,574	0	962,574	962,574	468	(468)
L159	Polk Co	1,606	50,000	0	51,606	50,000	1,133	473
L191	Haines City	0	0	0	0	0	2,981	(2,981)
L206	Char/Sara/Manatee	17,375	4,430	0	21,805	8,688	13,117	0
L215	Charlotte Co BCC	383,272	100,000	0	483,272	480,450	1,837	985
L238	Sarasota Co	3,300	0	0	3,300	2,347	953	0
L309	Sebring	8,502	30,000	0	38,502	35,592	993	1,917
L310	Avon Park	3,137	27,000	0	30,137	27,000	816	2,321
L314	Highlands Co	391,311	243,201	0	634,512	592,122	38,528	3,862
L316	Polk Co Utilities	0	93,125	0	93,125	93,125	835	(835)
L323	Lakeland	0	0	0	0	0	79	(79)
L324	Lakeland	341,462	62,500	0	403,962	399,225	2,269	2,468
L352	Frostproof/Polk Co	489,002	960,000	0	1,449,002	1,439,000	1,864	8,138
L353	Frostproof/Polk	500,183	0	0	500,183	500,000	516	(333)

**Southwest Florida Water Management District
Peace River Basin
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<u>Projects</u>	<u>Adopted FY2007 Budget</u>	<u>Prior Year Encum- brances</u>	<u>Budget Transfers/ Amendment</u>	<u>Modified FY2007 Budget</u>	<u>Encum- bered To Date</u>	<u>Expended To Date</u>	<u>Remaining Balance</u>
L473 Highlands Co Lake Placid Watershed Mgmt Master Plan (REDI)	4,102	100,000	0	104,102	100,000	7,550	(3,448)
L475 Polk Co Utilities NE Reg Reclaimed Storage Expansion	3,131	917,352	0	920,483	917,352	123	3,008
L479 Lakeland Lk Hollingsworth Westside Stormwater Treatment	3,148	189,216	0	192,364	189,216	109	3,039
L480 Lakeland Lake Morton Shoreline Restoration	3,148	1	0	3,149	0	155	2,994
L483 Winter Haven City of Winter Haven Reuse Master Plan	2,822	50,000	0	52,822	50,000	86	2,736
L485 Charlotte Co Charlotte Co Golf Course Reuse Storage	2,822	414,071	0	416,893	414,071	476	2,346
L486 Charlotte Co Charlotte Harbor Redevelopment Area	254,833	233,696	0	488,529	431,838	56,533	158
L488 Charlotte Co Lemon Bay Watershed Education Signage	0	15,000	0	15,000	15,000	0	0
L491 DeSoto Co DCI Reuse Feasibility (REDI)	2,822	37,500	0	40,322	6,675	30,902	2,745
L520 Around the Bend Enviro Edu & Outreach for Conservation Lands	0	17,300	0	17,300	16,400	900	0
L553 Dundee Reclaimed Water Use System Project (REDI)	3,131	204,000	0	207,131	204,000	514	2,617
L633 DeSoto Co Watershed Management Plan (REDI)	529,363	0	0	529,363	0	2,049	527,314
L636 Charlotte Co City of Punta Gorda Interconnect	1,000,000	0	0	1,000,000	0	3,514	996,486
L640 Punta Gorda Punta Gorda Airport Reuse	127,822	0	0	127,822	125,000	132	2,690
L649 FDEP Hydrologic Rstr of Highlands Hammock SP	28,160	0	0	28,160	25,000	365	2,795
L671 Polk Co Eval Aquifer Recharge to Relieve Flooding	129,755	0	0	129,755	124,997	4,342	416
L672 Polk Co Polk Co Watershed Evaluation	338,569	0	0	338,569	126,668	174,833	37,068
L673 Polk Co Impl of BMPs - Lk Belle & Tractor Lk Watershed	311,924	0	0	311,924	265,000	114	46,810
L674 Polk Co Implementation of BMPs - Saddlebag Lake Watershe	529,677	0	0	529,677	525,000	88	4,589
L679 Hardee Co Hardee Co Watershed Mgmt Plan (REDI)	104,363	0	0	104,363	100,000	1,416	2,947
L680 Polk Co Bartow Watershed Mgmt Plan	165,800	0	0	165,800	160,000	960	4,840
L693 Child's Museum Edu Exhibits in New Children's Museum of Tampa	6,167	0	0	6,167	6,167	0	0
L770 Lakeland Lk Gibson Southwest Drain Sub-Basin SW Mgmt	78,160	0	0	78,160	75,000	427	2,733
P727 Lake Wales Lake Wales Reuse Project	0	1,073,918	0	1,073,918	1,073,918	951	(951)
P729 Polk Co Itchepackesassa Ck Flood Protect/SW Mgmt	0	676,151	0	676,151	676,151	0	0
P730 Polk Co Peace Creek Canal/Wahneta Drainage System	2,246	112,945	0	115,191	112,945	50	2,196
Total Cooperative Funding	\$6,061,494	\$8,798,923	\$0	\$14,860,417	\$12,320,360	\$855,930	\$1,684,127
Total Peace River Basin	\$15,976,982	\$37,139,000	\$121,807	\$53,237,789	\$43,739,002	\$3,320,556	\$6,178,231

Southwest Florida Water Management District
 Peace River Basin
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Rank	Projects	Adopted Budget FY2007	June Proposed Budget FY2008	August Proposed Budget FY2008	Funded by Outside Revenue	Funded by Ad Valorem Based Budget	Millage Rate Requirements	Increase/ (Decrease) From FY2007
On-Going Activities								
	Z010	Board and Executive Services	\$28,533	\$25,385	\$25,385	\$25,385	BF/Interest	(\$3,148)
	Z030	Planning	5,910	5,993	5,993	5,993	BF/Interest	83
	Z050	Information Resources	11,621	12,087	12,087	12,087	BF/Interest	466
	Z060	Communications	37,225	32,415	32,415	32,415	BF/Interest	(4,810)
	Z074	Risk Management	13,400	23,000	23,000	23,000	BF/Interest	9,600
	Z090	Community Affairs	63,129	61,178	61,178	61,178	BF/Interest	(1,951)
	Z300	Resource Conservation and Data	0	54,106	54,106	54,106	BF/Interest	54,106
	Z500	Resource Management	99,810	75,714	75,714	75,714	BF/Interest	(24,096)
	Z550	Resource Conservation and Development	33,022	31,436	31,436	31,436	BF/Interest	(1,586)
	Z600	Operations	8,641	7,545	7,545	7,545	BF/Interest	(1,096)
	Z700	Land Resources	19,974	13,770	13,770	13,770	BF/Interest	(6,204)
	Total On-Going Activities		\$321,265	\$342,629	\$342,629	\$0		\$21,364
Property Appraiser & Tax Collector Commissions								
	Z910	Pr. App. & Tax Coll. Commissions	\$438,832	\$473,939	\$438,832	\$438,832	BF/Interest	\$0
	Total Property Appraiser & Tax Collector Commissions		\$438,832	\$473,939	\$438,832	\$0		\$0
Reserves								
	Z930	Contingencies	\$500,000	\$500,000	\$500,000	\$500,000	BF/Interest	\$0
	Total Reserves		\$500,000	\$500,000	\$500,000	\$0		\$0
Save Our Rivers (SOR) Reimbursable Projects								
	S001	Jack Creek	\$72,994	\$72,064	\$72,064	\$72,064	\$0	(\$930)
	S017	Prairie/Shell Creek	60,649	81,055	81,055	81,055	0	20,406
	S029	Upper Lake Marion Creek Watershed	20,880	17,454	17,454	17,454	0	(3,426)
	S030	RV Griffin Reserve	129,402	106,860	106,860	106,860	0	(22,542)
	S036	Charlotte Harbor State Buffer Preserve	4,966	3,093	3,093	3,093	0	(1,873)
	S040	Lower Peace River (Deep Creek)	197,193	135,011	135,011	135,011	0	(62,182)
	S051	Bright Hour Watershed	1,328	2,540	2,540	2,540	0	1,212
	S054	Lake Hancock	54,401	288,537	288,537	288,537	0	234,136
	S099	Save Our Rivers Administration	20,024	15,417	15,417	15,417	0	(4,607)
	SA01	Jack Creek Hydrologic & Wetlands Restoration	3,035	336,058	336,058	336,058	0	333,023
	SA54	Lake Hancock Environmental Education Center	2,822	1,352	1,352	1,352	0	(1,470)
	SB40	Deep Creek Recreational Improvements	2,822	0	0	0	0	(2,822)
	SB54	Polk County Watershed Exhibit	40,000	0	0	0	0	(40,000)
	Total Save Our Rivers (SOR) Reimbursable Projects		\$610,516	\$1,059,441	\$1,059,441	\$1,059,441	\$0	\$448,925
Surface Water Improvement & Management (SWIM) Projects								
	W032	HCC Foundation Field Trip Program	\$0	\$539	\$539	\$539	BF/Interest	\$539
	W331	Biennial Seagrass Mapping	26,022	27,331	27,331	27,331	BF/Interest	1,309
	W436	Elizabeth Place WQ & Natural Sys Enhancement	0	127,134	127,134	127,134	BF/Interest	127,134
	W501	SWIM Plan Implementation - Charlotte Harbor	16,782	3,151	3,151	3,151	BF/Interest	(13,631)
	W506	Charlotte Harbor/Lemon Bay Watershed SWIM Edu	14,130	16,399	16,399	16,399	BF/Interest	2,269
	W507	CHEC Peace River Watershed Education	11,912	11,037	11,037	11,037	BF/Interest	(875)

Southwest Florida Water Management District
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Projects	Rank	Adopted Budget FY2007	June Proposed Budget FY2008	August Proposed Budget FY2008	Funded by Outside Revenue	Funded by Ad Valorem Based Budget	Millage Rate Requirements	Increase/ (Decrease) From FY2007
W511		Alligator Creek Restoration	107,108	105,431	105,431	105,431	BF/Interest	(1,677)
W521		Charlotte Harbor Water Quality Monitoring	15,770	17,820	17,820	17,820	BF/Interest	2,050
W526		Charlotte Harbor National Estuary Program	42,747	44,968	44,968	44,968	BF/Interest	2,221
W527		Peace River Wtr Qlty Monitoring	28,643	28,458	28,458	28,458	BF/Interest	(185)
W547		Wtr Qlty Peace & Myakka Basins & Charlotte Hbr	11,775	12,766	12,766	12,766	BF/Interest	991
W553		Coral Creek Habitat Restoration	152,963	105,576	105,576	105,576	BF/Interest	(47,387)
W554		Annual Report on Water Quality Cond & Pollutant Loads	4,491	995	995	995	BF/Interest	(3,496)
W555		Eval Effects of Rstr on Estuarine Fishes	33,613	135	135	135	BF/Interest	(33,478)
W556		FDOT - Cape Haze Pioneer Trail Hydrologic Rstr	0	17,602	17,602	17,602	BF/Interest	17,602
W557		Characterizing Seagrass Communities-Eastern Charlotte Hbr	0	10,732	10,732	10,732	BF/Interest	10,732
W776		SWIM Plan Implementation - Winter Haven	5,152	5,210	5,210	5,210	BF/Interest	58
W781		South Lake Conine Watershed Rstr Prj	36,933	136,728	136,728	136,728	BF/Interest	99,795
W792		Lake Hartridge Stormwater Treatment	1,054	0	0	0	BF/Interest	(1,054)
W794		Winter Haven Chain of Lks Sediment Removal Feasibility Stdy	2,398	2,481	2,481	2,481	BF/Interest	83
W795		Winter Haven Lk Howard Stormwater Retrofit Project	2,303	1,572	1,572	1,572	BF/Interest	(731)
W796		Chain of Lakes Water Quality Management Plan	3,939	7,001	7,001	7,001	BF/Interest	3,062
Total Surface Water Improvement & Management(SWIM) Projects			\$517,735	\$683,066	\$683,066	\$0	\$683,066	\$165,331
Basin Initiatives								
B063		USGS Surface Wtr. Flow, Level, & W.Q. Data Coll	\$366,300	\$425,600	\$425,600	\$425,600	BF/Interest	\$59,300
B099		Quality of Water Improvement Program	131,003	159,100	159,100	159,100	BF/Interest	28,097
B113		Effect of Karst Dev. - Peace River Flow	31,028	13,694	13,694	13,694	BF/Interest	(17,334)
B131		Hotel/Motel Water Conservation Program	27,701	16,849	16,849	16,849	BF/Interest	(10,852)
B136		FL Auto Weather Network (FAWN) Data Diss & Edu	6,250	6,250	6,250	6,250	BF/Interest	0
B151		Peace River CWM	4,232	4,292	4,292	4,292	BF/Interest	60
B153		Lake Wales Ridge CWM	4,232	4,292	4,292	4,292	BF/Interest	60
B163		Peace River - Historical Land Cover Mapping	64,400	6,285	6,285	6,285	BF/Interest	(58,115)
B171		Lake Wales Ridge Public Lands Evaluation	2,912	0	0	0	BF/Interest	(2,912)
B184		FL-2091 Hydrologic Charact of Charlie Ck Wtrshd	49,674	2,379	2,379	2,379	BF/Interest	(47,295)
B196		Ridge Lakes Stormwater Improvement - BMP Eval	5,359	1,120	1,120	1,120	BF/Interest	(4,239)
B198		Highlands WMPlan Upper Josephine/Jackson	222,924	15,112	15,112	15,112	BF/Interest	(207,812)
B203		Cold/Chill Prot of Tropical Plants in Nursery	26,666	0	0	0	BF/Interest	(26,666)
B206		Maintenance of Watershed Parameters & Models	60,548	143,765	143,765	\$12,400	BF/Interest	83,217
B215		Peace Creek Canal Maintenance Assessment	4,693	0	0	0	BF/Interest	(4,693)
B217		Ridge Lakes Stormwater Improv Enhancement	270,539	75,548	75,548	75,548	BF/Interest	(194,991)
B219		Land Use/Cover Mapping	33,786	46,914	46,914	46,914	BF/Interest	13,128
B226		Wtr Budget & Irrig Req for Mature Blueberries	9,563	9,563	9,563	9,563	BF/Interest	0
B229		Field Eval of Bahiadwarf for Wtr Use Effic	13,125	13,125	13,125	13,125	BF/Interest	0
B238		Crop Coefficients & Wtr Use for Peppers	3,649	3,649	3,649	3,649	BF/Interest	0
B239		Deter Wtr Req For Genetically Alt Lantana Camara	9,350	9,350	9,350	9,350	BF/Interest	0
B240		Redc Wtr Consmp in Poly-Mulched Tomato/Pepper	5,500	5,500	5,500	5,500	BF/Interest	0
B241		Reduction of Wtr Use for Citrus Cold Prot	4,000	4,000	4,000	4,000	BF/Interest	0
B242		Potential to Use ASR in Avon Park Formation	12,777	13,302	13,302	13,302	BF/Interest	525
B243		Long-Term Wtr Budget Analy of Lk Starr	104,538	105,948	105,948	105,948	BF/Interest	1,410
B244		USGS - Hydrogeology & Qlty of GW in Highlands Co	22,330	24,533	24,533	24,533	BF/Interest	2,203
B246		FYN Regional Builder/Developer Specialist	15,252	15,786	15,786	15,786	BF/Interest	534
B247		Effects of Dev on the Hydrologic Budget in SWUCA	62,470	62,579	62,579	62,579	BF/Interest	109

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Projects	Rank	Adopted Budget FY2007	June Proposed Budget FY2008	August Proposed Budget FY2008	Funded by Outside Revenue	Funded by Ad Valorem Based Budget	Millage Rate Requirements	Increase/ (Decrease) From FY2007
B251		0	9,090	9,090		9,090	BF/Interest	9,090
B256		0	38,500	38,500		38,500	BF/Interest	38,500
B257		0	7,000	7,000		7,000	BF/Interest	7,000
B260		0	60,250	60,250		60,250	BF/Interest	60,250
B530		37,397	44,753	44,753		44,753	BF/Interest	7,356
B630		151,873	335,029	335,029		335,029	BF/Interest	183,156
B670		370,795	392,181	392,181		392,181	BF/Interest	21,386
G004		17,329	17,531	17,531		17,531	BF/Interest	202
P259		205,353	209,556	209,556		209,556	BF/Interest	4,203
P268		168,411	181,005	181,635		181,635	BF/Interest	13,224
Total Basin Initiatives		\$2,525,959	\$2,483,430	\$2,484,060	\$12,400	\$2,471,660		(\$41,899)
New Water Sources Initiative (NWSI) Projects								
F032		\$694,232	\$920,897	\$965,104	\$334,928	\$630,176	BF/Interest	\$270,872
F033		1,256,598	507,154	507,154	507,154	0	BF/Interest	(749,444)
Total New Water Sources Initiative (NWSI) Projects		\$1,950,830	\$1,428,051	\$1,472,258	\$842,082	\$630,176		(\$478,572)
Water Supply & Resource Development								
H008		\$178,115	\$713,501	\$713,501	\$187,500	\$526,001	0.0086	\$535,386
H014		35,718	665,786	665,786	312,500	353,286	0.0156	630,068
H015		39,901	28,549	28,549		28,549	0.0162	(11,352)
H017		600,920	332,218	332,218		332,218	0.0227	(268,702)
H024		132,953	64,135	64,135		64,135	0.0240	(68,818)
H027		1,693	656,273	656,273	218,176	438,097	0.0326	654,580
H034		654,516	447,600	447,600		447,600	0.0414	(206,916)
H044		0	2,719	2,719		2,719	0.0415	2,719
H048		112,146	103,822	103,822	25,000	78,822	0.0430	(8,324)
H050		366,085	494,940	0	0	0	0.0430	(366,085)
H051		203,277	339,578	339,501		339,501	0.0497	136,224
H052		183,803	339,535	339,501		339,501	0.0564	155,698
H057		25,376	0	0		0	0.0564	(25,376)
H060		203,277	4,533	4,533		4,533	0.0565	(198,744)
H062		0	146,381	146,381	48,454	97,927	0.0584	146,381
H063		0	151,510	151,510	6,750	144,760	0.0612	151,510
H069		0	0	1,002,189		1,002,189	0.0810	1,002,189
H100		289,988	0	624,109		624,109	0.0933	334,121
H529		22,583	0	0		0	0.0933	(22,583)
Total Water Supply & Resource Development		\$3,050,351	\$4,491,080	\$5,622,327	\$798,380	\$4,823,947		\$2,571,976
Cooperative Funding								
K075	Polk Co	\$2,246	\$2,379	\$2,379		\$2,379	0.0933	\$133
K165	Highlands Co	8,244	3,199	3,199		3,199	0.0934	(5,045)
K300	Polk Co	1,878	654	654		654	0.0934	(1,224)
K459	Charlotte Co SB	1,049	1,943	1,943		1,943	0.0934	894
K734	Lake Wales	1,106	0	0		0	0.0934	(1,106)
K889	Arcadia	2,822	0	0		0	0.0934	(2,822)

Southwest Florida Water Management District
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Projects	Rank	Adopted Budget FY2007	June Proposed Budget FY2008	August Proposed Budget FY2008	Funded by Outside Revenue	Funded by Ad Valorem Based Budget	Millage Rate Requirements	Increase/ (Decrease) From FY2007		
K892		Charlotte Co	Victoria Estates Reuse	2,422	0	0	0	0.0934	(2,422)	
L028		Englewood WD	Lemon Bay High School Reuse Extension	2,344	1,753	1,753	1,753	0.0935	(591)	
L153		Lake Placid	Lake Placid Reuse (REDI)	0	1,166	1,166	1,166	0.0935	1,166	
L159		Polk Co	PCU Toilet Rebate Program	1,606	0	0	0	0.0935	(1,606)	
L238		S&E Council	SEC Southern Coastal Watershed Education	3,300	13,931	0	0	0.0935	(3,300)	
L309		Sebring	City of Sebring Stormwater Utility Study (REDI)	8,502	1,220	1,220	1,220	0.0935	(7,282)	
L310		Avon Park	Avon Park Stormwater Utility Study (REDI)	3,137	1,328	1,328	1,328	0.0935	(1,809)	
L314		Highlands Co	WMPlan Carter Creek (REDI)	391,311	6,577	10,694	10,694	0.0938	(380,617)	
L352		Frostproof/Polk Co	BMPs Lake Clinch Outfall Replacement	489,002	3,262	3,262	3,262	0.0938	(485,740)	
L353		Frostproof/Polk Co	WMPlan Lakes Crooked, Clinch, and Reedy	500,183	1,029	1,029	1,029	0.0938	(499,154)	
L475		Polk Co	Utilities NE Reg Rclm Storage Expansion	3,131	3,268	3,268	3,268	0.0939	137	
L479		Lakeland	Lk Hollingsworth Westside SW Treatment	3,148	2,057	2,057	2,057	0.0939	(1,091)	
L480		Lakeland	Lake Morton Shoreline Restoration	3,148	0	0	0	0.0939	(3,148)	
L483		Winter Haven	Reuse Master Plan	2,822	0	0	0	0.0939	(2,822)	
L485		Charlotte Co	Charlotte Co Golf Course Reuse Storage	2,822	2,913	2,913	2,913	0.0940	91	
L486		Charlotte Co	WMPlan Charlotte Harbor	254,833	5,022	5,022	5,022	0.0941	(249,811)	
L491		DeSoto Co	DCI Reuse Feasibility (REDI)	2,822	0	0	0	0.0941	(2,822)	
L640		Punta Gorda	Punta Gorda Reuse Feasibility Study	127,822	1,166	1,166	1,166	0.0942	(126,656)	
L671		Polk Co	Eval Aquifer Recharge to Relieve Flooding	129,755	130,101	5,101	5,101	0.0942	(124,654)	
L672		Polk Co	WMPlan Polk County	338,569	1,364	1,364	1,364	0.0942	(337,205)	
P727		Lake Wales	Lake Wales Reuse Project	0	3,268	3,268	3,268	0.0943	3,268	
P730		Polk Co	WMPlan/Imp BMPs Peace Ck Canal/Wahneta Drainage	2,246	2,379	2,379	2,379	0.0944	133	
L151	1A	Sebring	WMPlan Sebring (REDI)	125,749	30,008	30,008	\$6,250	23,758	0.0948	(95,741)
L473	1A	Highlands Co	WMPlan Lake Placid (REDI)	4,102	356,342	356,342	87,500	268,842	0.1001	352,240
L553	1A	Dundee	Reclaimed Water Use System (REDI)	3,131	558,090	558,090	136,867	421,223	0.1084	554,959
L633	1A	DeSoto Co	WMPlan Peace River (REDI)	529,363	228,103	228,103	56,250	171,853	0.1118	(301,260)
L636	1A	Charlotte Co	City of Punta Gorda Emergency Interconnect (cancelled)	1,000,000	1,512,192	0	0	0	0.1118	(1,000,000)
L673	1A	Polk Co	Imp. BMPs Lake Belle and Tractor Lake	311,924	189,930	189,930	0	189,930	0.1155	(121,994)
L674	1A	Polk Co	Imp. BMPs Saddlebag Lake	529,677	529,930	529,930	0	529,930	0.1260	253
L679	1A	Hardee Co	WMPlan Horse Creek (REDI)	104,363	103,103	103,103	25,000	78,103	0.1275	(1,260)
L680	1A	Polk Co	WMPlan Bartow	165,800	166,120	166,120	80,000	86,120	0.1292	320
K725	H	Polk Co	FYN Polk County	37,426	40,069	40,069	0	40,069	0.1300	2,643
L152	H	Avon Park	WMPlan Avon Park (REDI)	103,749	105,008	105,008	25,000	80,008	0.1316	1,259
L206	H	Char/Sara/Manatee	FYN Charlotte, Manatee, Sarasota Counties	17,375	20,492	20,492	0	20,492	0.1320	3,117
L215	H	Charlotte Co BCC	Rotunda ASR Well Conversion for Reuse Water	383,272	244,710	244,710	80,000	164,710	0.1352	(138,562)
L324	H	Lakeland	Lk Parker Stormwater BMP Imp	341,462	476,262	476,262	0	476,262	0.1446	134,800
L649	H	FDEP	Hydrologic Rstr of Highlands Hammock SP	28,160	28,289	28,289	12,500	15,789	0.1449	129
L693	H	Child's Museum	Edu Exhibits in New Children's Museum of Tampa	6,167	21,288	21,288	0	21,288	0.1453	15,121
L770	H	Lakeland	Lk Gibson Stormwater Mgmt System Retrofit	78,160	565,789	565,789	0	565,789	0.1565	487,629
L856	H	Charlotte Co	Charlotte Co Toilet Rebate Program	0	52,124	52,124	0	52,124	0.1575	52,124
L897	H	Highlands Co	Lake Clay Stormwater Retrofit (REDI)	0	256,567	256,567	156,250	100,317	0.1595	256,567
L900	H	Polk Co	LE/AD Polk County Watershed Education	0	14,909	14,909	0	14,909	0.1598	14,909
L903	H	Avon Park	Impl BMPs Avon Park Executive Airport	0	163,200	163,200	0	163,200	0.1630	163,200
L912	H	Dundee	Lower Floridan Aquif Reuse Sppl Well Feas (REDI)	0	62,948	62,948	0	62,948	0.1642	62,948
L914	H	Lakeland	Plumbing Retrofit Project	0	302,061	211,061	0	211,061	0.1684	211,061
L915	H	Lakeland	Pre-Rinse Spray Valve Retrofit	0	16,761	16,761	0	16,761	0.1687	16,761

Southwest Florida Water Management District
 Peace River Basin
 Budget Comparison Report
 July 16, 2007

Projects	Rank	Adopted Budget FY2007	June Proposed Budget FY2008	August Proposed Budget FY2008	Funded by Outside Revenue	Funded by Ad Valorem Based Budget	Millage Rate Requirements	Increase/ (Decrease) From FY2007
L917 Polk Co Lake Bathymetric Mapping	H	0	10,198	10,198		10,198	0.1689	10,198
L918 Polk Co Lake Gwyn Surface Wtr Rstr & Flood Protection	H	0	82,984	82,984	37,500	45,484	0.1698	82,984
K280 Charlotte Co Imp. BMPs Greater Port Charlotte	M	1,344	1,422,335	502,335		502,335	0.1797	500,991
L902 Lake Wales Imp. BMPs Twin Lakes	M	0	152,126	152,126		152,126	0.1827	152,126
Total Cooperative Funding		\$6,061,494	\$7,901,917	\$5,243,911	\$703,117	\$4,540,794		(\$817,583)
Total Appropriation Peace River Basin		\$15,976,982	\$19,363,553	\$17,846,524	\$3,415,420	\$14,431,104		\$1,869,542
Anticipated Revenues and Balances								
Ad Valorem Taxes		\$9,238,559	\$9,977,644	\$9,276,980		\$9,276,980		\$38,421
Balance from Prior Years		1,407,933	1,500,000	3,854,124		3,854,124		2,446,191
Avon Park - WMPlan Avon Park (L152)		24,500	25,000	25,000	\$25,000	0		500
Charlotte Co - WMPlan Charlotte Harbor (L486)		125,000	0	0	0	0		(125,000)
DeSoto Co - WMPlan Peace River (L633)		131,250	56,250	56,250	56,250	0		(75,000)
Frostproof/Polk Co - WMPlan Lakes Crooked, Clinch, and Reedy (L353)		250,000	0	0	0	0		(250,000)
Hardee Co -WMPlan Horse Creek (L679)		25,000	25,000	25,000	25,000	0		0
Highlands Co - WMPlan Carter Creek (L314)		96,250	0	0	0	0		(96,250)
Highlands Co - Lake Clay SW Retrofit (L897)		0	31,250	31,250	31,250	0		31,250
Highlands Co - WMPlan Lake Placid (L473)		0	87,500	87,500	87,500	0		87,500
Lake Placid - Lake Clay SW Retrofit (L897)		0	31,250	31,250	31,250	0		31,250
Polk Co - WMPlan Bartow (L680)		80,000	80,000	80,000	80,000	0		0
Polk Co - Maintenance of WS Parameters & Models (B206)		12,200	12,400	12,400	12,400	0		200
Polk Co - WMPlan Polk County (L672)		168,070	0	0	0	0		(168,070)
Sebring - WMPlan Sebring (L151)		30,000	6,250	6,250	6,250	0		(23,750)
DOT - Ridge Lakes SW Improvements (B217)		126,500	0	0	0	0		(126,500)
Ecosystem Trust - Central W Coast SW Enhanc (H063)		0	6,750	6,750	6,750	0		6,750
Ecosystem Trust - Charlotte Hbr/Upper Peace (H014)		0	150,000	150,000	150,000	0		150,000
Ecosystem Trust - Peace Creek Canal Watershed (H034)		225,000	0	0	0	0		(225,000)
Ecosystem Trust - FARMS (H017)		400,000	0	0	0	0		(400,000)
Ecosystem Trust - Lk Hancock Lk Level Mod (H008)		75,000	187,500	187,500	187,500	0		112,500
Ecosystem Trust - Myakka Rvr Watershed Initiative (H048)		42,500	25,000	25,000	25,000	0		(17,500)
Ecosystem Trust - Upper Peace River Resource Dev (H024)		62,500	0	0	0	0		(62,500)
SOR Save Our Rivers		610,516	1,059,441	1,059,441	1,059,441	0		448,925
Water Protection & Sustainability Trust Fund (Surface Wtr Rstr)		168,250	142,500	143,750	143,750	0		(24,500)
Water Protection & Sustainability Trust Fund (Alternative Water)		1,827,954	1,325,579	1,325,579	1,325,579	0		(502,375)
Water Protection & Sustainability Trust Fund FY2006 Rebudget (H014)		0	162,500	162,500	162,500	0		162,500
Interest on Investments		850,000	1,650,000	1,300,000	0	1,300,000		450,000
Sub Total Revenue Before Additional Taxes		\$15,976,982	\$16,541,814	\$17,846,524	\$3,415,420	\$14,431,104		\$1,869,542
Additional Ad Valorem Required to Fund All		0	2,821,739	0	0	0		0
Total Revenues		\$15,976,982	\$19,363,553	\$17,846,524	\$3,415,420	\$14,431,104		\$1,869,542
Millage Rate		.195	.195	0.1827		0.1827		
Income Per 100th Mill		\$473,772	\$511,674	\$507,771		\$507,771		

Southwest Florida Water Management District
 Peace River Basin
 Budget Comparison Report
 July 16, 2007

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Projects				Adopted	June	August	Funded by	Funded by	Millage	Increase/
				Budget	Proposed	Proposed	Outside	Ad Valorem	Rate	(Decrease)
Rank				FY2007	Budget	Budget	Revenue	Based	Requirements	From
					FY2008	FY2008		Budget		FY2007
Unfunded Projects										
L671	Polk Co	Eval Aquifer Recharge to Relieve Flooding	L	129,755	130,101	130,101		130,101		346
L871	Polk Co	Imp. BMPs Lakes Crooked, Clinch, and Reedy	L	0	500,183	500,183		500,183		500,183
L905	SNL of Sebring	Sun 'N Lake GIS Improvements (REDI)	L	0	34,162	34,162		34,162		34,162
L906	SNL of Sebring	WMPlan Sun 'n Lake Improvement District (REDI)	L	0	100,183	100,183	25,000	75,183		100,183
L907	Mulberry	City of Mulberry Reclaimed Water Project	L	0	250,000	250,000		250,000		250,000
L909	Lake Alfred	Lk Alfred Vehicle Wastewater Treatment	L	0	50,800	50,800		50,800		50,800
L911	Central FL RPC	Peace River Watershed Land Use Study	L	0	20,000	20,000		20,000		20,000
L913	Dundee	Reclaimed Water System Expansion (REDI)	L	0	1,601,527	1,601,527		1,601,527		1,601,527
L920	Polk Co	ET Controller Pilot Project	L	0	10,500	10,500		10,500		10,500
L922	Winter Haven	Rclm Water WWTP 2 & 3 Interconnection	L	0	702,777	702,777		702,777		702,777
L901	Polk City	Reclaimed Water Restoration Project	N/R	0	181,325	181,325		181,325		181,325
L904	SNL of Sebring	Sun N Lake Reuse Feasibility Project (REDI)	N/R	0	63,750	63,750		63,750		63,750
L238	S&E Council	SEC Southern Coastal Watershed Education	With	3,300	13,931	0		0		(3,300)
L898	Highlands Co	WMPlan Lower Jack Creek (REDI)	With	0	455,998	0	112,667	0		0
L899	Highlands Co	WMPlan Grassy Creek (REDI)	With	0	310,331	0	76,250	0		0

**PEACE RIVER BASIN OF THE
SOUTHWEST FLORIDA WATER MANAGEMENT
DISTRICT**

RESOLUTION NO. 99 RESOLUTION

**AFFIRMING THE REQUIRED
FISCAL YEAR 2008 FINAL MILLAGE RATE AND BUDGET
FOR GOVERNING BOARD APPROVAL**

**WHEREAS, the Legislature enacted ad valorem tax reform at a
Special Session called for that purpose and adjourned on June 14, 2007; and**

WHEREAS, the tax reform legislation "An Act Relating to Ad Valorem Taxation," House Bill 1B (HB 1B), was signed into law on June 21, 2007, and established for independent special districts, including water management districts, a maximum millage rate for fiscal year 2008 equal to 97 percent of the rolled-back rate; and

WHEREAS, the Florida Department of Revenue has determined that the District and Basins must certify compliance with HB 1B when the proposed millage rates are certified to the county Property Appraisers by August 4, 2007; and

WHEREAS, the Peace River Basin Board held a special July budget meeting, after the Certifications of Taxable Value had been received, to adopt a final millage rate for fiscal year 2008, equal to 97 percent of the rolled-back rate in compliance with HB 1B.

BE IT RESOLVED, that the Peace River Basin's required final millage rate of **0.1827 mill, which was approved and adopted at the board meeting on July 27, 2007, is hereby ratified, affirmed and approved.**

BE IT FURTHER RESOLVED, that the final fiscal year 2008 budget of the Peace River Basin, attached hereto and made a part hereof as Exhibit "A," which was approved and adopted at the board meeting on July 27, 2007, is hereby ratified, affirmed and approved.

BE IT FURTHER RESOLVED, that the Governing Board is hereby requested to levy ad valorem taxes within the Peace River Basin based on a final millage rate of 0.1827 mill as approved and adopted by the Peace River Basin Board on July 27, 2007.

BE IT FURTHER RESOLVED, that the Governing Board is hereby requested to adopt as part of the District's final combined budget the Peace River Basin's final fiscal year 2008 budget as approved and adopted by the Peace River Basin Board on July 27, 2007.

APPROVED AND ADOPTED on this 27th day of July, 2007.

Chair Ex Officio

Attest:

Secretary

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Boards & Executive Services - Peace River Basin

Project Type	On-Going Activities
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	N/A
Project Manager	KAVOURAS, LOU
Task Manager(s)	
Status	Ongoing

Description

The Boards and Executive Services Department provides administrative support to the Basin Board. These support activities include noticing, scheduling and preparing the agenda and minutes for regular and special meetings and workshops. Other functions include preparing meeting and travel arrangements and correspondence for Board members. The Deputy Executive Director for Outreach, Planning and Board Services is the primary staff liaison for members. The Deputy also assists with the conduct of meetings, works with the Governor's staff to ensure the legal constitution of Boards, coordinates with appropriate staff to ensure follow up on meeting issues, conducts new member orientation and ensures compliance with the Sunshine Laws. In addition, the Deputy and staff coordinate Board field trips, including planning, scheduling, meals, logistics and arranging for staff support. This budget item also provides funds for equipment and facility rental, legal advertisements for meeting notices, miscellaneous office supplies and printing and Board member travel reimbursements (e.g., meals, conference registration, mileage, etc.).

Status As Of: March 13, 2007

As of this date, this project will not show an update. Ongoing project details are shown in the project description.

Planning - Peace River Basin

Project Type	On-Going Activities
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	
Project Manager	SPRINGSTEAD, CHAN
Task Manager(s)	
Status	Ongoing

Description

Planning is an Executive support function responsible for long-range comprehensive planning and near-term strategic planning. Department staff administer the Comprehensive Watershed Management initiative; provide Basin Board support; and assist the Basin Board with development of resource management priorities. Planning Department staff support the Basin Board through the following tasks. Project Management Database project worksheets that are used in the Budget Notebook for each Basin Board meeting are reviewed to ensure accuracy and completeness. Planning staff work with project managers to identify any significant issues and resolve any discrepancies. Staff take the lead in preparing for joint Governing and Basin Board Planning Workshops and for the Basin Board's Annual Planning Workshop. Basin Board meetings are attended and presentations are made to the Board on an as-needed basis. Staff often coordinate responses to issues raised during meetings. Staff respond to Board Member questions and requests via oral and written communications. Staff assist Basin Board members by creating and providing presentations on Basin-specific issues. At the Board's request, research is conducted and special issues are presented during Board meetings. Department staff assist the Community Affairs Coordinators with Cooperative Funding kick-off meetings held for local governments and other potential cooperators. Assistance is provided for new Board member orientations.

Status As Of: March 13, 2007

As of this date, this project will not show an update. Ongoing project details are shown in the project description.

Information Resources - Peace River Basin

Project Type On-Going Activities
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)
Project Manager LEWIS, JIM
Task Manager(s)
Status Ongoing

Description

Video production and conferencing staff provides audio-visual, archive tape, and video teleconferencing support for Basin Board and Governing Board meetings, including staff presentations. Audio-visual staff provides support for annual Basin Board planning workshops, and the semiannual Governing Board/Basin Board planning workshops, as well as other non-regularly scheduled workshops not held in a District office, as needed. Based on the time devoted to these activities, including travel, the appropriate salary percentage is allocated to each Basin Board.

Status As Of: March 13, 2007

As of this date, this project will not show an update. Ongoing project details are shown in the project description.

Communications - Peace River Basin

Project Type	On-Going Activities
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	N/A
Project Manager	MOLLIGAN, MICHAEL
Task Manager(s)	
Status	Ongoing

Description

The Communications Department is an Executive support function responsible for a broad range of activities that support the District's mission, Governing and Basin boards, and other departments. Departmental functions include projects funded by the Governing and Basin boards, such as public information and media coordination; youth and public education programs and initiatives in coordination with local governments and other community organizations; promotion of sound water conservation practices; presentation of projects to the Basin boards in the budget adoption process; and graphics support for Basin Board presentations. Communications Department staff support the Basin Board through the following tasks. Basin Board meetings are attended on an as-needed basis to make presentations, answer questions, and participate in budget discussions. Responses are prepared to answer Board Member questions and requests via oral and written communications. Educational materials are developed, reviewed, updated, promoted, and distributed. Assistance is provided to cooperators to develop education projects that support the District's mission. Education and grant programs are promoted at schools and to cooperators. Support is provided to the Basin Board Education Committee. Media contact summaries and articles are disseminated. The District's web site is maintained.

Status As Of: March 13, 2007

As of this date, this project will not show an update. Ongoing project details are shown in the project description.

Risk Management - Peace River Basin

Project Type	On-Going Activities
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Pinellas-Anclote River, Withlacoochee River, Peace River
Cooperator(s)	
Project Manager	PETRUCCELLI, LUCY
Task Manager(s)	
Status	Ongoing

Description

The funds budgeted for this project apply to insurance on insured water control structures in this basin. Those structures with their corresponding insured values include: Alligator Creek Salinity Barrier - \$216,000, Peace Creek P-3 -\$71,000, P-5 - \$439,000, P-6 - \$262,000, P-7 - \$67,000, P-8 - \$253,000, P-11 - \$328,000, and G-90 - \$898,000. The total insured value is \$2,534,000. The District's current property insurance is rated at \$.575/100 of value. Governing Board Policy 120-1, directs that a Risk Management function be maintained to protect the assets of the District using an appropriate market based financing measure of a blend of self-insurance, insurance or transfer of risk. Budgeting a known minimal expenditure annually for insurance premiums has been more cost effective for the individual basins than establishing permanent reserves equal to the value of an individual structure or maximum probable loss should any structure be damaged or destroyed. Property coverage is currently provided in layers through several property insurance carriers. The current deductible is set at \$5,000 on all losses except flood and wind. The District's property rate for structures increased over 300% for FY2007 policy year and the District was only able to obtain insurance on 50% of total values due to major market losses caused by weather events in 2004, 2005 and 2006. No further updates will be made on this project unless a property loss claim is reported for any of the insured structures.

Status As Of: October 30, 2006

All funds for FY2007 have been expended to cover the annual premium for insurance on the insured structures. There will be no further status reports this fiscal year unless there is a property damage claim reported on a structure.

Community Affairs - Peace River Basin

Project Type On-Going Activities
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)
Project Manager RATHKE, DAVID
Task Manager(s)
Status Ongoing

Description
Basin Board funds budgeted are for the administration and coordination of the Cooperative Funding program, including conducting cooperator workshops, processing applications, communicating with applicants and participating in project ranking. Basin Board funds are budgeted for the Community Affairs Coordinator (CAC) to attend and participate in Basin Board meetings and new Board member orientations and briefings and for the CAC's responses to Board member information requests, as well as other "as needed" services to the Basin Board. Funds are also budgeted for the CAC's administration of the FARMS Program (but not for individual FARMS projects) within the Basin.

Status As Of: March 13, 2007

As of this date, this project will not show an update. Ongoing project details are shown in the project description.

Resource Conservation and Data - Peace River Basin

Project Type	On-Going Activities
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	
Project Manager	DEHAVEN, ERIC
Task Manager(s)	
Status	Ongoing

Description

The Resource Conservation and Data Department is involved in the development of innovative agricultural water conservation projects that are designed to reduce ground water withdrawals and improve water quality within the Southern Water Use Caution Area (SWUCA). The department also focuses on the collection of baseline water resources data including water quality data and lithologic/hydrologic information of District aquifer systems. Finally, the Department provides infrastructure support by constructing wells that form the backbone of various resource monitoring initiatives such as wellfield recovery and Minimum Flows and Levels (MFLs) establishment. The department includes four sections comprised of professional, technical, and administrative staff. The Administrative section administers the operating budget, Governing and Basin Board funded projects, as well as the administration of large-scale, long-term projects such as the Facilitating Agricultural Resource Management Systems Program (FARMS), Water Quality Monitoring Program (WQMP), Regional Observation Monitoring Program (ROMP) and Quality of Water Improvement Program (QWIP).

Status As Of: March 13, 2007

As of this date, this project will not show an update. Ongoing project details are shown in the project description.

Resource Management - Peace River Basin

Project Type	On-Going Activities
AOR(s)	Flood Protection, Water Quality, Natural Systems
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	N/A
Project Manager	HAMMOND, MARK
Task Manager(s)	
Status	Ongoing

Description

The Resource Management Department addresses issues related to flood protection, water quality, and natural systems and consists of the Chemistry Lab, Engineering, Environmental, Mapping and GIS, and Surface Water Improvement & Management (SWIM) sections. The District's goal for flood protection is to minimize damage from floods by protecting and restoring the natural water storage and conveyance functions of flood prone areas. The Department's efforts involve: 1) Prevention by providing local governments and the public with information, such as topographic information, watershed management plans, and flood insurance rate maps, prior to construction in or near flood prone areas; and 2) Mitigation to reduce existing flooding problems through restoration of conveyance and storage systems. The District's goal for water quality is to restore, protect and preserve the surface water quality in water bodies within the District. The Department's efforts involve diagnostic, monitoring and implementing water quality improvement projects. The District's goal for natural systems is to protect, preserve and restore natural Florida ecosystems. The Department's efforts involve wetland system restoration. The District's SWIM Program addresses water quality and natural systems. In 1987, the Florida Legislature established the SWIM Act recognizing that water quality and habitat in surface waters were being degraded. As required by the Act, the District has developed state approved plans for ten SWIM water bodies of significance, and is implementing programs for the improvement of those water bodies. SWIM projects are eligible for state matching funds with the state funding 50 percent of the project costs and the District funding the remaining 50 percent. The funds budgeted here are for coordinating the SWIM and Cooperative Funding Programs, and those unforeseen basin analyses which occur during the year. The Department works on ongoing projects and reviews, evaluates, and ranks each Fiscal Year's Cooperative Funding projects related to water quality, natural systems, and flood protection. Staff makes recommendations regarding these projects, and other items proposed in each year's budget. Staff also works to address any budget issues identified at Basin Board meetings. The substantial increase in staff allocation is to address engineering analyses to restore historical surface water storage and flow throughout the basin, which will support the re-establishment of minimum flows to the upper Peace River.

Status As Of: March 15, 2007

As of this date, this project will not show an update. Ongoing project details are shown in the project description.

Resource Conservation & Development - Peace River Basin

Project Type	On-Going Activities
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	
Project Manager	JONES, GREGG
Task Manager(s)	
Status	Ongoing

Description

The Resource Conservation & Development Department includes the Conservation Projects, Hydrologic Evaluation, and the Ecologic Evaluation sections. The funds budgeted here are for coordinating the Water Supply and Resource Development Program, Water Resource Assessment Projects, such as Minimum Flows and Levels, New Water Sources Initiative (NWSI), and Cooperative Funding Program, and those unforeseen basin analyses which occur during the year. Resource Conservation and Development staff prepare for and attend Basin Board meetings. The Section's staff interact with Basin Boards on a number of activities that are critical to the development of environmentally sustainable water supplies and conservation. These activities include regional water supply planning, minimum flows and levels development, the District's conservation initiative, status of conservation and reclaimed water projects, status of Peace River/Manasota Regional Water Supply Authority Projects, status of major water resource investigations, status of the Partnership Agreement, status of efforts to rehydrate wetlands and lakes, discussion of Board accomplishments at annual workshops, development of the fiscal year budgets, evaluation of cooperative funding proposals from cooperators, execution of contracts for projects, briefing of new Basin Board members, and the preparation of information in response to requests from Basin Board members.

Status As Of: January 03, 2007

As of this date, this project will not show an update. Ongoing project details are shown in the project description.

Operations - Peace River Basin

Project Type	On-Going Activities
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	
Project Manager	HOLTKAMP, MIKE
Task Manager(s)	
Status	Ongoing

Description

The Operations Department consists of five sections including Administration, Field Operations, Aquatic Plant Management, Hydrologic Data, and Structure Operations. The Administration section provides support for departmental management, planning, budgeting, and clerical functions. The Field Operations section is responsible for maintenance and restoration of all District-owned lands including fence construction, mowing, culvert installations, road and bridge maintenance and construction, fire line maintenance, prescribed burn support, erosion control, and well site preparation/restoration. The Aquatic Plant Management section is responsible for aquatic and ditch bank vegetation management operations on District flood control systems, the control of exotic aquatic plants on natural waters throughout the District, and the control of aquatic vegetation around water control structures and lake level gauges. Additionally, the Aquatic Plant Management section controls/eradicates infestations of upland invasive species including Brazilian pepper, Australian pine, cogongrass and tropical soda apple on all District-owned conservation lands. The Hydrologic Data section is responsible for designing, installing, and maintaining data collection sites in support of the District's resource monitoring and technical analysis, as well as data analysis and database management. The Structure Operations section inspects, operates, maintains, and repairs all District-owned flood and water conservation structures as well as salinity barriers throughout the District. This section also directs and operates the District's Emergency Operations Center (EOC), which is part of a state and nationwide storm tracking and emergency response network. Included in this project are administrative salary allocations associated with overseeing field operations and maintenance, aquatic plant management, emergency operations, Supervisory Control and Data Acquisition (SCADA), and structure operations programs throughout the Basin, as applicable. Funds expended have been to prepare for Basin Board meetings as required or provide data to Board members, local agencies or the public.

Status As Of: March 13, 2007

As of this date, this project will not show an update. Ongoing project details are shown in the project description.

Land Resources - Peace River Basin

Project Type	On-Going Activities
AOR(s)	Flood Protection, Water Quality, Natural Systems
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	
Project Manager	SUTTON, ERIC
Task Manager(s)	WALSH, TOM, BLASCHKA, STEVEN, LOVE, KEVIN, MILLER, WILL
Status	Ongoing

Description

The Land Resources Department consists of five sections, including Administration, Land Acquisition, Land Management, Survey, and Land Use and Protection. The Administration section provides support for departmental management, planning, budgeting and clerical functions. The Land Acquisition section acquires lands as set forth in the District's Florida Forever Workplan. These lands are acquired for various functions including flood control, water storage and management, conservation and protection of water resources, aquifer recharge and recovery, water resource development, and preservation of wetlands, streams, lakes, and other natural systems. The Land Management section is responsible for the management and protection of natural and cultural resources on District lands. Major functions include natural systems restoration, prescribed burning, forest management, exotic species control, and monitoring. The Survey section is responsible for providing land surveying assistance in support of various projects and programs within the District. The Land Use and Protection section is responsible for land use activities on District lands including development of recreational trails and facilities, monitoring of public and private uses, management of the security officer program and maintaining visitor safety. Included in this project are activities on District-managed lands purchased with funds other than Florida Forever, Preservation 2000 and Save Our Rivers such as surveying costs (salaries and equipment rental), miscellaneous land use requests (salaries), resource protection (utilities and maintenance) and structural flood control projects.

Status As Of: March 13, 2007

As of this date, this project will not show an update. Ongoing project details are shown in the project description.

Commissions - Peace River Basin

Project Type Prop. App.&Tax Coll.
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)
Project Manager PILCHER, LINDA
Task Manager(s) Status

Description

These funds pay the commissions due to the counties within the Basin for tax collection and property appraisals.

Status As Of: July 01, 2007

During the nine months ended June 30, 2007, \$318,225 was remitted in commissions to Property Appraisers and Tax Collectors and \$1,323 was returned to the Basin in excess fees. Property Appraiser and Tax Collector commissions are statutorily prescribed and are based on property tax levies and collections. Amounts collected in excess of the underlying Property Appraiser and Tax Collector budgets are returned to the Basin as excess fees. Excess fees not recorded as accounts receivable as of September 30, 2006 are reflected as current FY2007 revenue.

Contingencies - Peace River Basin

Project Type Reserves**Basin(s)** Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota**Cooperator(s)****Project Manager** PILCHER, LINDA**Task Manager(s) Status****Description**

Funds are budgeted for contingencies to be used at the Board's discretion. The goal is to set aside an amount equal to approximately 5 percent (2.5 percent minimum target) of the ad valorem based budget (ad valorem taxes plus interest plus balance forward multiplied by 5 percent).

Status As Of: July 01, 2007

To date, the Basin Board has not allocated any of its contingency funds.

Jack Creek

Project Type SOR
AOR(s) Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s)
Project Manager LOVE, KEVIN
Task Manager(s) NELSON, BRIAN, SOWDERS, GINA, HAGBERG, JEFFREY, MILLER, WILL, GREEN, STEPHANIE
Status Ongoing

Description

In 1989, the Governing Board authorized the acquisition of 3,200 acres of land in Highlands County, referred to as the Jack Creek project. The Jack Creek project includes a significant part of Jack Creek, its 100-year floodplain, and outlying forested areas associated with the creek system and local lake outflow wetlands. The project area also includes portions of sand pine scrub and mixed scrub, among Florida's most unique threatened upland habitats. Jack Creek and its associated swamps serve as the natural drainage basin for the immediate area, as well as the water conveyance system for lakes in the area. The well-drained scrub areas surrounding the Jack Creek system appear to offer good recharge potential throughout the year. To date, some 1,286 acres have been acquired in fee simple within the project. As a part of the approval of the 2001 Land Acquisition Five-Year Plan, the Governing Board decided to no longer pursue acquisition of the remaining lands within the project.

Benefits

Pursuant to Section 373.1391(1)(a), Florida Statutes, lands within the project are managed and maintained in such a way as to ensure a balance between public access, general public recreational purposes, and restoration and protection of their natural state and condition.

Costs

The FY2007 budget is broken down as follows: Land Resources Department: A total of \$26,796 for survey support for fence construction, resource monitoring, land maintenance, prescribed burning, fence repair, recreational monitoring and upgrading the property entrance. Operations Department: A total of \$45,134. Field Operations has budgeted a total of \$41,447 for salaries/wages, rental equipment, contracted services, central garage charges, parts, supplies, and land maintenance materials to support Land Management's requirements. The Aquatic Plant Management Section has budgeted a total of \$3,657 for invasive species control operations consisting of salaries/wages, herbicides, central garage charges and travel. FY2008 - The Land Resources Department budget consists of salaries and central garage for prescribed burning, resource monitoring, land maintenance, fence repair and recreational monitoring. The budget also includes contractual services for security. The Aquatic Plant Management Section has budgeted a total of \$4,133 to treat invasive species infestations. Field Operations has budgeted \$12,230 less salaries for rental equipment, contracted services, central garage charges, parts, supplies, and land maintenance materials to support Land Management's requirements. Costs for these activities are 100 percent reimbursed through the state's Water Management Lands Trust Fund.

	FY2007 Funding	FY2008 Funding
District Budgeted - Outside Revenue (SOR)		
020 Peace River Basin	72,994	72,064

Status As Of: June 25, 2007
 No significant activity this period.

Prairie/Shell Creek

Project Type SOR
AOR(s) Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s)
Project Manager LOVE, KEVIN
Task Manager(s) NELSON, BRIAN, SOWDERS, GINA, HAGBERG, JEFFREY, MILLER, WILL, GREEN, STEPHANIE
Status Ongoing

Description
 The Prairie Creek project, consisting of 5,385 acres was approved by the Governing Board for acquisition in 1991. In 1995, as a part of the Preservation 2000 Remaining Needs and Priority report, lands along Shell Creek were included. The Prairie/Shell Creek project now consists of 25,128 acres within Charlotte and DeSoto Counties. The lands proposed for acquisition include a greenway corridor from the mouth of the Peace River to the District's Bright Hour Watershed project to the north and to the State's Babcock-Webb Wildlife Management Area to the south. Approximately 610 acres have been acquired in fee simple within the project in Charlotte County. Lands proposed for acquisition include 13,895 acres in fee simple and 10,624 acres proposed for less-than-fee acquisition.

Benefits
 Pursuant to Section 373.1391(1)(a), Florida Statutes, lands within the project are managed and maintained in such a way as to ensure a balance between public access, general public recreational purposes, and restoration and protection of their natural state and condition.

Costs
 The FY2007 budget is broken down as follows: Land Resources Department: A total of \$11,715 for resource monitoring, land maintenance, prescribed burning, fence repair and recreational monitoring. Operations Department: Field Operations has budgeted a total of \$38,519 for salaries/wages, central garage charges, and parts and supplies to support Land Management's requirements. The increase in the budget from FY2006 is due to the installation of one mile of #4 rock on existing roads and site preparation costs associated with the installation of a recreational use area. Aquatic Plant Management Section has budgeted \$9,778 for invasive species control operations consisting of salaries/wages, herbicides, central garage charges and travel. FY2008 - The Land Resources Department budget consists of salaries and central garage for prescribed burning, resource monitoring, land maintenance, fence repair and recreational monitoring. The budget also includes contractual services for security. Field Operations has budgeted a total of \$30,779 less salaries for rental equipment, contracted services, central garage charges, parts, supplies, and land maintenance materials to support Land Management's requirements. The Aquatic Plant Management Section has budgeted a total of \$9,858 to treat invasive plant infestations. Costs for these activities are 100 percent reimbursed through the state's Water Management Lands Trust Fund.

	FY2007	FY2008
	Funding	Funding
District Budgeted - Outside Revenue (SOR)		
020 Peace River Basin	60,649	81,055

Status As Of: June 25, 2007
 Land Resources staff repaired one gate and completed approximately 100 ft of fence repairs.

Upper Lake Marion Creek Watershed

Project Type SOR
AOR(s) Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s) South Florida Water Management District
Project Manager MILLER, WILL
Task Manager(s) SOWDERS, GINA, LOVE, KEVIN, HAGBERG, JEFFREY
Status Ongoing

Description

In 1991 the Governing Board authorized staff to pursue the acquisition of 1,922 acres of land in Polk County, referred to as the Upper Lake Marion Creek Watershed project adjacent to lands under protection by the South Florida Water Management District. The relatively undisturbed creek system flows north out of Lake Marion, joins Snell Creek and ultimately flows southeast to Lake Hatchineha. The entire Lake Marion Creek basin extends over 18,300 acres and includes portions of both the Southwest and South Florida Water Management Districts. To date, the SWFWMD has acquired 297 acres in fee simple and approved an additional 1,625 acres for fee simple acquisition.

Benefits

Pursuant to Section 373.1391(1)(a), Florida Statutes, lands within the project are managed and maintained in such a way as to ensure a balance between public access, general public recreational purposes, and restoration and protection of their natural state and condition.

Costs

This District has entered into an agreement with the South Florida Water Management District (SFWMD) to provide management of SWFWMD-owned lands since, due to the property's proximity to SFWMD-managed lands, the SFWMD can manage the property more efficiently and cost effectively. For FY2007 budget is broken down as follows: Land Resources: \$9,624 for payment to the SFWMD for management of lands owned by the SWFWMD and staff time for contract monitoring. Field Operations has budgeted a total of \$10,284 for salaries/wages, central garage charges, and parts and supplies to support Land Management's requirements. The Land Resource's Departments FY2008 budget includes monies for payment to the SFWMD for management of lands owned by the SWFWMD and staff time for contract monitoring. Costs for these activities are 100 percent reimbursed through the state's Water Management Lands Trust Fund.

	FY2007 Funding	FY2008 Funding
District Budgeted - Outside Revenue (SOR)		
020 Peace River Basin	20,880	17,454

Status As Of: June 27, 2007

This property is managed by the SFWMD. No significant activities by SWFWMD this period.

RV Griffin Reserve

Project Type	SOR
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	Peace River, Manasota
Cooperator(s)	
Project Manager	LOVE, KEVIN
Task Manager(s)	LANE, CHUCK, NELSON, BRIAN, HAGBERG, JEFFREY, MILLER, WILL, ELLIOTT, PAUL
Status	Ongoing

Description

In 1991 the Governing Board authorized staff to pursue acquisition of 8,568 acres in DeSoto County, now referred to as the RV Griffin Reserve project. In 1996, the Governing Board increased the project size to 31,667 acres, with a majority of the additional lands lying in Sarasota County. The project includes lands supporting and surrounding the existing facilities at the Peace River/Manasota Regional Water Supply Authority treatment plant. Lands in the project area include mixed hardwood forests along the river; however, the majority of the lands in DeSoto County consist of pine flatwoods, rangelands, pastures, and pine plantations. The project lands support and protect present potable water supplies. To date, some 5,839 acres have been acquired in fee simple, and a conservation easement over another 3,895 acres known as the Lewis Longino Preserve. An additional 9,191 acres have been approved for acquisition in fee simple, and 15,967 acres have been approved for acquisition using less-than-fee simple techniques.

Benefits

Pursuant to Section 373.1391(1)(a), Florida Statutes, lands within the project are managed and maintained in such a way as to ensure a balance between public access, general public recreational purposes, and restoration and protection of their natural state and condition.

Costs

The FY2007 budget is broken down as follows: Land Resources Department Peace River Basin: A total of \$51,618 consisting of maintenance and repairs to the on-site house, portable toilet rental, security, recreational mowing, prescribed burning, resource monitoring, land maintenance, less-than-fee monitoring, cattle lease monitoring and recreational monitoring. Land Resources Department Manasota Basin: A total of \$2,101 to monitor the Lewis Longino Preserve conservation easement. Field Operations Peace River Basin has budgeted a total of \$63,982 for salaries/wages, rental equipment, central garage charges, parts, supplies, and land maintenance materials to support Land Management's requirements. The increase in the budget from FY2006 is due to the requested replacement of five culverts and associated land maintenance material costs. The Aquatic Plant Management Section Peace River Basin has budgeted a total of \$12,563 to treat invasive species infestations which includes salary/wages, herbicides, central garage charges and travel. FY2008 - The Land Resources Department Peace River Basin budget consists of salaries and central garage for prescribed burning, resource monitoring, land maintenance, fence repair and recreational monitoring. The budget also includes contractual services for mowing, security and demolition of structures. Funds in the Manasota Basin for FY2008 are for monitoring the conservation easement over the Lewis Longino Preserve. Field Operations Peace River Basin has budgeted a total of \$47,247 less salaries for rental equipment, central garage charges, parts, supplies, and land maintenance materials to support Land Management's requirements. The Aquatic Plant Management Section Peace River budget includes a total of \$12,709 to treat invasive species infestations on the RV Griffin Reserve. Costs for these activities are 100 percent reimbursed through the State's Water Management Lands Trust Fund.

	FY2007 Funding	FY2008 Funding
District Budgeted - Outside Revenue (SOR)		
010 General Fund (Districtwide)	0	6,478
020 Peace River Basin	129,402	106,860
021 Manasota Basin	2,143	1,687

Status As Of: July 06, 2007

Peace River/Manasota Regional Water Supply Authority has commenced on-site mitigation construction to offset wetlands to be impacted during construction of the reservoir. Aquatic Plant Management Section staff treated 27 acres infested with cogongrass, 65 acres of Old World climbing fern and 76 acres infested with Brazilian pepper.

Charlotte Harbor State Buffer Preserve

Project Type SOR
AOR(s) Flood Protection, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s) Florida State Parks
Project Manager MILLER, WILL
Task Manager(s) SOWDERS, GINA, LOVE, KEVIN, GREEN, STEPHANIE
Status Ongoing

Description

In 1995 the Governing Board authorized the acquisition of the Myakka River/Charlotte Harbor project consisting of approximately 38,000 acres in Charlotte and Sarasota Counties. In 1998 the Governing Board authorized the acquisition of an additional 6,639 acres as a part of the Charlotte Harbor project. The Charlotte Harbor Save Our Rivers project was jointly purchased between the District and the State of Florida's Conservation and Recreation Lands (CARL) program. Lands within the project area are characterized by a variety of natural lands including isolated freshwater marshes, tidal marshes, and tidal swamps. To date 7,529 acres have been acquired in fee simple and are a part of the Charlotte Harbor State Buffer Preserve. There are no more lands slated for acquisition within the project. Under a management agreement with the State, the Department of Environmental Protection's Division of Recreation and Parks is the lead land manager for the project. The following recreational improvements/amenities are available within the Preserve: canoeing and boating, with future development of a small boat launch facility, fishing, and extensive hiking trails.

Benefits

Pursuant to Section 373.1391(1)(a), Florida Statutes, lands within the project are managed and maintained in such a way as to ensure a balance between public access, general public recreational purposes, and restoration and protection of their natural state and condition.

Costs

Funds included in the FY2007 and FY2008 budgets are for staff time to monitor the District's agreement with the State. Costs for these activities are 100 percent reimbursed through the state's Water Management Lands Trust Fund.

	FY2007	FY2008
	Funding	Funding
District Budgeted - Outside Revenue (SOR)		
020 Peace River Basin	4,966	3,093

Status As Of: June 27, 2007

No significant activity this period.

Lower Peace River (Deep Creek)

Project Type SOR
AOR(s) Flood Protection, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s)
Project Manager LOVE, KEVIN
Task Manager(s) NELSON, BRIAN, SOWDERS, GINA, HAGBERG, JEFFREY, MILLER, WILL, ELLIOTT, PAUL
Status Ongoing

Description

In 1994 the Governing Board authorized the acquisition of approximately 40,000 acres within Hardee and DeSoto Counties known as the Lower Peace River Corridor project. Lands acquired and proposed for acquisition within the project include an extensive network of tributaries, floodplain swamps and connected headwaters. The project covers a corridor over 35 miles along the Peace River between Zolfo Springs at the upstream reaches, downstream to the Charlotte/DeSoto County line. Acquisition of lands within this project will provide protection for the receiving waters of Charlotte Harbor. To date, 1,988 acres have been acquired in fee simple in this project and an additional 39,323 acres have been approved for future acquisition. Recreational activities available include on-foot access and primitive camping, which is available with a special use permit. Approximately 12 miles of multi-use trails are under development.

Benefits

Pursuant to Section 373.1391(1)(a), Florida Statutes, lands within the project are managed and maintained in such a way as to ensure a balance between public access, general public recreational purposes, and restoration and protection of their natural state and condition.

Costs

The FY2007 budget is broken down as follows: Land Resources Department: A total of \$52,316 for survey support for fence construction, recreational mowing, portable toilet rental, entrance area and recreation improvements, prescribed burning, resource monitoring, land maintenance, fence repair and recreational monitoring. Field Operations has budgeted a total of \$101,073 for salaries/wages, rental equipment, contracted services, central garage charges, parts, supplies, and land maintenance materials to support Land Management's requirements. Aquatic Plant Management Section has budgeted \$41,924 for invasive plant control operations which includes outsourced labor, staff salary/wages, herbicides, central garage charges and travel. Outsourced labor will be required during FY2007 because of the addition of recently purchased land to this project which is infested with invasive species and also the fact that Old World climbing fern is expected to become more of a management problem. FY2008 - The Land Resources Department budget consists of salaries and central garage for prescribed burning, resource monitoring, land maintenance, fence repair and recreational monitoring. The budget also includes contractual services for mowing and security. Field Operations has budgeted a total of \$54,609 less salaries for rental equipment, contracted services, central garage charges, parts, supplies, and land maintenance materials to support Land Management's requirements. The Aquatic Plant Management has budgeted a total of \$12,102 to treat invasive plant infestations. Costs for these activities are 100 percent reimbursed through the state's Water Management Lands Trust Fund.

	FY2007 Funding	FY2008 Funding
District Budgeted - Outside Revenue (SOR)		
020 Peace River Basin	197,193	135,011

Status As Of: June 27, 2007

Aquatic Plant Management Section staff treated 19 acres infested with Old World climbing fern.

Bright Hour Watershed

Project Type SOR
AOR(s) Flood Protection, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s)
Project Manager MILLER, WILL
Task Manager(s) SOWDERS, GINA, LOVE, KEVIN, GREEN, STEPHANIE
Status Ongoing

Description

In 1998 the Governing Board authorized the less-than-fee acquisition of 51,158 acres in DeSoto County, referred to as the Bright Hour Watershed. To date 32,227 acres have been acquired by the District via perpetual conservation easements (less-than-fee). An additional 19,311 acres have been identified for potential purchase of conservation easements within the watershed. The project area consists of extensive, high quality prairie, hammock, marsh and slough systems that provide water management benefits for a traditionally water-poor region. Hydrologic values include protection of the headwaters of several important creek systems, such as Prairie and Shell Creeks. Water storage, conveyance and flood control are also provided by the watershed's poorly drained landscape. Habitat protection for numerous rare plant and animal species and globally imperiled, high quality natural communities is amply afforded by this project.

Benefits

Since the lands within the project are not owned in fee simple, land management activities consist of monitoring the terms of the conservation easements.

Costs

Funds included in the budget are for staff time for annual monitoring of the conservation easements. Costs for this activity are 100 percent reimbursed through the state's Water Management Lands Trust Fund.

	FY2007	FY2008
	Funding	Funding
District Budgeted - Outside Revenue (SOR)		
020 Peace River Basin	1,328	2,540

Status As Of: June 25, 2007

No significant activity this period.

Lake Hancock

Project Type	SOR
AOR(s)	Flood Protection, Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Polk County
Project Manager	MILLER, WILL
Task Manager(s)	BLASCHKA, STEVEN, NELSON, BRIAN, FAIRCLOTH, DELANEY, LOVE, KEVIN, HAGBERG, JEFFREY, ELLIOTT, PAUL
Status	Ongoing

Description

Lake Hancock is located southeast of the city of Lakeland and north of the city of Bartow in Polk County. At 4,553 acres, Lake Hancock is the largest lake associated with the Peace River, and the third largest lake in Polk County. Lake Hancock has been recognized as having some of the poorest water quality in the state. The lake is characterized by persistent blue-green algae blooms, high nutrient concentrations and low dissolved oxygen levels in the water column and vegetation, fish, and wildlife populations indicative of eutrophic to hypereutrophic conditions. A requirement of the statutorily mandated minimum flow establishment is the development of a recovery strategy. Part of the proposed strategy for the Upper Peace River is to restore storage in Lake Hancock and release some of the water during the dry season to help meet the flow requirements. Historically, Lake Hancock fluctuated more than a foot higher than it has during the past several decades. This lowering was due to the dredging of the outfall canal as was common in the early part of the last century. This project proposes to reverse those impacts by modifying or replacing the District's outfall canal structure so that water levels can be maintained at historical levels. Presently, Structure P-11 is topped when water levels in Lake Hancock exceed 98.7. This project will be coordinated with other Lake Hancock restoration efforts. In particular, there will be a supporting hydrologic analysis to determine where property interests may need to be acquired due to increased lake elevations (see H008). Land acquisition within the Lake Hancock project is a necessary element of the lake's restoration. In anticipation of these efforts, and to continue a significant greenway from the Peace River watershed to the Green Swamp, the District identified areas along the shores of Lake Hancock for potential acquisition. To date, the District and Polk County have cooperatively acquired 1,267 acres (Belloto property) and the District has acquired 4,118 acres of the Old Florida Plantation, Griffin and Coscia tracts. The 370-acre Kent tract is scheduled to close later this year. Polk County manages Circle "B" Bar Ranch (Belloto property) for passive, nature-based recreation opportunities such as bicycling, running, hiking, horseback riding, picnicking, fishing, canoeing, kayaking, and environmental education. The County has plans to build a Resource Education/Visitor Center and conduct interpretive and interactive programs that will improve public awareness and encourage stewardship and protection of natural resources.

Benefits

Pursuant to Section 373.1391(1)(a), Florida Statutes, lands within the project are managed and maintained in such a way as to ensure a balance between public access, general public recreational purposes, and restoration and protection of their natural state and condition.

Costs

The FY2007 budget is broken down as follows: Land Resources Department: A total of \$52,316 for survey support for fence construction, recreational mowing, portable toilet rental, entrance area and recreation improvements, prescribed burning, resource monitoring, land maintenance, fence repair and recreational monitoring. Field Operations has budgeted a total of \$101,073 for salaries/wages, rental equipment, contracted services, central garage charges, parts, supplies, and land maintenance materials to support Land Management's requirements. Aquatic Plant Management Section has budgeted \$41,924 for invasive plant control operations which includes outsourced labor, staff salary/wages, herbicides, central garage charges and travel. Outsourced labor will be required during FY2007 because of the addition of recently purchased land to this project which is infested with invasive species and also the fact that Old World climbing fern is expected to become more of a management problem. FY2008 - The Land Resources Department budget consists of salaries and central garage for prescribed burning, resource monitoring, land maintenance, fence repair and recreational monitoring. The budget also includes contractual services for mowing and security. Field Operations has budgeted a total of \$54,609 less salaries for rental equipment, contracted services, central garage charges, parts, supplies, and land maintenance materials to support Land Management's requirements. The Aquatic Plant Management has budgeted a total of \$12,102 to treat invasive plant infestations. Costs for these activities are 100 percent reimbursed through the state's Water Management Lands Trust Fund.

	FY2007 Funding	FY2008 Funding
District Budgeted - Outside Revenue (SOR)		
020 Peace River Basin	54,401	288,537
Project Funds Not Budgeted by the District		
Polk County	13,000	12,670

S054

Lake Hancock



Status As Of: April 27, 2007

Aquatic Plant Management staff treated three acres of the invasive, exotic species cogongrass.

Save Our Rivers Administration

Project Type	SOR
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	General Fund (District), Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	
Project Manager	SUTTON, ERIC
Task Manager(s)	WALSH, TOM, NELSON, BRIAN, LOVE, KEVIN, HAGBERG, JEFFREY, MILLER, WILL
Status	Ongoing

Description

The Save Our Rivers Administration project contains monies for those items not attributable to one unique project during the budget cycle. Examples are studies affecting all conservation lands, preparation of resource evaluation reports, heavy equipment used solely on conservation lands, overtime, staff time, vehicle charges and equipment rental.

Benefits

Pursuant to Section 373.1391(1)(a), Florida Statutes, lands within the project are managed and maintained in such a way as to ensure a balance between public access, general public recreational purposes, and restoration and protection of their natural state and condition.

Costs

The FY2007 Land Resources Department budget is broken down as follows: Funds in the Alafia River Basin are for salaries. Coastal Rivers Basin \$15,000 has been budgeted for tree removal in cases where trees fall from District property onto adjoining owners' property and the remainder for salaries. Hillsborough River Basin \$5,000 has been budgeted for tree removal in cases where trees fall from District property onto adjoining owners' property and the remainder for salaries. In the Manasota Basin \$16,780 for aerial flights to view exotic species and salaries. In the Peace Basin \$19,617 for aerial flights to view exotic species and salaries. In the Pinellas-Anclote River Basin funds are for tree removal in cases where trees fall from District property onto adjoining owners' property and the remainder for salaries. Withlacoochee Basin funds are for salaries. In addition to salaries and central garage charges, the FY2008 Land Resources budget includes funds for tree removal in cases where trees fall from District property onto adjoining owners' property in the Coastal, Hillsborough and Pinellas-Anclote Basins; and aerial flights to view exotic species in the Hillsborough, Manasota and Peace Basins. Costs for these activities are 100 percent reimbursed through the state's Water Management Lands TrustFund.

	FY2007 Funding	FY2008 Funding
District Budgeted - Outside Revenue (SOR)		
010 General Fund (Districtwide)	1,088,402	1,873,324
011 Alafia River Basin	11,768	10,258
013 Hillsborough River Basin	23,741	25,417
015 Coastal Rivers Basin	31,363	25,100
016 Pinellas-Anclote River Basin	12,286	6,926
019 Withlacoochee River Basin	9,587	7,166
020 Peace River Basin	20,024	15,417
021 Manasota Basin	17,051	15,258

Status As Of: April 30, 2007

With the exception of the District fund, the Save Our Rivers (SOR) Administration project is used primarily to budget monies for SOR, Preservation 2000 and Florida Forever (reimbursable) projects. Generally, funds are not charged to this project, but transferred to other reimbursable projects within the Basin. An example is overtime. Staff knows at budget time that overtime will be required within the basins for work on SOR projects, but does not know for which projects, so monies will be budgeted in S099. When overtime is used later in the year, the monies will show as being spent for the actual project the staff member worked on (i.e., S009- Starkey, S016 - Weekiwachee Preserve, etc.). In the District funds monies are primarily used for SOR program administration, purchase of equipment and contractual services.

Jack Creek Hydr. Rest.

Project Type SOR
AOR(s) Natural Systems
Basin(s) Peace River
Cooperator(s)
Project Manager RHINESMITH, PHILIP
Task Manager(s) KOLASA, KEITH
Status Ongoing

Description

As part of the District's Hydrologic and Wetlands Restoration program, the District's Jack Creek tract located in Highlands County has been assessed for restoration needs. The health of wetlands within the tract have declined as a result of over-drainage from the construction of the Josephine Canal. The historic canopy of loblolly bay trees has been replaced by invasive species. Proposed restoration for this project will center on rehydration of the tract's degraded wetlands. This project will provide surface water modeling, design, and permitting for restoration of the Jack Creek tract. Hydrologic restoration of the Jack Creek tract will be consistent with the District's SWUCA objectives. Rehydration of wetlands within the property will increase water storage within this region of the District as well as provide aquifer recharge. District Environmental staff are currently negotiating design and permitting costs with the consultant for project implementation.

Benefits

This project will complete the design and permitting in preparation of hydrologic restoration to be completed. Restoration will focus on enhancing the wetlands within the tract by restoring the natural hydroperiod (seasonal water fluctuation).

Costs

The total project cost was anticipated to be \$225,000. In FY2005, \$150,000 was budgeted for design and permitting and portions of the construction. The conceptual plans have been completed at a cost of \$30,000. The consultant will finalize the design plans and expects to complete permitting by the end of FY2007.

	FY2007 Funding	FY2008 Funding		
District Budgeted - Outside Revenue (SOR)				
020 Peace River Basin	3,035	336,058		
Critical Project Milestones	Projected	Amended	Actual	
1. Project Feasibility and Alternatives				
Report Draft Completed	12/1/06		12/1/06	
Final Restoration Plan	2/1/07		2/1/07	
2. Contract Development & Execution				
Start Design	4/1/07			
Complete Design	6/1/07			
3. Permitting				
Pre Application Meeting w/ FDEP	8/1/07			
Permitting Complete	10/1/07			
4. Construction				
Construction Commence	12/1/07			
Construction Completed	4/1/08			

Status As Of: June 18, 2007

An evaluation of the Jack Creek tract was completed as a task identified in project B171. The evaluation provided recommendations for completing hydrologic restoration for this tract and a cost estimate for restoration. This project (SA01) will utilize the conceptual design plan being completed under project B171 to complete final design and permitting for restoration on the Jack Creek Tract. The primary wetland and the subject of the hydrologic study has undergone significant degradation over the last 35 years due to dewatering associated with the Jackson-Josephine canal that traverses the edge of the Jack Creek tract. The concept for this project will be to divert water from the canal into the wetland to provide rehydration of the wetland and aquifer recharge. The final restoration plan was submitted to the District in January 2007. The next phase will be the design and permitting for the rehydration of the wetland. It is envisioned that the project will entail the installation of a pump and pipe to rehydrate the site with surface water from Josephine Creek.

Lake Hancock Environmental Education Center

Project Type	SOR
AOR(s)	Flood Protection, Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Polk County
Project Manager	LANE, CHUCK
Task Manager(s)	
Status	Ongoing

Description

An environmental education center is proposed to be constructed on the District's and Polk County's jointly owned Circle B Bar Reserve on Lake Hancock in Polk County. The education center would include a meeting room with conference tables, LCD projector and presentation screen; science lab with microscopes, sinks, lab stations and specimen drawers; exhibit area with museum quality interpretive panels and hands-on learning features; outdoor elements including an amphitheatre with seating for outdoor presentations and covered picnic area; office space; and storage areas. The Circle B Bar Reserve Natural Resources Management Plan, which was approved by the Polk County Commission, Peace River Basin and Governing Boards in 2002 envisioned an environmental education center on the property. Over the years, the District has funded the construction of environmental education facilities at Sawgrass Lake Park (Pinellas County), Nature's Classroom (Hillsborough County), Starkey Wilderness Park (Pasco County) and Weekiwachee Preserve (Hernando County). The vision for the Lake Hancock Environmental Education Center is that it will serve the community by providing teachers and schoolchildren with a venue to study their local natural resources. The 1,267-acre Circle B Bar Reserve was chosen to be the location of the environmental education center due to its central location to Polk County's urban population and the tremendous opportunity to highlight the Peace River headwaters. Polk County Environmental Lands Program is currently working with teachers to develop an environmental education curriculum that is designed to enhance existing resources for knowledge and understanding of local resources Polk County and unique features of the environment including the Green Swamp Area of Critical State Concern, the Lake Wales Ridge and the Peace River Corridor.

Benefits

Pursuant to Section 373.1391(1)(a), Florida Statutes, lands within Preserve are managed and maintained in such a way as to ensure a balance between public access, general public recreational purposes, and restoration and protection of their natural state and condition.

Costs

The Lake Hancock Environmental Education Center is anticipated to cost \$2,250,000 to design, permit and construct. The District and Polk County will each provide 50 percent of the funding for the center. Costs for this activity are 100 percent reimbursed through the state's Water Management Lands Trust Fund.

	FY2007 Funding	FY2008 Funding		
District Budgeted - Outside Revenue (SOR)				
020 Peace River Basin	2,822	1,352		
Critical Project Milestones	Projected	Amended	Actual	
Execute Agreement				7/1/06
First payment of funding - design plans completed	12/1/06			10/25/06
Begin Construction	3/1/07			
End Construction	9/30/07			

Status As Of: June 28, 2007

County has begun construction of the education center.

Deep Creek Recreational Improvements

Project Type SOR
AOR(s) Natural Systems
Basin(s) Peace River
Cooperator(s) DeSoto County
Project Manager SOWDERS, GINA
Task Manager(s)
Status Ongoing

Description

DeSoto County Parks and Recreation Department is partnering with the District on the development of public recreation amenities on the Deep Creek property. Recreation amenities will be located on the District's property so that they can be utilized in concert with DeSoto County's adjacent property and a public boat ramp to enhance the site. Amenities proposed for the site include a public parking area, a boardwalk, restroom, picnic shelter and roadway improvements. The location of these amenities to the public boat ramp, DeSoto County's property and the Peace River makes this site an ideal location for boating and other interests. The County will manage the amenities upon execution of a management agreement with the District.

Benefits

Pursuant to Section 373.1391(1)(a), Florida Statutes, lands within Preserve are managed and maintained in such a way as to ensure a balance between public access, general public recreational purposes, and restoration and protection of their natural state and condition.

Costs

\$158,000 was budgeted in FY2003 for these amenities. These costs are reimbursable from the Water Management Lands Trust Fund.

	FY2007 Funding	FY2008 Funding	
District Budgeted - Outside Revenue (SOR)			
020 Peace River Basin	2,822	0	
Critical Project Milestones	Projected	Amended	Actual
Site plan developed by County	4/30/04		4/15/05
Conceptual site plan submitted to District	11/15/05		11/1/05
County receives first funding draw	12/30/05		1/30/06
Final engineering site plan	1/30/06		1/21/06
County receives 2nd funding draw	3/1/06	5/1/06	
Construction completed-final draw	6/1/06	9/30/06	
Park open to public	6/30/06	10/31/06	
Opening ceremony	7/31/06	11/15/06	

Status As Of: June 27, 2007

The anticipated completion is expected in August. The County has a paving bid out and to be completed this week. The District has requested the County survey the engineering plan project boundary.

Polk County Watershed Exhibit

Project Type SOR
AOR(s) Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s) Polk County Natural Resources
Project Manager O'NEIL, RAINA
Task Manager(s)
Status Ongoing

Description

This watershed education project consists of the creation of an interactive watershed exhibit at the Polk County Environmental Education Center at the Circle B Bar Reserve and a wetland planting to enhance a stormwater pond, which will serve as an outdoor classroom at the Center. Through this project, school-aged youth and the general public will experience the watersheds in which they live, including the Peace River watershed.

Benefits

This project enhances the District's watershed education efforts throughout the Peace River Basin by addressing key objectives for watershed education through the following messages: 1. water is a limited resource, 2. good stewardship of water resources begins in one's own backyard, 3. everyone lives in a watershed and 4. wildlife diversity depends upon healthy wetlands and good water quality.

Costs

The total project cost is \$80,000, and the Peace River Basin Board's contribution is \$40,000 in Save Our Rivers (SOR) funds for this project. It is anticipated that in the Center's first year of operation 15,850 individuals will be reached through this project, at a cost to the District of \$2.53 per person.

	FY2007	FY2008
	Funding	Funding
District Budgeted - Outside Revenue (SOR)		
020 Peace River Basin	40,000	0

Status As Of: June 29, 2007

A groundbreaking ceremony and the unveiling of the official name, "Polk's Nature Discovery Center," took place on March 9, 2007. Although the Polk County Board of County Commissioners approved the contract for construction on January 10, 2007, due to permitting issues, the construction began on April 23, 2007. Construction is anticipated to be completed by July 2, 2008. Because of these delays, no purchase order for exhibits has been issued by the District. The exhibit design process is underway and preliminary design documents have been submitted to the District for review. Staff anticipates opening the purchase order before July 31, 2007.

Project Type SWIM
AOR(s) Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Pinellas-Anclote River, Peace River
Cooperator(s) Hillsborough Community College Foundation
Project Manager O'NEIL, RAINA
Task Manager(s)
Status Proposed

Description

The HCC Foundation Field Trip Program includes three different field trip programs for elementary and middle school students in Hillsborough, Pinellas and Polk counties. The three sites for the field trips are English Creek, Upper Tampa Bay and Cockroach Bay. The programs are designed to give participants a better understanding of Florida's water resources through hands-on field experiences with highly qualified, HCC professors, and ultimately create the next generation of environmental stewards.

Benefits

This project is designed to implement an environmental education initiative in Tampa Bay. Tampa Bay was identified as the highest priority on the District's Surface Water Improvement and Management (SWIM) priority list in 1988. The project's goals are to teach students and teachers the importance of preserving and maintaining productive ecosystems and the role water plays throughout Florida's environment, specifically Tampa Bay.

Costs

The total FY2008 project cost is \$151,085, and the proposed District's share of \$52,286 is funded by SWIM (\$26,143) and is requested to be split among the following Basin Boards: Alafia (\$7,059), Hillsborough (\$12,548), NW Hillsborough (\$5,490), Pinellas-Anclote (\$523) and Peace (\$523). Basin budget breakdowns were established based on a list of FY2007 program participants provided by the cooperator. Budget lines below include costs to manage the project. District funding will be used to fund 120 field trips, a four-day teacher training program, supplies and materials and transportation for 5,000 students. This cost-effective program will reach 5,000 students at a total cost of \$30 per person and a cost to the District of \$10.46 per person.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	0	7,285	0	7,285
013 Hillsborough River Basin	0	0	12,951	0	12,951
014 Northwest Hillsborough Basin	0	0	5,666	0	5,666
016 Pinellas-Anclote River Basin	0	0	540	0	540
020 Peace River Basin	0	0	539	0	539
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	0	0	26,980	0	26,980
Project Funds Not Budgeted by the District					
HCC Foundation	0	98,800	75,000	0	173,800
Other funding sources	12,000	10,000	10,000	0	32,000
			Total		\$259,761

Status As Of:

Biennial Seagrass Mapping of Tampa Bay, Sarasota Bay, Charlotte Harbor

Project Type	SWIM
AOR(s)	Water Quality, Natural Systems
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Pinellas-Anclote River, Peace River, Manasota
Cooperator(s)	Charlotte Harbor National Estuary Program, Pinellas County, Sarasota Bay Estuary Program, Tampa Bay Estuary Program
Project Manager	KAUFMAN, KRIS
Task Manager(s)	GRANT, BJ
Status	Ongoing

Description

This SWIM initiative project involves mapping and monitoring seagrass within three SWIM priority waterbodies: Tampa Bay, Sarasota Bay, and Charlotte Harbor. In addition to SWIM waterbodies, contractual services for the St. Joseph Sound/Clearwater Harbor Biennial GIS Mapping of Seagrass (See K150) are completed under a single agreement to benefit from economy of scale. Specifically, the District's consultant will provide digital aerial photography, photointerpretation, and GIS-based mapping in order to generate calculations of seagrass acreage and distribution within each of the named waterbodies. The project is conducted every two years to monitor the long-term health of these vital resources. The 2005-2006 mapping effort is complete and District staff are requesting FY2007 and FY2008 funds for the upcoming 2007-2008 effort. The digital format utilized in 2004 and 2006 allowed for more detailed GIS analysis to be conducted beyond creation of the original seagrass map product and will allow for efficient transfer of the imagery to fill agency and public requests. A new task for the project in 2007-2008 will be to scan photography from 1994, 1996, 1999, 2002 at high resolution and create digital GIS imagery layers that will then be uploaded to the District's GIS system. SWIM will utilize a pre qualified firm procured under the Mapping & GIS Section's RFP 006-07 as the consultant for the next phase of mapping. District funds shown in the table include staff salaries.

Benefits

The mapping of seagrasses within each estuary allows the District, the Estuary Programs, and other entities to monitor the health and distribution of seagrasses. Seagrass health is used as an indicator of water quality conditions. Thus, this project can assist with water resource management decision making, specifically in evaluating the effectiveness of water quality improvement projects.

Costs

The project costs for mapping SWIM waterbodies in 2007-2008 is estimated at \$332,000. Costs associated with the upcoming 2007-2008 effort are included in the FY2007 and FY2008 budgets. The FY2007 budget was \$168,350, with State SWIM and six basin boards contributing. The FY2008 budget is \$163,650, with State SWIM and six basin boards contributing. The percent of this effort paid by each basin is based on the amount of area per waterbody flown for the aerial photography. Tampa Bay is approximately 55% of the area flown, Sarasota Bay is 7%, and Charlotte Harbor is 38%. For the total project costs of \$332,000, four basins (Alafia River, Hillsborough River, Northwest Hillsborough, Pinellas-Anclote River) will fund 5.5% of the cost at \$18,260 each. The Manasota Basin will fund 13.75% of the cost at \$45,650 and the Peace River Basin will fund 14.25% of the cost at \$47,310. State SWIM will fund the remaining half of the 2007-2008 costs (\$166,000).

Additional Information

The next phase of mapping will begin in December 2007. Seagrass mapping for SWIM waterbodies (W331) and St. Joseph Sound Clearwater Harbor (K150) will be completed under one agreement at a total estimated cost of \$300,000. Seagrass meadows serve as nurseries for a variety of commercially and recreationally important species of fin fish and shellfish, and they are highly dependent upon the maintenance of good water quality. The project meets the goals and objectives of the Tampa Bay, Sarasota Bay, and Charlotte Harbor SWIM Plans, the Tampa Bay Estuary Program, Sarasota Bay Estuary Program, and Charlotte Harbor National Estuary Program. The mapping effort was last conducted in 2005-2006. Between 2004 and 2006, seagrass coverage in Tampa Bay increased by approximately 4.7%. In Sarasota Bay, which has a more highly urbanized watershed than Tampa Bay, seagrass increased 7% in coverage from 2004 to 2006. From 2004 to 2006, Charlotte Harbor seagrass coverage increased by 1%. The only SWIM waterbody to experience a loss in coverage between 2004 and 2006 was Lemon Bay with a 1% decrease.

Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
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District Budgeted - Ad Valorem Based Revenue

011 Alafia River Basin	21,027	10,044	10,549	0	41,620
013 Hillsborough River Basin	21,027	10,044	10,549	0	41,620
014 Northwest Hillsborough Basin	21,027	10,044	10,549	0	41,620
016 Pinellas-Anclote River Basin	21,027	10,044	10,549	0	41,620
020 Peace River Basin	55,059	26,022	27,331	0	108,412
021 Manasota Basin	54,017	25,110	26,372	0	105,499

District Budgeted - Outside Revenue

State Trust Funds (SWIM)	81,678	91,302	95,897	0	268,877
State Trust Funds (SWIM) - Prior 2006	165,904	0	0	0	165,904

Total **\$815,172**

Critical Project Milestones**1. Critical Project Milestones**

	Projected	Amended	Actual
Request for Proposals	6/15/03		7/11/03
Begin Review of Proposals	8/15/03		9/22/03
Draft Agreement to Management Services	10/31/03		12/17/03
Contract Executed	11/15/03		1/16/04
Photography Shot for 2003/2004	1/31/04		1/17/04
Final Report for 2003/2004	12/31/04		12/31/04
First Amendment to the 2003/2004 Agreement	12/1/05		12/13/05
Consultant Notice to Proceed	12/1/05		12/13/05
Acquisition of Aerial Photography	1/31/06	2/15/06	2/10/06
Final Deliverables for 2005/2006	12/31/06		12/31/06
Agreement Expiration Date	12/31/06		12/31/06

Status As Of: July 05, 2007

The 2006 final deliverables have been received and reviewed. The District presented the results of the 2006 mapping effort to the Seagrass Working Group, the DEP Mapping of Florida's Coastal and Marine Resources Meeting, and each Estuary Program in early 2007. SWIM will utilize a pre qualified firm procured under the Mapping & GIS Section's RFP 006-07 as the consultant for the next phase of mapping to begin in December 2007.

Project Type SWIM
AOR(s) Flood Protection, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s) Polk County Natural Resources
Project Manager SIMS, SHELLEY
Task Manager(s)
Status Proposed

Description

This project is in response to a cooperative funding project from Polk County. This project provides for the acquisition of 8 parcels of land, including appraisals, surveys, easement acquisitions, design and permitting which about a wetland depressional area north of Clubhouse Road and east of Dismuke Road in Lakeland, Florida. The acquisition of these parcels would provide additional acreage to the existing wetland system to increase the open water area for storage and the littoral area available for additional wetland planting, thereby improving the natural systems. The wetland is a low lying area along the Lakeland Highlands Ridge that now receives considerably more surface water due to development of the land upgradient. Stormwater currently overflows through a pipe under Elizabeth Place to a swale that discharges to Banana Lake, a SWIM priority water body. Polk County has obtained the services of a consultant to evaluate the existing drainage within the basin and will develop a design to optimize the existing wetland system incorporating the additional parcels.

Benefits

This project will improve water quality and enhance natural systems. The additional acreage provided adjacent to the wetland will increase the open water area for storage and increase the littoral shelf area available for additional wetland planting.

Costs

The FY2008 project cost is \$500,000, with Polk County and the District each contributing half (\$250,000). The District share is split between the Peace River Basin Board (\$125,000) and State SWIM (\$125,000). The County has requested a total of \$500,000 which includes \$300,000 for appraisals, surveys and easement acquisitions; \$200,000 for design, permitting and construction bids. Polk County has also applied for a 319 grant from FDEP in the amount of \$800,000 for future construction costs and public education signage. District funds shown in the table include staff salaries.

Additional Information

During the past 10 years a significant portion of the 285 acre basin has been developed for residential use. Stormwater runoff has been conveyed to retention ponds which border the wetland area adding to increased seasonal high water flows. In 2004, this increase directly impacted four homes adjacent to the wetland, causing one to be permanently abandoned. In 2006 Polk County, in cooperation with the Federal Emergency Management Agency (FEMA), purchased and demolished the abandoned home site at a cost of \$320,000 for the structure. FEMA contributed \$220,000 and Polk County contributed \$100,000 to purchase the abandoned home site. This abandoned home site is to be included in the additional acreage to be incorporated into the existing wetland system.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	127,134	125,000	252,134
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	0	0	127,134	125,000	252,134
Project Funds Not Budgeted by the District					
FDEP 319 Grant	0	0	800,000	0	800,000
Polk County Natural Resources	100,000	89,021	250,000	0	439,021
			Total		\$1,743,289

Status As Of: June 26, 2007

A pre-application meeting with Bartow Regulation is scheduled for June 28, 2007.

SWIM Plan Implementation - Charlotte Harbor

Project Type SWIM
AOR(s) Water Quality, Natural Systems
Basin(s) Peace River, Manasota
Cooperator(s) Charlotte Harbor National Estuary Program
Project Manager GARCIA, LIZANNE
Task Manager(s) KAUFMAN, KRIS
Status Ongoing

Description

This project provides for the administration and implementation of projects as outlined in the SWIM Plan for Charlotte Harbor. The FY2008 budget will include staff salaries and administrative costs to implement projects in the SWIM Plan. Administration and implementation includes assessment of implementation progress, a review and refinement of the Pollutant Load Reduction Goal (PLRG) for the waterbody, periodic SWIM Advisory Committee meetings, new project development (rationale and justification), development of relevant contracts and Requests for Proposals, invoicing, project related presentations, field visits, and miscellaneous duties as they arise. Included in the FY2006 budget was \$50,000 for a historical benthic habitat mapping and change analysis of Charlotte Harbor. The project will be similar to the effort completed for Tampa Bay in determining historical seagrass coverage from 1950s aerial photography. This project will allow the District and the Charlotte Harbor National Estuary Program (CHNEP) to refine goals being set for this system.

Benefits

This project's support of the Charlotte Harbor SWIM Plan creates an opportunity for a cohesive effort between the District, the CHNEP, and other state and local agencies to better implement resource management decisions and restoration activities. SWIM projects are eligible for state matching funds with the state funding 50 percent of the project costs and the District funding the remaining 50 percent.

Costs

The FY2007 and FY2008 ongoing costs for the Charlotte Harbor SWIM Plan Implementation are funded 12.5 percent from the Manasota Basin, 37.5 percent from the Peace River Basin, and 50 percent from the State SWIM Program and include staff salary, travel and central garage.

Additional Information

In 1987, the Florida Legislature established the Surface Water Improvement and Management (SWIM) Act having recognized that water quality and habitat in surface waters throughout the state have degraded or were in danger of being degraded. The Act requires the five water management districts to maintain a priority list of water bodies of regional or statewide significance within their boundaries, and develop plans and programs for the improvement of those water bodies. To date, ten SWIM water bodies in the District have had plans developed and approved by the state. Several plans have been updated one or more times as required by the Act. The Charlotte Harbor SWIM Plan was first approved in 1993 and last updated in November 2000. Since the first plan, the District has initiated a number of restoration and diagnostic assessment projects. Included within these are: 1) implementation of a water quality monitoring program, 2) development of a pollutant loading model, 3) investigation of a resource-based pollutant load reduction goal, 4) assessment of toxin levels, 5) identification of cumulative impacts to freshwater inflow reductions, 6) seagrass mapping efforts, 7) various habitat restoration projects, and 8) involvement in numerous public outreach and education activities.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	66,445	16,782	3,151	0	86,378
021 Manasota Basin	22,149	5,594	1,050	0	28,793
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	36,201	22,376	4,201	0	62,778
State Trust Funds (SWIM) - Prior 2006	76,230	0	0	0	76,230
			Total		\$254,179

Critical Project Milestones

1. SWIM Plan Critical Project Milestones

	Projected	Amended	Actual
Last Update of SWIM Plan			11/22/00
Next Update of SWIM Plan	6/1/07		

2. Benthic Habitat Map Critical Project Milestone

Status As Of: June 27, 2007

SWIM Plan Update: The last update of the SWIM Plan for Charlotte Harbor became effective in 2000. District staff continue

SWIM Plan Implementation - Charlotte Harbor

to work with the Charlotte Harbor National Estuary Program, the Florida Department of Environmental Protection and local governments to implement projects in the 2000 Plan. Current projects being implemented in the Charlotte Harbor watershed include W527, W528, W555, W556, and W558. Updates for these projects are included under the individual project numbers. Status of the activities implemented with the Charlotte Harbor National Estuary Program are provided under project number W526. The District is waiting until the CHNEP Management Plan has been updated before updating the Charlotte Harbor SWIM Plan to ensure that both documents are consistent in their overall goals. The District through the CHNEP is actively participating in the update of the CHNEP Management Plan and the CHNEP has proposed that the CCMP update be completed by the end of 2007. Benthic Habitat Map Update: The consultant has acquired, scanned, and orthorectified historical photography for creation of a GIS layer. The District met with consultants and cooperators to review and approve project progress thus far.

CHEC Charlotte Harbor/Lemon Bay SWIM Watershed Education

Project Type	SWIM
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	Peace River, Manasota
Cooperator(s)	Charlotte Harbor Environmental Center
Project Manager	ANTOINE, KENDRA
Task Manager(s)	
Status	Proposed

Description

This project provides for a water quality education program in the Charlotte Harbor area. The program has the following components: volunteer water quality monitoring, Journey to the Estuary boat tours, speaking presentations, workshops, wading trips, printing expenses, educational bus tours and attendance at special events. The Charlotte Harbor Environment Center (CHEC) is coordinating this education effort.

Benefits

The project fosters a sense of stewardship for the Peace River, Charlotte Harbor, Lemon Bay and related freshwater resources through focused education opportunities for public participation and schools. The program provides an opportunity for comparison of different areas within the Charlotte Harbor and Lemon Bay watersheds. These programs are consistent with the District's watershed management and watershed education initiatives. The educational efforts help residents and visitors to better understand the relationship of the harbor, the river and their lives. The knowledge gained from this program equips participants with the foundation to make informed future watershed decisions.

Costs

The total FY2008 project cost is \$77,808. The District's share is proposed at \$38,904 to be shared between the Peace River Basin Board--\$15,562 (80%) and the Manasota Basin Board -- \$3,890 (20%). SWIM is expected to contribute \$19,452. The program is projected to reach 5,500 residents, giving a cost-benefit for the total cost of \$14. The cost benefit for the District's share is \$7. The approximately 10% budget increase over FY2007 is a result of project costs associated with a scope change. Budget lines below include costs for staff to manage the project.

Additional Information

Volunteer water quality monitoring provides valuable data to various government and environmental agencies as part of an ongoing data collection system to monitor the health of the harbor. The Lemon Bay Watershed Education Program is an effort to support existing watershed activities underway in the region. The District is working with the CHEC, Sarasota and Charlotte counties, the Charlotte Harbor National Estuary Program, the Science and Environment Council of Sarasota County and others to coordinate watershed education efforts.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	46,770	14,130	16,399	0	77,299
021 Manasota Basin	30,501	3,533	4,100	0	38,134
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	22,272	17,662	20,498	0	60,432
State Trust Funds (SWIM) - Prior 2006	76,737	0	0	0	76,737
Project Funds Not Budgeted by the District					
Other Funding Sources	20,375	24,675	40,000	0	85,050
			Total		\$337,652

Critical Project Milestones
FY2007 Budgeted Funds

	Projected	Amended	Actual
Initiate purchase order	1/2/07		1/2/07
First Task Report Due	2/15/07		2/15/07
Second Task Report Due	4/15/07		4/15/07
Third Task Report Due	6/15/07		6/15/07
SWIM Water School	6/29/07		2/19/07
Volunteer Water Quality Monitoring	9/14/07		
Charlotte Harbor estuary wading tours	9/14/07		
"Keep It Clean" booklet	9/14/07		
Lemon Bay Conference	9/14/07		4/24/07
Lemon Bay Watershed Education	9/14/07		
Fourth Task Report Due	9/14/07		
Journey Through The Estuary Boat Trips	9/14/07		

Speaking Programs	9/14/07
Event Outreach	9/14/07
Project Close	9/28/07

Status As Of: June 29, 2007

To date, the following tasks have been completed under the FY2007 scope of work: the CHEC planned and implemented a 3-day SWIM Water School with an average of 30 participants each day; conducted 8 public speaking programs reaching 604 citizens; hosted 15 wading trips with 316 participants; developed a "Keep It Clean" booklet, which is currently in the print process; executed a Lemon Bay Conference on March 24 with over 100 citizens participating; developed a Lemon Bay display that has been present at 5 community events reaching 591 residents; conducted 2 training sessions for the volunteers involved in the water quality monitoring program and completed 2 speaking presentations reaching 14 volunteers for this program.

CHEC Peace River Watershed Education

Project Type SWIM
AOR(s) Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s) Charlotte Harbor Environmental Center
Project Manager ANTOINE, KENDRA
Task Manager(s)
Status Proposed

Description

The Charlotte Harbor Environmental Center (CHEC) will develop and provide watershed education outreach programs to residents about their impact on the Peace River watershed and on Charlotte Harbor. The CHEC will identify target audiences and develop and deliver specific educational programs and products. Program activities will include: development and implementation of a network of volunteer river monitors, participation in community events and speaking engagements, small acreage farm and ranch owners education on BMP's and an Upriver and Down River educational bus tour of the Peace River. All program components will focus on improving the health of the watershed.

Benefits

The Peace River discharges into Charlotte Harbor, a SWIM priority water body and a Charlotte Harbor National Estuary Program (CHNEP) designated "estuary of national significance." This project contains components that contribute to the District's watershed education efforts throughout the Peace River Basin. This project proposes to identify behaviors and encourage actions that residents can take to protect water resources.

Costs

The total FY2008 project cost is \$38,700. Of the District's \$19,350 share, the Peace River Basin Board is requested to provide \$9,675 and SWIM is to contribute \$9,675. The \$1,044 (5%) increase in the budget compared to FY2007 reflects a scope change. This program is projected to reach 5,000 people directly through programming at a cost of approximately \$8 per person. Budget lines below include costs for staff to manage the project.

Additional Information

Beginning in FY2005 with funding from Peace River basin initiatives for public education (P268), CHEC conducted research for a watershed education program. Based on research results, the CHEC developed a plan and began to implement a watershed education program in FY2006 also funded through basin initiatives for public education. In FY2007, the program received SWIM funding.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	11,912	11,037	0	22,949
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	0	11,912	11,037	0	22,949
Project Funds Not Budgeted by the District					
Charlotte Harbor Environmental Center	0	23,826	19,350	0	43,176
			Total		\$89,074

Critical Project Milestones

FY2007 Budgeted Funds

	Projected	Amended	Actual
First Task Report Due	2/15/07		2/15/07
Second Task Report Due	4/30/07		4/25/07
Third Task Report Due	7/31/07		6/25/07
Fourth Task Report Due	9/14/07		

Status As Of: June 29, 2007

To date, the following tasks have been completed under the FY2007 scope of work: 1) 8 volunteer river monitoring SID (site identification) numbers have been created by the CHEC staff and approved by District staff, 2) the third month of volunteer river water quality monitoring is complete, 3) 36 participants attended an Up River educational bus tour and 18 participants attended a Down River bus tour. These tours educate participants about the Peace River watershed, 4) the CHEC participated in three special events in Polk (4/14), DeSoto (4/19) and Charlotte (4/21) counties. These events were sponsored by the District as part of the Peace River Watershed Awareness Week and reached more than 3,100 participants, 5) participation in one additional community event in Port Charlotte reaching approximately 800 residents and 6) 25 small acreage farm & ranch BMP brochures have been distributed to the Charlotte County Extension office.

Project Type	SWIM
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Florida Department of Environmental Protection
Project Manager	POWERS, STEPHANIE
Task Manager(s)	
Status	Proposed

Description

This multi-year project is a Surface Water Improvement and Management (SWIM) Program initiative consisting of the hydrologic restoration of approximately 677 acres of freshwater and saltwater wetland and salttern areas critical to early life stages of many commercially-important fishes in Charlotte Harbor. The Alligator Creek project is located on a 1,600 acre site that is owned by the Florida Department of Environmental Protection (FDEP) and is located south of Punta Gorda abutting Charlotte Harbor. The restoration activities are being performed in phases based on available funds. The current phase (Phase II) includes construction of Projects 1-A, 3, 10, 11 and 16. Project 16 will be constructed concurrently with the other projects, but under a separate agreement with the U.S. Army Corps of Engineers (USACE). Funding for FY2007 and FY2008 is to complete construction of Project 16 and for subsequent phases, which includes commencement of the design, permitting and construction of Projects 5, 6, 8, 13, and 14.

Benefits

Completion of Projects 1-A, 3, 10, 11 and 16 would restore the historic hydroperiod and associated coastal habitats to approximately 600 acres of wetland and salttern areas which have been severely impacted by anthropogenic activities. Projects 5, 6, 8, 13 and 14 would restore an additional 77 acres of coastal ecosystems.

Costs

The construction contract for projects 1-A, 3, 10, and 11 is for \$1,000,750.86. The funding agreement with the USACE for Project 16 is for \$615,384.62, of which the District is to contribute \$215,384.62. The District has an additional \$377,758.02 remaining that can be used for future projects or for Project 16 activities if it cannot be completed by the USACE. Additionally, funds requested in FY2008 (\$100,000 from the Peace River Basin and \$100,000 from a State appropriation for a total of \$200,000) are to complete Project 16 activities, and for commencement of design, permitting and construction of Projects 5, 6, 8, 13 and 14 (i.e., Phase III). It is anticipated that additional funding during future fiscal years will be necessary to meet all construction expenses and District staff will seek grant funding to help offset construction costs.

Additional Information

Charlotte Harbor is generally viewed as one of the most productive estuarine systems in Southwest Florida. Although it is appropriately considered a healthy system, problems exist in the areas of hydrologic alterations, water quality degradation, and habitat loss. The SWIM Plan for Charlotte Harbor focus on management strategies for the Peace and Myakka Rivers, in addition to Charlotte Harbor proper, to reduce point and non-point source pollution and to preserve and restore habitat. Restoration at the Alligator Creek site commenced in 1999 with design and permitting of Projects 1 and 2 (Phase I) and the formal acceptance of the Alligator Creek Conceptual Habitat Restoration Plan in December 2000. Projects 1-A, 3, 10, 11 and 16 (Phase II) represent the next set of priority projects at the Alligator Creek site, which will be followed by Projects 5, 6, 8, 13 and 14 (Phase III). This project represents a major restoration effort. As a result, the District has partnered with Mote Marine Laboratory through the cooperative funding program in FY2007 (see Project No. W555) to help determine how effective the Alligator Creek Project is and to help guide future restoration efforts in Charlotte Harbor and around the state. Charlotte Harbor is a District priority Surface Water Improvement and Management (SWIM) program waterbody and is considered an "estuary of national significance" with the establishment of the Charlotte Harbor National Estuary Program (CHNEP). Water quality data and seagrass mapping efforts suggest that Charlotte Harbor's water quality is not degrading, and its fisheries' habitats are mostly stable. Data collected since its SWIM designation in 1993 indicate the system experiences annual algae blooms and that nutrient concentrations in these areas appear elevated in comparison to other Florida estuaries. The Alligator Creek Project is consistent with the habitat restoration goals of the District's SWIM Plan for Charlotte Harbor and the Charlotte Harbor National Estuary Program's CCMP.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	453,796	107,108	105,431	348,750	1,015,085
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	181,267	107,107	5,430	348,750	642,554

Ecosystem Trust Fund - Alligator Ck Rstr (SWIM)	800,000	0	0	0	800,000
Ecosystem Trust Fund - Charlotte Hbr Rstr	0	0	100,000	0	100,000
FCMP - Alligator Creek Restoration (SWIM)	150,000	0	0	0	150,000
NOAA - Alligator Creek	50,000	0	0	0	50,000
State Trust Funds (SWIM) - Prior 2006	408,794	0	0	0	408,794
Project Funds Not Budgeted by the District					
FCMP	120,000	0	0	0	120,000
U.S. Fish and Wildlife Service	16,700	0	0	0	16,700
USACE	400,000	0	0	0	400,000
			Total		\$3,703,133

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
Consultant Selection Short List Approved by Basin Board			2/1/02
Request for Bids			8/16/05
Permit Application Sent to SWFWMD and ACOE			11/16/00
RFP for Final Design and Permits sent to Management Services	4/30/01		4/16/01
RFP released	9/28/01		10/9/01
Draft Contract to Management Services	6/7/02		6/7/02
Contract Executed	8/7/02		10/9/02
Draft Conceptual Design Report	11/7/02		12/6/02
Draft Conceptual Design Report	11/7/02		12/6/02
90 Percent Plan Submittal	3/6/03		3/6/03
100 Percent Plan Submittal	6/6/03		7/2/03
100 Percent Plan Submittal	9/6/03		9/11/03
Permits Received	3/27/04		6/23/04

Status As Of: July 02, 2007

Design and permitting of Projects 1-A, 3, 10, 11 and 16 (Phase II) is complete, providing for the enhancement and restoration of approximately 600 acres of priority restoration projects identified in the current Restoration Master Plan. Actual exotic clearing work on Projects 3 and 10 commenced at the end of 3/2006 and in time for the dry season, although subsequent rains and the resulting wet site conditions had slowed construction almost to a halt. Construction of Projects 1-A, 3 and 10 is now complete. Materials were delivered to Project 11 in 5/2006 and earthwork commenced during the week of 2/12/2007. Project 16 construction is anticipated to commence in spring 2007. All construction should be complete by 9/2007. Grant funds in the amount of \$50,000 (NOAA), \$16,700 (USFWS), and \$120,000 from the Florida Coastal Management Program (FCMP) have been secured for construction. The fully executed agreement with the FDEP for the FCMP funds was received on 12/06/2005. A time extension was obtained in August 2005 for the USFWS grant. District staff were informed (05/04/2004) that the USACE has ranked a joint funding proposal between the District and CHNEP as the top restoration project in a nation-wide selection process. Funds in the amount of \$400,000 are available for covering at least a portion of the construction costs for Project 16. On 11/09/2004, the District sent a Letter of Intent to the USACE stating that the District would serve as the local sponsor. In 4/2005, the USACE provided the District with draft versions of a Decision Document and a Project Cooperative Agreement (PCA), which upon execution would formally commit the District and Corps to the project. The Decision Document has been approved by the USACE. District and USACE staff have reviewed the final PCA and determined that it needs modified by the USACE in Washington, D.C., to correct a provision in the PCA that contradicted state law. It is anticipated that the PCA will be fully executed in spring 2007 and construction on Project 16 will commence soon thereafter. The District and the engineering consultant revised their agreement to provide for expanded CEI work for the duration of construction. The Request for Bid (RFB) was advertised on 08/16/2005, and the bid responses were opened on 09/14/2005. Two responses were received, with Tampa Contracting Services (TCS) winning the contract. The TCS bid for the base bid projects (Projects 1-A, 3, 10 and 11) is \$1,000,750.86. The private entity construction agreement was fully executed on 3/2/2006, the notice to proceed was issued to TCS on 3/7/2006, and the contractor mobilized soon after that. USACE construction staff estimate that they can construct all of Project 16 for less than \$200,000, which is significantly lower (approx. \$1,200,000 lower) than the construction contractor's bid for Project 16. Additional funds requested for FY2008 will be used to either supplement construction funds for Project 16 in case the Corps cannot complete construction, or for design of the next set of priority projects (i.e., Phase III) at the Alligator Creek site. On 1/04/2006, District staff met with FDEP staff to identify the next five priority projects. They are, in order of priority, Project 8, Projects 5 & 6, and Projects 13 & 14. Design of these projects is anticipated to commence in FY2007.

Charlotte Harbor Water Quality Monitoring

Project Type	SWIM
AOR(s)	Water Quality
Basin(s)	Peace River, Manasota
Cooperator(s)	Charlotte County, Florida Fish and Wildlife Conservation Commission
Project Manager	SZAFRANIEC, MARY
Task Manager(s)	KAUFMAN, KRIS
Status	Ongoing

Description

This project is an ongoing SWIM Initiative to monitor water quality in Charlotte Harbor, a SWIM priority waterbody and designated estuary of national significance. The purpose of the water quality monitoring is to establish a long-term database of water quality conditions within the estuary to provide essential data for planning and management purposes, such as implementation of the Charlotte Harbor SWIM Plan. The District began collecting and analyzing monthly water quality samples from Charlotte Harbor in 1993. In 2000, the District worked with staff from Charlotte County (County) and the Florida Fish and Wildlife Conservation Commission (FFWCC) to develop an implementation plan for long-term water quality monitoring. As a result of these discussions, the District, County, and FFWCC agreed to cooperatively monitor water quality in Charlotte Harbor. The District and the FFWCC are responsible for collection of 25 samples per month. The County is responsible for analyzing each sample for 11 water quality parameters, including nutrients, color and turbidity. Data management and publication of the data for this project are completed under W547.

Benefits

The project created a multi-agency cooperative effort that provides a long-term water quality dataset to assist in establishing the health of the Charlotte Harbor study area and provide information on changes in water quality.

Costs

The FY2008 project cost is \$45,900, which includes \$22,950 from State SWIM, \$17,212 from the Peace River Basin Board and \$5,738 from the Manasota Basin Board. District funds shown in the table include staff salaries.

Additional Information

Charlotte Harbor is generally viewed as one of the most productive estuarine systems in southwest Florida. Although it is appropriately considered a healthy system, problems exist in the areas of hydrologic alterations, water quality degradation, and habitat loss. The SWIM Plan for Charlotte Harbor focus on management strategies for the Peace and Myakka Rivers, in addition to Charlotte Harbor proper, to reduce point and non-point source pollution and to preserve and restore habitat. The objectives of this project are consistent with these strategies. This coordinated effort involves two separate agreements: 1) an agreement between the District and the County outlining responsibilities of both parties but does not involve the transfer of funds, and 2) an agreement between the District and the FFWCC outlining sampling services and reimbursement rates for water quality monitoring.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	103,275	15,770	17,820	0	136,865
021 Manasota Basin	34,426	5,257	5,940	0	45,623
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	21,585	21,026	23,760	0	66,371
State Trust Funds (SWIM) - Prior 2006	174,171	0	0	0	174,171
			Total		\$423,030

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
Draft Agreement to Contracts	12/31/00		11/21/00
Basin Board Approval of Agreement	4/30/01		12/13/00
Governing Board Approval of Agreement	4/30/01		12/19/00
Contract Executed	5/1/01		5/7/01
First Water Quality Monitoring Event	5/12/01		5/12/01
Notice to Proceed	6/1/01		5/9/01
FFWCC First Amendment to Contracts Management	3/26/04		4/2/04
FFWCC First Amendment Fully Executed	5/31/04		9/27/04
Charlotte County First Amendment Fully Executed	3/30/05		3/30/05
FFWCC Contract Termination	5/8/07	5/22/07	
FFWCC Second Amendment to Contract Fully Executed	5/22/07		
Charlotte County Contract Termination	3/30/08		

Status As Of: July 05, 2007

To date, reimbursement has been made to FFWCC for water quality sampling efforts through March 2007. A second amendment to the original agreement was executed in May 2007. Currently, the Charlotte Harbor Environmental Center (CHEC) is presenting the results of these efforts on its website, <http://www.checflorida.org>, allowing the public to view results in terms of both status and trends in water quality.

Charlotte Harbor National Estuary Program

Project Type	SWIM
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River, Manasota
Cooperator(s)	Charlotte Harbor National Estuary Program
Project Manager	GARCIA, LIZANNE
Task Manager(s)	KAUFMAN, KRIS, POWERS, STEPHANIE
Status	Ongoing

Description

This project provides for the funding of the Annual Workplan for the Charlotte Harbor National Estuary Program (CHNEP). The District participates in three main areas. First the District's SWIM program, funded by the basin boards and State, carries out the projects that will address water quality and habitat restoration within the Harbor. Second, the District, through the basin boards and State, have contributed annual funding to the CHNEP since 1997 to carry out the administration and implement of projects identified in the CHNEP Comprehensive Conservation and Management Plan. And finally, the District provides staff to sit on the technical, management and policy (Governing Board member) committees of the program. The District's annual budget includes funding support to the CHNEP and District staff salaries, travel and central garage to administer the project, which includes attending board meetings and other workshops and invoicing.

Benefits

This project' support of the CHNEP creates an opportunity for a cohesive effort between the District, CHNEP and other state and local agencies to implement resource management decisions and restoration activities. Additionally, this project provides for leveraging funding between the partners. Projects contained within the CHNEP Annual Workplan address management issues concerning hydrologic alterations, water quality degradation, and habitat loss within the Peace and Myakka River watersheds and the Charlotte Harbor estuary.

Costs

The District has provided funding to the CHNEP on an annual basis since 1997. The District's annual funding commitment for the CHNEP is \$110,000, The District share is split between the Manasota Basin Board (12.5%, \$13,750) and the Peace River Basin Board (37.5%, \$41,250). The remaining 50% (\$55,000) will come from State SWIM funds. District funds are used to implement projects outlined in the Annual Workplan. District funds in the table include staff salaries, travel and central garage.

Additional Information

In 1987, the Florida Legislature established the Surface Water Improvement and Management (SWIM) Act, having recognized that water quality and habitat in surface waters through out the state have degraded or were in danger of being degraded. The Act requires the District to maintain a priority list of waterbodies of regional or statewide significance within their boundaries. Charlotte Harbor is designated as a priority waterbody. Charlotte Harbor was identified by the United States Environmental Protection Agency (USEPA) in 1995 as an estuary of Federal Significance and subsequently included in the National Estuary Program. As a result of this designation, the Charlotte Harbor National Estuary Program was established to assist the region in developing a comprehensive plan for the restoration and protection of Charlotte Harbor. Partners in the CHNEP include the Southwest Florida and South Florida Water Management Districts, USEPA, Florida Department of Environmental Protection, other state and federal agencies, and local governments from the watershed. The goals and strategies for the Harbor are identified in the Comprehensive Conservation and Management Plan (CCMP) for Charlotte Harbor which provides guidance to each entity on their contribution to restore the Harbor. Since 1993, the District has completed several habitat restoration projects and diagnostic assessments, including seagrass mapping, water quality monitoring, and development of a pollutant load reduction goal for the Harbor.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	231,293	42,747	44,968	41,250	360,258
021 Manasota Basin	77,097	14,249	14,989	13,750	120,085
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	62,592	56,995	59,956	55,000	234,543
State Trust Funds (SWIM) - Prior 2006	368,701	0	0	0	368,701
Project Funds Not Budgeted by the District					
CHNEP	867,725	110,000	110,000	110,000	1,197,725
			Total		\$2,281,312

Critical Project Milestones

Projected

Amended

Actual

1. FY2003 Annual Workplan Critical Project Milestones

FY2003 Contract with CHNEP Executed	5/1/03	4/23/03
FY2003 Contract Close Out	12/31/05	12/31/05

2. FY2004 Annual Workplan Critical Project Milestones

FY2004 Contract with CHNEP Executed	3/15/04	4/16/04
FY2004 Contract Close Out	12/31/06	

3. FY2005 Annual Workplan Critical Project Milestones

FY2005 Contract with CHNEP Executed	4/15/05	6/10/05
FY2005 Contract Close Out	12/31/07	

4. FY2006 Annual Workplan Critical Project Milestones

FY2006 Contract with CHNEP Executed	12/31/05	8/2/06
FY2006 Contract Close Out	12/31/08	

5. FY2007 Annual Workplan Critical Project Milestones

FY 2007 Contract with CHNEP Executed	4/1/07	6/11/07
FY 2007 Contract Close Out	12/31/09	

Status As Of: June 27, 2007

FY2004 Contract: The FY2004 contract was executed on 04/16/2004. The FY2004 Workplan includes two projects involving fish and wildlife and water quality objectives, Research and Restoration Partners projects, and a State of the Harbor Report Card. The Research and Restoration Partners Projects have been completed. The District was not provided with a draft copy of the State of the Harbor Report Card prior to it being finalized by the CHNEP. There were elements in the Report Card that the District didn't agree with, therefore, the District advised the CHNEP that this task would not be reimbursed by the District. The FY2004 Contract expired 12/31/2006, and the District is awaiting final invoices from the CHNEP. The CHNEP has indicated that all work was completed prior to the expiration date of the Contract. The District has informed the CHNEP that payment under this agreement needs to be processed before the end of September 2007 or the remaining funds will lapse. FY2005 Contract: The FY2005 Agreement was executed on 06/10/05 and expires on 12/31/2007. The FY2005 Workplan includes an update to the Water Quality Status and Trends Report prepared for the watershed in 2003. Additional projects include two Research and Restoration Partners projects (1. Do altered coastal habitats promote non-native fish invasions into the Charlotte Harbor Estuary and 2. Assessment of water quality impacts of bio-solids landspreading) and funding for the Charlotte Harbor Water Quality Monitoring Network. The District provided comments on the draft of the updated Water Quality Status and Trends Report and is awaiting a final version. The District has received the final report regarding non-native fish invasions. FY2006 Contract: Changes to the CHNEP's Workplan budget delayed the agreement process. The FY2006 Agreement was executed 8/2/2006 and expires on 12/31/2008. The FY2006 Workplan includes a special publication of Florida Scientist regarding the CHNEP 2005 Watershed summit, an Integrated GIS:IMS project, mapping of historic subbasin boundaries and funding for the Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network. The Special Issue of Florida Scientist was published and the District has received a copy. FY2007 Contract: The FY2007 Agreement was executed on June 11, 2007 and expires 12/31/2009. Projects included for funding are related to addressing environmental data and information needs to measure the health of the estuary, identify opportunities for water quality and habitat restoration projects and to measure the success of these projects. Management Conference: District staff prepared a proclamation in support of National Estuary Days for the CHNEP that was adopted by the Peace River Basin Board at its meeting in April 2007. District staff coordinated a presentation by the Executive Director of the CHNEP to the Governing Board at its meeting in June 2007 to provide an overview of the accomplishments and goals of the CHNEP and how they relate to District Initiatives.

Project Type SWIM
AOR(s) Water Quality
Basin(s) Peace River
Cooperator(s)
Project Manager KAUFMAN, KRIS
Task Manager(s) WOLDEN, CATHERINE
Status Ongoing

Description

This project is an ongoing SWIM Initiative to monitor water quality in the Peace River. Funding for this project will be used to continue the monthly water-quality monitoring program at ten United States Geological Service (USGS) stream stations in the Peace River. The data will be used in conjunction with streamflow measurements provided by an existing USGS program to estimate monthly pollutant loading at the ten gauge sites. Partners in this project include the Charlotte Harbor National Estuary Program and Charlotte Harbor Environmental Center (CHEC). Currently, CHEC is presenting results of this effort on its website www.checflorida.org (See W547).

Benefits

This data will be used to develop future water quality improvement projects as needed.

Costs

The FY2008 ongoing costs for this project are funded 50 percent from the Peace River Basin and 50 percent from the State SWIM Program and are for the District's Water Quality Monitoring Program (WQMP) staff to collect samples and the District Laboratory to analyze the samples. District funds shown in the table include staff salaries.

Additional Information

The Peace River discharges into Charlotte Harbor, a SWIM priority waterbody and a Charlotte Harbor National Estuary Program (CHNEP) designated "estuary of national significance." Charlotte Harbor is generally viewed as one of the most productive estuarine systems in Southwest Florida. Although it is appropriately considered a healthy system, problems exist in the areas of hydrologic alterations, water quality degradation, and habitat loss. The SWIM Plan for Charlotte Harbor focus on management strategies for the Peace and Myakka Rivers, in addition to Charlotte Harbor proper, to reduce point and non-point source pollution and to preserve and restore habitat. The objectives of this project are consistent with these strategies.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	85,334	28,643	28,458	0	142,435
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	24,841	28,643	28,457	0	81,941
State Trust Funds (SWIM) - Prior 2006	90,738	0	0	0	90,738
			Total		\$315,114

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
First Sampling Event	10/3/00		10/3/00

Status As Of: July 05, 2007

Water quality sampling is ongoing. Samples have been collected from October 2000 through June 2007. Data have been received, quality checked, and reported on through December 2006.

Water Quality in the Peace and Myakka Basins, Charlotte Harbor, and Lemon Bay

Project Type	SWIM
AOR(s)	Water Quality
Basin(s)	Peace River, Manasota
Cooperator(s)	Charlotte Harbor Environmental Center
Project Manager	SZAFRANIEC, MARY
Task Manager(s)	KAUFMAN, KRIS
Status	Proposed

Description

This ongoing project is in response to a funding request from Charlotte Harbor Environmental Center (CHEC) for water quality data management and on-line publication of water quality maps and graphs. Water quality data from various sources collected within the Peace River Basin, Myakka River Basin, Charlotte Harbor, and Lemon Bay are included. The project involves four major tasks: 1) management of estuarine water quality data involving compilation, quality assurance/quality control, and updates to a District approved database, 2) upload of data to the Environmental Protection Agency's (EPA) STORage and RETrieval (STORET) database, 3) mapping of water quality data made available on the CHEC website, and 4) graphing of District Peace and Myakka River basin water quality data made available on the CHEC website. In FY2005, the project expanded its coverage to include Sarasota County's Northern Lemon Bay water quality sampling effort, Florida Department of FDEP volunteer water quality project, and FDEP Lemon Bay monitoring network. An FY2008 cooperative funding request was received for continuation of the project's fifth year of multi-agency monitoring and management.

Benefits

Information provided through this project will offer technical support for environmental management activities conducted by the District's SWIM Program, FDEP, the Peace River/ Manasota Regional Water Supply Authority, the Charlotte Harbor National Estuary Program, and other local and regional organizations. Publication of the data in the STORET databases and website provides an historical record of the changes in water quality within each system.

Costs

The FY2008 budget is \$61,000, with the Charlotte Harbor Environmental Center and the District each contributing half (\$30,500). The District share is split between State SWIM (\$15,250), the Peace River Basin (\$11,437), and the Manasota Basin (\$3,813). The cost to each basin board is determined by its watershed's (Peace River and Myakka River watersheds) relative influence on water quality in Charlotte Harbor. District funds shown in the table include staff salaries.

Additional Information

Since 2003, the CHEC has been presenting the results of these efforts on its web site www.checflorida.org/chec/water quality, allowing the public and scientists to view the results in terms of both status and trends in water quality. Water quality data the District annually funds the Florida Fish and Wildlife Conservation Commission to collect from Charlotte Harbor, lower Lemon Bay, and the tidal reaches of the Peace and Myakka Rivers is included in Tasks 1-3 of this project (See W521). The cooperative project is executed through purchase orders and associated scopes of work. The SWIM Plan for Charlotte Harbor focuses on management strategies for the Peace and Myakka Rivers, in addition to Charlotte Harbor proper, to reduce point and non-point source pollution and to preserve and restore habitat. The objectives of this project are consistent with these strategies.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	17,531	11,775	12,766	6,000	48,072
021 Manasota Basin	17,531	3,925	4,255	2,000	27,711
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	15,183	15,698	17,020	8,000	55,901
State Trust Funds (SWIM) - Prior 2006	29,817	0	0	0	29,817
			Total		\$161,501

Critical Project Milestones
1. Critical Project Milestones

	Projected	Amended	Actual
FY2006 P.O. Final Invoice Paid			5/3/07
FY2004 First Quarter Report	12/30/03		12/19/03
Second Quarter Report	3/30/04		3/24/04
Third Quarter Report	6/30/04	12/21/04	12/21/04
Final Report	9/30/04	5/21/05	5/21/05
Expiration Date	12/31/04	6/30/05	3/21/05
FY2005 P.O. Open	3/22/05		3/22/05
FY2005 First Quarter Report	5/15/05	6/30/05	6/29/05

Water Quality in the Peace and Myakka Basins, Charlotte Harbor, and Lemon Bay

Second Quarter Report	8/15/05	9/30/05	9/30/05
Third Quarter Report	10/15/05	11/15/05	11/15/05
Fourth Quarter Report	2/15/06	3/10/06	4/13/06
FY2006 P.O. Open	3/30/06		3/30/06
FY2006 First Quarter Report	5/30/06		5/24/06
Second Quarter Report	8/30/06		8/31/06
Third Quarter and Draft Final Report	11/30/06	4/1/07	3/23/07
Fourth Quarter and Final Report	2/28/07	4/1/07	3/23/07
FY2007 P.O. Open	3/30/07		3/21/07
FY2007 First Quarter Report	5/30/07		5/3/07
FY2007 Second Quarter Report	8/30/07		6/30/07
FY2007 Third Quarter Report	11/30/07		
FY2007 Fourth Quarter Report	2/28/08		

Status As Of: July 05, 2007

The FY2007 final scope of work was approved and the purchase order was opened, March 2007. Currently, CHEC is presenting the results of these efforts on its web site, <http://www.checflorida.org>.

Coral Creek Habitat Restoration Project

Project Type	SWIM
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Florida Department of Environmental Protection
Project Manager	POWERS, STEPHANIE
Task Manager(s)	
Status	Proposed

Description

This multi-year project is a Surface Water Improvement and Management (SWIM) Program initiative consisting of the hydrologic and habitat restoration of degraded and impacted wetlands. It is also expected to provide water quality treatment for presently-untreated stormwater flows into the District and FDEP-owned project area. The project area is approximately 2,600 acres. Proposed restoration of the creek includes: restoration/enhancement of historic and man-made creek channels, intertidal, low-salinity and freshwater habitats, complementary marshes and uplands; removal of invasive, exotic vegetation; and construction of stormwater treatment features to improve water quality for the Charlotte Harbor. A preliminary assessment of restoration and stormwater treatment opportunities will need to be conducted first, followed by project design and permitting, and, finally, construction. The District is the lead agency in procuring the services of an engineering consultant and a construction contractor. The FDEP will be the entity responsible for long-term operation and maintenance of the site. A related project was submitted by the FDOT through the FY2008 Cooperative Funding Initiative (see Project No. W556, FDOT - Cape Haze Pioneer Trail Hydrologic Restoration Project). The Cape Haze Pioneer Trail Hydrologic Restoration Project is expected to improve tidal flushing in an approximately 110 acre tidal creek which has been impounded since the early 1900s due to the construction of a railroad causeway across the East Fork of Coral Creek.

Benefits

This project will provide restoration of impacted wetlands and treatment of stormwater on District-owned lands. A preliminary assessment of restoration and stormwater treatment opportunities will be conducted to determine the specific acreage of wetlands restored and to estimate the amounts of pollutant removal that can be achieved.

Costs

Funds budgeted in FY2007 (\$150,000 from the Peace River Basin and \$150,000 from a State Appropriation for a total of \$300,000) are to conduct an assessment of restoration and stormwater treatment opportunities, and for project design and permitting. Funds requested in FY2008 (\$100,000 from the Peace River Basin and \$100,000 from a State appropriation for a total of \$200,000) will be used for construction of the restoration project and for additional engineering services. It is anticipated that additional funding during future fiscal years will be necessary to meet all construction expenses and District staff will seek grant funding to help offset construction costs.

Additional Information

Approximately 2,600 acres of the District/FDEP-owned lands surround the East and West Forks of Coral Creek, which flows into Charlotte Harbor near Placida, south of the Rotonda in Charlotte County. Charlotte Harbor is a SWIM priority waterbody as well as a designated estuary of national significance as part of the National Estuary Program. The project is consistent with the habitat restoration and water quality improvement goals of the District's SWIM Plan for Charlotte Harbor. The project site is part of the 43,000 acre Charlotte Harbor Preserve State Park. The FDEP is the entity responsible for the management of the site. The property contains a number of habitat types (e.g., tidal creeks, mangrove swamps, salt marshes, salterns, salt and freshwater ponds, freshwater wetlands, pine flatwoods, scrub and other uplands) which have been impacted by anthropogenic activities. Much of the hydrology of the site has also been impacted by ditching and dredge and fill activities that occurred as recently as the mid-1970s. Further, the construction of a dam across the West Fork eliminated the saltwater signature from the upper half of the West Fork, thus creating a 270 acre freshwater impoundment now dominated by cattails. It appears that a significant volume of the stormwater runoff from the Rotonda development discharges into the West Fork without much water quality treatment. Similarly, the East Fork also appears to receive untreated stormwater discharges from a residential area to the north. Elevated nitrogen levels have been observed in Coral Creek by Charlotte Harbor National Estuary Program water quality studies. In addition to hydrologic and habitat restoration, it is envisioned that the restoration of this site would incorporate some level of treatment for stormwater runoff entering the site.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	152,963	105,576	0	258,539
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	0	2,962	5,575	0	8,537
Ecosystem Trust Fund - Coral Ck (SWIM)	0	150,000	100,000	0	250,000

		Total	\$517,076
Critical Project Milestones	Projected	Amended	Actual
1. Critical Project Milestones			
Advertise Request for Proposals	11/17/06		11/17/06
Consultant Selection	2/2/07		2/23/07
Draft Agreement Sent to Management Services	3/16/07		
Draft Agreement Returned from Management Services	4/6/07		
Agreement Sent to Consultant	4/13/07		
Signed Agreement returned from Consultant	5/11/07		
Agreement fully executed	5/25/07		
Notice to Proceed	6/1/07		

Status As Of: July 02, 2007

The Request for Proposal (RFP) to solicit engineering services for this project was drafted in cooperation with the FDEP and advertised on 11/17/2006. Twelve responses were received by the due date of 1/11/2007. Each of the responses have been reviewed with the contract being awarded to King Engineering Associates. Negotiations with King Engineering are presently underway and staff is currently preparing the draft agreement. Project design will commence soon after that.

2005 Annual Report and Summary Analysis of Water Quality Conditions for Peace and M

Project Type	SWIM
AOR(s)	Water Quality
Basin(s)	Peace River, Manasota
Cooperator(s)	Charlotte Harbor Environmental Center
Project Manager	KAUFMAN, KRIS
Task Manager(s)	
Status	Ongoing

Description

This SWIM cooperative funding request seeks to create a water quality summary report for the Peace and Myakka River systems. The project is needed to compile data from multiple inter-agency monitoring efforts into a single comprehensive water quality summary and analysis. Results of this report can be incorporated into ongoing resource management efforts in the Peace River, Myakka River, and Charlotte Harbor. The CHEC proposal contains the following elements: 1) summaries and statistical analyses of water quality data collected in water year (WY) 2005 for the Peace and Myakka basins, 2) estimated loads and yields for WY2002 through WY2005, and 3) an integrative analysis of trends in surface water quality for WY2002 through WY2005.

Benefits

The information provided by this report will be used by District staff, the Charlotte Harbor National Estuary Program, the Florida Department of Environmental Protection, and the public for assessing the health of these systems. The reports will assist in resource management decision making and will guide future restoration efforts.

Costs

The total FY2007 project cost is \$30,000 with CHEC contributing \$15,000. The District's share is \$15,000. The Peace River Basin is funding \$3,750, the Manasota Basin is funding \$3,750, and State SWIM is funding the remaining \$7,500. District funds shown in the table include staff salaries.

Additional Information

Charlotte Harbor is generally viewed as one of the most productive estuarine systems in Southwest Florida. Although it is appropriately considered a healthy system, problems exist in the areas of hydrologic alterations, water quality degradation, and habitat loss. The SWIM Plan for Charlotte Harbor focus on management strategies for the Peace and Myakka Rivers, in addition to Charlotte Harbor proper, to reduce point and non-point source pollution and to preserve and restore habitat. The objectives of this project are consistent with these strategies. The District began water quality monitoring projects along the Peace and Myakka Rivers in 2000 (See W527 & W528). Since 2001, the District has also supported sampling in the tidal portions of the Peace and Myakka Rivers by the Florida Fish and Wildlife Conservation Commission (FFWCC) (See W521). The proposed project will follow the example of previous publications created by the Charlotte Harbor Environmental Center (CHEC), e.g., the 2002 publication, titled, "Water Quality Conditions and Pollutant Loads and Yields in the Peace and Myakka River Basins," which featured data from WY2001.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	4,491	995	0	5,486
021 Manasota Basin	0	4,491	996	0	5,487
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	0	8,981	1,990	0	10,971
Project Funds Not Budgeted by the District					
Charlotte Harbor Environmental Center	0	15,000	0	0	15,000
			Total		\$36,944

Critical Project Milestones**1. Critical Project Milestones**

	Projected	Amended	Actual
Issued Purchase Order	12/31/06	5/11/07	5/10/07
Notice to Proceed	12/31/06		5/11/07
Project Kick Off Meeting	5/11/07		5/11/07
First Progress Report	8/31/07		
Second Progress Report	9/30/07		
Third Progress Report	10/31/07		
Fourth Progress Report and Final Report	12/15/07		
Final Report	12/31/07		

Status As Of: July 05, 2007

District staff opened a purchase order May 2007 for the project and a notice to proceed was given to the cooperator. District staff have met with the cooperator to review project objectives and project datasets. SWIM with assistance from WQMP staff, are compiling additional data and information that is required for completion of the project.

Evaluating the Effects of Restoration on Estuarine Fishes

Project Type	SWIM
AOR(s)	Natural Systems
Basin(s)	Peace River
Cooperator(s)	Mote Marine Laboratory
Project Manager	POWERS, STEPHANIE
Task Manager(s)	
Status	Ongoing

Description

This project will examine the effects of SWIM habitat restoration activities, specifically the Alligator Creek Wetlands Restoration Project (W511) in Charlotte Harbor, on economically-important estuarine fishes such as juvenile snook, red drum, and tarpon. The Alligator Creek Project is a major District restoration effort. Here, the District has an opportunity to partner with Mote Marine Laboratory through the cooperative funding program to help determine the effectiveness of the Alligator Creek Wetland Restoration Project. Mote Marine Laboratory takes advantage of three years of pre-restoration monitoring from four tidal creeks representing a range of anthropogenic degradation. Sampling will continue through restoration and post-restoration monitoring and seeks to address the question: what are the effects of wetland restoration projects on mangrove creek fishes? Restoration is seen as an effective means to repair anthropogenic ecological damage, but quality data on the extent that restoration projects (like the Alligator Creek project) improve estuarine ecology are incredibly rare. Likewise, there is little data on the extent that restoration of natural freshwater flows reverses these negative impacts. Quantitatively understanding how habitat restoration projects impact fishes is critical so that appropriate conservation and management measures can be enacted. The results of this project will be used as part of the monitoring and evaluation effort of the Alligator Creek Wetlands Restoration Project. This project will help validate the results of existing SWIM habitat restoration projects and the habitat restoration goals for the District's SWIM Plan for Charlotte Harbor, and will also help guide future restoration efforts in the Harbor and around the state.

Benefits

This project will document and quantify how the restoration of historic freshwater inflow patterns improve estuarine ecology for economically-important fishes as specifically applied to an existing SWIM project, i.e., the Alligator Creek Wetlands Restoration Project (W511). Results from this project will be used as part of the monitoring effort for the Alligator Creek project. This project will also result in guidance on how future conservation and management measures should be appropriately enacted.

Costs

The total project cost is \$550,000. The District's share is \$62,500 and was included in the FY2007 budget. Of the \$62,500, 50 percent (\$31,250) came from State SWIM funds and 50 percent (\$31,250) came from the Peace River Basin Board. Funds budgeted in FY2008 are for salary, travel and central garage with 50 percent of the funding from the Peace River Basin and 50 percent from the State SWIM Program. District funds shown in the table include staff salaries.

Additional Information

Florida's southwest coastline has been drastically altered for development, water management, agriculture, mining, and mosquito control purposes, which has modified freshwater flows into estuaries and caused changes to estuarine ecology. Freshwater inflow is a major ecological structuring factor in estuaries which influences the abundance and distributions of vegetation, vertebrates and invertebrates that use estuaries for some or all of their life cycles. Further, it has been shown (in Charlotte Harbor and in other estuaries) that freshwater flow alterations negatively impact estuarine fishes, especially the economically-important species. This project will document and quantify how the restoration of historic freshwater inflow patterns improves estuarine ecology.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	33,613	135	0	33,748
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	0	33,612	134	0	33,746
Project Funds Not Budgeted by the District					
Mote Marine Laboratory	425,000	62,500	0	0	487,500
			Total		\$554,994
Critical Project Milestones		Projected	Amended		Actual
Critical Project Milestones					
Issue Notice to Proceed		12/31/06			12/30/06
Sampling Commences		1/2/07			10/1/06

Final Report

12/1/07

Contract Expiration

12/31/07

Status As Of: May 02, 2007

This project is being administered through a purchase order. The third quarter of sampling has been completed and the fourth quarter has begun.

FDOT - Cape Haze Pioneer Trail Hydrologic Restoration

Project Type	SWIM
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Florida Department of Transportation
Project Manager	POWERS, STEPHANIE
Task Manager(s)	
Status	Proposed

Description

This project is in response to an FY2008 cooperative funding request from the Florida Department of Transportation (FDOT) to restore habitat and improve water quality in the upper reaches of the East Fork of Coral Creek in Charlotte County. In the early 1900s, a railroad causeway was constructed across Coral Creek effectively reducing the bank-to-bank open water width from approximately 1,000 feet down to around 30 feet. This activity significantly reduced tidal exchange and caused sedimentation in Coral Creek. Charlotte County acquired the railroad right-of-way and converted the northern segment to a rails-to-trails bike/pedestrian path, known as the Cape Haze Pioneer Trail. The District owns land on both sides of the trail. The trail presently terminates at the northern shore of Coral Creek. The County had coordinated with the FDOT through a Local Agency Participation (LAP) agreement to bridge the existing 30 foot opening and continue the trail to the south, but construction funds were redirected toward the hurricane recovery efforts after Hurricane Charlie passed through the area in August 2004. District and FDOT funds would be used for the engineering design, environmental permitting and construction for the removal of the existing causeway. Non-District funds would be used for the construction of the new elevated boardwalk. The project is anticipated to restore tidal exchange and improve estuarine and intertidal habitats to approximately 110 acres of the East Fork of Coral Creek. It would also remove significant areas of exotic vegetation growth (mostly Brazilian pepper) from project areas. Further, this project will serve to extend the Pioneer Trail to the south, thus continuing public access to the southern segment of the rails-to-trails. This project compliments the Coral Creek Habitat Restoration Project (W553), at SWIM initiative project, presently in the design phase.

Benefits

The project is anticipated to restore tidal exchange and improve estuarine and intertidal habitats to approximately 110 acres of the East Fork of Coral Creek. It would also remove significant areas of exotic vegetation growth from project areas. Additional benefits include extending the Pioneer Trail to the south, thus continuing public access to the southern segment of the rails-to-trails. Further, this project compliments the goals of the Coral Creek Habitat Restoration Project (W553), at SWIM initiative project, presently in the design phase.

Costs

The FY2008 project cost is \$60,000 for design and permitting, with the FDOT and the District each contributing half (\$30,000). The District share is split between the Peace River Basin Board (\$15,000) and State SWIM (\$15,000). Future funding requests will be made to finance construction of the project.

Additional Information

Coral Creek flows into Charlotte Harbor near Placida, south of the Rotunda in Charlotte County. Charlotte Harbor is a SWIM priority waterbody as well as a designated estuary of national significance as part of the National Estuary Program. The project is consistent with the habitat restoration and water quality improvement goals of the District's SWIM Plan for Charlotte Harbor. The project site adjacent to an ~2,600 acre parcel co-owned by the District and the FDEP, and is part of the Charlotte Harbor Preserve State Park. It appears that a significant volume of the stormwater runoff from a residential area to the north discharges into the East Fork without much water quality treatment. Elevated nitrogen levels have been observed in Coral Creek by Charlotte Harbor National Estuary Program water quality studies.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	17,602	0	17,602
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	0	0	17,602	697,500	715,102
Project Funds Not Budgeted by the District					
FDOT	0	0	30,000	697,500	727,500
			Total		\$1,460,204

Status As Of:

Characterizing Seagrass Communities of Eastern Charlotte Harbor

Project Type	SWIM
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Charlotte Harbor Environmental Center
Project Manager	KAUFMAN, KRIS
Task Manager(s)	
Status	Proposed

Description

This project is in response to a cooperative funding request from the Charlotte Harbor Environmental Center to investigate the influence of coastal freshwater creeks on seagrass communities of eastern Charlotte Harbor. The following coastal creeks (listed from north to south) occur within the SWFWMD boundary along the "East Wall" of Charlotte Harbor: Alligator Creek, Rock Creek, Whiddon Creek, Silcox Creek, Big Mound Creek, Winegourd Creek, Zemel/Clark Creek, and Bear Branch. The land uses-land covers (LULC) surrounding these creeks have been dramatically altered in the last decade, whether by ecological restoration or large residential development. Furthermore, a District-funded project documenting smaller parcels in need of restoration identified a dozen more potential projects in this area. Clearly, the state of these coastal creeks has been influenced by changes in the associated local watersheds, whether by volume of freshwater discharge, nutrients, true color, or a variety of other indicators of change. However, the impact of these changes in local watersheds on the nearshore environment is not well understood. Therefore, this project proposes an SAV monitoring and analysis program to characterize seagrass response to environmental variability (including land use changes) associated with these coastal creeks.

Benefits

Understanding the affects of fresh water influences and land use changes on Charlotte Harbor seagrasses will assist the District in identifying restoration needs for the area and will contribute to water resource management decision making. Data collected will be utilized by the Charlotte Harbor National Estuary Program's ongoing water quality target setting efforts and will provide supplemental information for the District Biennial Seagrass Mapping project (W331).

Costs

The FY2008 budget is \$40,000, with the Charlotte Harbor Environmental Center and the District each contributing half (\$20,000). The District share is split between the Peace River Basin Board (\$10,000) and State SWIM (\$10,000). District funds shown in the table include staff salaries.

Additional Information

Estuarine submerged aquatic vegetation (SAV) communities of Charlotte Harbor include several species of seagrasses, epiphytes, and macroalgae. These important components of estuarine ecology provide food, habitat, and other "functions" that support a myriad of ecological and economic relationships, blue crabs, snook, and snook fishing among them. Seagrasses depend on a balance of salinity and nutrients to survive. Several studies published in the last five years report declines in water quality of the area, while two recent reports using a variety of data sources suggest either no change or decreasing SAV (primarily seagrass) abundance and distribution in Charlotte Harbor proper, within District boundaries.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	10,732	10,000	20,732
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	0	0	10,731	10,000	20,731
			Total		\$41,463

Critical Project Milestones

1. Contract Development and Execution

Draft Purchase Order Scope of Work Submitted to District	6/30/07
District Processing of Purchase Order	10/1/07
Notice to Proceed	10/2/07

2. Project Tasks

Project Kick-off Meeting	10/15/07
Seagrass and Water Quality Sampling to Begin	11/1/07
First Progress Report	12/31/07
Second Progress Report	3/31/08
Third Progress Report	6/30/08
Fourth Progress Report and Draft Final Report	9/30/08

Project Status and Report Review Meeting
Final Report

10/15/08
12/31/08

Status As Of:

SWIM Plan Implementation - Winter Haven

Project Type	SWIM
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Winter Haven
Project Manager	SZAFRANIEC, MARY
Task Manager(s)	GRANT, BJ, GARCIA, LIZANNE
Status	Ongoing

Description

This project provides for the administration and implementation of projects as outlined in the SWIM Plan for the Winter Haven Chain of Lakes. The FY2008 budget will include staff salaries and administrative costs to implement projects in the SWIM Plan. Administration and implementation includes assessment of implementation progress, a development of a Pollutant Load Reduction Goal (PLRG) for the waterbody, periodic SWIM Advisory Committee meetings, new project development (rationale and justification), development of relevant contracts and Requests for Proposals, invoicing, project related presentations, field visits, and miscellaneous duties as they arise.

Benefits

This project's support of the Winter Haven SWIM Plan creates an opportunity for a cohesive effort between the District, and other state and local agencies to better implement resource management decisions and restoration activities. SWIM projects are eligible for state matching funds with the state funding 50 percent of the project costs and the District funding the remaining 50 percent.

Costs

The FY2007 and FY2008 ongoing costs for the Winter Haven Chain of Lakes SWIM Plan Implementation are funded 50 percent from the Peace River Basin, and 50 percent from the State SWIM Program and include staff salary, travel and central garage.

Additional Information

The Winter Haven Chain of Lakes (WHCL) is a priority waterbody on the District's Surface Water Improvement and Management (SWIM) priority list. The WHCL is composed of 19 interconnected lakes located in and around the City of Winter Haven in north-central Polk County. The first WHCL SWIM Plan was completed in 1990 and updated in 1998. The WHCL SWIM Plan proposed to continue implementing stormwater treatment projects as funding becomes available. This project provides for the administration and implementation of the projects as outlined in the adopted SWIM Plan, which includes setting a pollutant load reduction goal (PLRG). The State of Florida water policy requires the District to set a PLRG for each of its water bodies and to adopt the PLRG in a SWIM plan, other watershed management plan, or District-wide or basin specific plan. Lakes in the chain express some of the best and poorest water quality in the state. The management of the system is complicated by the lakes being connected. The objective of the recently completed PLRG modeling project was to use either the District's Linked Watershed/Waterbody model (LWWM) or other appropriate watershed and waterbody models to simulate pollutant loadings to and water quality dynamics in WHCL to finalize the PLRG for the WHCL. This model and the Winter Haven Chain of Lakes Water and Nutrient Budget (PBSJ, September 2004) will be used in the planned next SWIM Plan update. This update was anticipated in FY2007. This update has been deferred until the City of Winter Haven and the District complete the Chain of Lakes Water Quality Management Plan (W796). In addition to this project, the District and the City are implementing a Sediment Removal Feasibility (W794) study for three lakes in the Chain as well as additional stormwater treatment projects.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	36,759	5,152	5,210	0	47,121
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	3,066	5,151	5,210	0	13,427
State Trust Funds (SWIM) - Prior 2006	50,541	0	0	0	50,541
			Total		\$111,089

Critical Project Milestones

1. PLRG Consultant Agreement Development and Execution

	Projected	Amended	Actual
Contract Executed	10/1/02		9/17/02
Collecting and Analyzing Existing Data	4/5/03		1/27/03
Notice To Proceed	10/5/03		9/23/02
PLRG Simulations	7/31/04	10/31/04	10/31/04
Final Project Report	9/30/04	12/31/04	12/30/04

PLRG Contract Close Out	12/31/04		3/15/05
2. Critical Project Milestones			
Begin SWIM Plan Update	12/30/06		5/1/09
Complete SWIM Plan Update	5/1/10		

Status As Of: July 05, 2007

The Florida Department of Environmental Protection (FDEP) has developed Total Maximum Daily Loads (TMDL) for phosphorus for eight lakes in the Southern Chain (Cannon, Howard, Idylwild, Jessie, Lulu, May, Mirror, and Shipp). District staff are participating with the FDEP, the City of Winter Haven and other stakeholders in the preparation of a Basin Management Action Plan (BMAP), which is the next step in the FDEP's TMDL process. The District is working with the City of Winter Haven on the Chain of Lakes Water Quality Management Plan (W796). This study will incorporate existing information, obtain additional data, and use the previously developed nutrient budget and pollutant load reduction goal (PLRG) studies to develop water quality models of the lakes. The existing water quality models will be used to evaluate alternatives and best management practices that could be used to meet the TMDLs and PLRGs. The results of this study (W796), the PLRG study and, upon completion, the results of the Sediment Removal Feasibility Study (W794) will be used for the SWIM Plan update. The Chain of Lakes Water Quality Management Plan will not be complete until December 2008. Updates for these projects may be found under the appropriate project numbers.

South Lake Conine Watershed Restoration Project

Project Type	SWIM
AOR(s)	Flood Protection, Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Winter Haven
Project Manager	GRANT, BJ
Task Manager(s)	
Status	Ongoing

Description

This project consists of design, permitting, and construction of the South Lake Conine Watershed Restoration Project. Lake Conine is a 236 acre lake within the Winter Haven Northern Chain of Lakes, which has been classified as a Surface Water Improvement and Management (SWIM) priority waterbody. During the 1970's and 1980's, Lake Conine had some of the worst water quality in Polk County. The primary reason for this degradation was the inflow of treated wastewater from the City's Wastewater Treatment Plant #2. In 1990, the treatment plant discharge was removed from the lake and converted to reuse water for irrigation. Since the removal of the wastewater discharge, the water quality of the lake has improved but remains poor. Lake Conine has been identified as an impaired waterbody by the Florida Department of Environmental Protection. One of the primary pollution sources is a 228 acre highly urbanized watershed that discharges untreated stormwater to the south side of the lake. This untreated stormwater is the subject of this proposed project. It is estimated that this drainage area annually discharges: 495 pounds of phosphorus; 2,255 pounds of nitrogen; 365 pounds of heavy metals; 63,452 pounds of suspended solids; and 10,164 pounds of oxygen demanding substances (Dames and Moore, 1990) into Lake Conine. The treatment of this drainage area is listed as a priority in the Winter Haven Chain of Lakes SWIM Plan.

Benefits

The goal of this project will be to remove approximately 70% of the stormwater pollution from the subject watershed by using physical, chemical and biological processes. The proposed project would be 33.5 acres in size and would ultimately include parking, walking paths, boardwalks, fishing piers, and educational exhibits which would be funded by the City in the future. Additional project benefits include: wildlife habitat improvement through wetland enhancement; flood storage and watershed hydrologic benefits; groundwater recharge; and water conservation.

Costs

The total project cost is \$1,200,000, and the requested District share is \$600,000, of which, \$65,000 is requested in fiscal year (FY) 2007 for design and \$535,000 will be requested as phased funding for construction. The City of Winter Haven previously purchased 19 acres of property for \$19,500 in FY2005 and 14 acres of property in FY2006 for \$92,500, for a total of \$112,000 for City land acquisition. The District agreed to fund \$65,000 (\$32,500 from the Peace River Basin Board and \$32,500 from State SWIM) in FY2007 as match to \$65,000 funded by the City of Winter Haven for a total of \$130,000 for design. The City is requesting half of the construction dollars, \$267,500 (\$133,750 from the Peace River Basin Board and \$133,750 from State SWIM) in FY2008, with the City using the land acquisition cost as match plus \$152,500 to fulfill the FY2008 match requirement. The remaining construction budget will be requested in FY2009 and will be split 50/50 between the District and the City. District funds shown in the table include staff salaries.

Additional Information

The Winter Haven Chain of Lakes is a District Surface Water Improvement and Management (SWIM) priority waterbody and consists of 19 interconnected lakes divided into a southern and northern chain. Many of these lakes have been negatively impacted through historical point and non-point sources of pollution and many have been listed as impaired. The South Lake Conine Watershed Restoration Project is consistent with the District's SWIM Plan for the Winter Haven Chain of Lakes.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	36,933	136,728	0	173,661
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	0	36,932	136,727	0	173,659
Project Funds Not Budgeted by the District					
City of Winter Haven	112,000	65,000	152,500	267,000	596,500
			Total		\$943,820

Critical Project Milestones

1. Contract Development and Execution

	Projected	Amended	Actual
Draft agreement sent to Management Services	12/31/06		12/31/06
Draft agreement returned from Management Services	1/19/07		2/16/07
Agreement sent to Cooperator	1/26/07		2/19/07

Signed Agreement returned from Cooperator	2/23/07	5/31/07
Agreement fully executed	3/9/07	6/7/07
Notice to Proceed	3/16/07	
2. Project Tasks		
Design and Permitting complete	6/16/08	
Construction complete	9/30/10	
3. Agreement Expiration Dates		
Agreement expiration	12/31/10	

Status As Of: June 29, 2007

A cooperative agreement with the City of Winter Haven was executed on 6/7/07. The City of Winter Haven is currently preparing a RFP for the selection of a consultant.

Project Type	SWIM
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Winter Haven
Project Manager	HAGBERG, JANIE
Task Manager(s)	
Status	Completed

Description

Lake Hartridge is the uppermost lake in the Winter Haven Southern Chain of Lakes which is classified as a SWIM priority waterbody. Water quality for Lake Hartridge has shown signs of deterioration since the early 90's with its Trophic State Index increasing from an average of 40 in the late 80's to an average of 55 in the late 90's. At least a portion of this degradation can be attributed to the inflow of pollutants from a 175 acre urbanized watershed to the south of the lake. It is estimated that 430 pounds of phosphorus, 2,170 pounds of nitrogen, and 16,100 pounds of BOD are discharged to Lake Hartridge from this watershed area. The City identified a 6-acre property on the lake at the intersection of a major stormwater outfall that could treat stormwater from the identified watershed area. The City was successful in purchasing the property in October 2002. The type of treatment system anticipated for this site is wet detention. The site is on the shoreline of Lake Hartridge and will also be used for public access. The City's land purchase will serve as match towards construction costs. The City is taking the lead in design and construction and will be responsible for long-term operation and maintenance.

Benefits

This project provides water quality and natural systems benefits through treatment of stormwater from 175 acre basin and the creation of wetland habitat.

Costs

The total project budget is \$1,120,000, with the City of Winter Haven and the District each contributing half (\$560,000). The District share is split between the Peace River Basin Board (\$224,000) and State SWIM (\$336,000). District funds shown in the table include staff salaries. District funds shown in the table include staff salaries.

Additional Information

The Winter Haven Chain of Lakes is composed of 19 interconnected lakes within and around the City of Winter Haven in north central Polk County. Extreme hydrologic changes to the lakes and the high degree of urbanization have increased nutrient loading to the lakes and degraded water quality. The SWIM Plan for the Winter Haven Chain of Lakes focuses on implementing stormwater treatment projects to improve water quality. The objectives of this project are consistent with this goal.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	230,774	1,054	0	0	231,828
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	1,002	1,054	0	0	2,056
State Trust Funds (SWIM) - Prior 2006	344,661	0	0	0	344,661
Project Funds Not Budgeted by the District					
City of Winter Haven	560,000	0	0	0	560,000
			Total		\$1,138,545

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
Draft Agreement to Management Services	12/15/01		8/9/01
Draft Agreement returned from Management Services	1/31/02		10/17/01
Basin Board Approval of Agreement	2/28/02		10/12/01
Governing Board Approval of Agreement	2/28/02		10/31/01
Contract Executed	4/15/02		1/2/03
Notice to Proceed	5/1/02		1/8/03
City to Purchase Property	5/31/02	12/31/02	10/24/02
Design Complete	7/31/03	4/30/05	5/31/05
Construction Complete	12/31/04	12/31/06	9/30/06
Contract Closeout	12/31/04	12/31/06	9/30/06
Construction Signage	12/31/05		5/31/06

Lake Hartridge Stormwater Treatment Project

Status As Of: January 29, 2007

This cooperative funding project with the City of Winter Haven involves the construction of a wet detention pond adjacent to Lake Hartridge on land purchased by the City on 10/24/2002 specifically for the project. The completed project treats stormwater runoff from a 175-acre basin that prior to construction of the project, discharged directly to the lake. The City was responsible for design and construction. Construction was deemed substantially complete July 28, 2006. Final payments have been made to the City and the project has been closed out. This entry represents the final status update for the project.

Winter Haven Chain of Lakes Sediment Removal Feasibility Study

Project Type	SWIM
AOR(s)	Water Quality
Basin(s)	Peace River
Cooperator(s)	Winter Haven
Project Manager	GARCIA, LIZANNE
Task Manager(s)	SZAFRANIEC, MARY
Status	Ongoing

Description

This study will quantify the nutrient inputs from sediment into Lakes Howard, May and Lulu in the Southern Chain of Lakes in Winter Haven. The project will also study the feasibility to remove or inactivate the sediments if they are found to be contributing significant amounts of nutrients to the overlying water column. If sediment removal or inactivation is feasible, the City would request funding in future years for implementation of the study recommendations. This initial study will also identify additional information required to perform future design and permitting work. City staff recommends that the benefits of muck removal should be reviewed while opportunities for land acquisition for sediment disposal still exist. The City would be responsible for hiring a consultant to perform the study.

Benefits

The project will assist the District and the City of Winter Haven in making water quality management decisions regarding the removal or inactivation of sediments from the Lakes May, Shipp and Lulu.

Costs

The FY2005 project cost was \$150,000 with the City of Winter Haven and the District each contributing half (\$75,000). The District's share is split between the Peace River Basin Board (\$37,500) and the State SWIM Program (\$37,500). The FY2008 ongoing costs shown in the table include staff salary, travel and central garage related to project management.

Additional Information

The Winter Haven Chain of Lakes is a SWIM priority water body. The SWIM Plan for the Winter Haven Chain of Lakes references the need to quantify the effects of nutrient loading from sediments to the overlying water column. The Southern Chain of Lakes in Winter Haven has historically been subject to numerous point and non-point sources of pollution. All point sources of pollution have been removed from the lakes but the lingering effects of these discharges remain. Non-point sources of pollution have discharged into all of the above mentioned lakes through drainage pipes carrying untreated stormwater and the City has in cooperation with the District has implemented several stormwater treatment projects throughout the Chain. City staff performed a survey of the accumulated sediments in Lakes Howard, May, Shipp and Lulu in 1994. An estimated 2.9 million cubic yards of unconsolidated organic sediments exist in the bottom of the four mentioned lakes. In Lake May, the average depth of these sediments approaches 7 feet resulting in the sediment/water interface being within 3.5 feet of the water's surface during low water, allowing wind, wave and boat action to re-suspend the sediments on a continual basis.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	34,522	2,398	2,481	0	39,401
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	2,195	2,397	2,480	0	7,072
State Trust Funds (SWIM) - Prior 2006	48,490	0	0	0	48,490
Project Funds Not Budgeted by the District					
City of Winter Haven	75,000	0	0	0	75,000
			Total		\$169,963

Critical Project Milestones

1. Contract Development and Execution

	Projected	Amended	Actual
City of Winter Haven approve agreement	4/15/05		2/22/05
District approve agreement	6/15/05		3/4/05
Notice to proceed sent for agreement	8/15/05		3/9/05

2. Project Phases

	Projected	Amended
Phase I Organic Sediment Study Complete	8/30/06	2/27/07
Phase II Feasibility Study Complete	12/30/06	12/31/07
Final report submitted	8/30/07	12/31/07

3. Agreement Expiration Date

Contract Expiration	12/31/07
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Winter Haven Chain of Lakes Sediment Removal Feasibility Study

Status As Of: June 27, 2007

The consultant for the City collected water and sediment quality and hydrologic data in Lakes May, Shipp and Lulu from August 2005 to June 2006 to develop hydrologic and nutrient budgets that were used to calibrate water quality models for each of the lakes. The model was then used to evaluate the benefit to in-lake water quality from the removal of sediments from the lakes. After several delays and requests for extensions from the City, the draft report was received by the City in November 2006. The draft report recommended that the sediments be removed from Lake May and that the sediments in Lakes Shipp and Lulu be treated with alum to prevent nutrient influx into the water column. Although not included in the Phase 1 Scope of Work, the draft Phase 1 report included estimated costs for sediment removal and inactivation and recommendations for the most feasible and cost effective means of addressing the sediment impacts. (This work was to be completed under Phase 2 of the project, however, the consultant completed this work for the amount budgeted for Phase 1.) Preliminary cost estimates for these recommendations were approximately \$7.4 million. Subsequently, the City Project Manager decided to have the report peer reviewed and the City, using their own funds, contracted with Dr. Karl Havens at the University of Florida to review the report. Dr. Havens concluded the study was technically sound, however, he was of the opinion that sediment removal or inactivation would not produce significant benefits to water quality. Dr. Havens cited Banana Lake and Lake Hollingsworth as examples of lakes where post-dredging water quality had not improved as much as anticipated by lake managers and the public. City and District staff met with the consultant, Dr. Harvey Harper, in January 2007 to review comments from Dr. Havens, the City and District. At that meeting, the District project manager concluded that the consultant had met both the Phase 1 and Phase 2 requirements in the agreement between the City and the District. The total cost for this work was \$107,510, leaving a balance of \$42,490. The consultant was asked to revise the draft report to address the all the comments. The City and the District also asked the consultant to prepare a scope of work for additional data collection and analyses that would address some of the issues raised by Dr. Havens. The District approved the final report in June 2007. However, the City has not provided a Scope of Work from the consultant for the work that was discussed in January 2007. The agreement between the City and the District expires in December 2007 and the City has been notified that if a Scope of Work is not provided by August 1, 2007 the District's project manager will recommend that the remaining funds in the agreement be allowed to lapse. The District has also suggested that the City not move forward with dredging or sediment inactivation in Lakes May, Shipp and Lulu until the Water Quality Management Plan for the Winter Haven Chain (W796) is complete.

Winter Haven Chain of Lakes - Lake Howard Stormwater Retrofit Project

Project Type SWIM
AOR(s) Water Quality
Basin(s) Peace River
Cooperator(s) Winter Haven
Project Manager GRANT, BJ
Task Manager(s)
Status Cancelled

Description

This project is in response to a cooperative funding request from the City of Winter Haven to install sediment and trash removal devices for 3 of the largest outfalls presently treated by alum. The project is an expansion of the Lake Howard Alum Project, which treats stormwater from the downtown area by dosing it with aluminum sulfate (alum). Alum treatment is a proven method for removing the chemical pollutants from stormwater, but does not remove significant amounts of sediment and trash. The City of Winter Haven is the lead and will be responsible for hiring an engineer to perform the necessary survey work, evaluate various methods and products, prepare plans, and to assist in the bidding and construction of the project.

Benefits

The project will remove the sediment and trash from a combined 155.6 acres of urbanized watershed area before the water is discharged into Lake Howard.

Costs

The total project cost is \$600,000, with the City of Winter Haven and the District each contributing 50 percent of the necessary funding. The project cost is \$600,000 with the City of Winter Haven contributing \$300,000. The District's share is \$300,000. The Peace River Basin Board is funding 40% of the District's share (\$120,000) and the remaining 60% (\$180,000) will come from State SWIM funds. Funds budgeted in FY2008 are for staff salaries, central garage, and travel.

Additional Information

The Winter Haven Chain of Lakes is composed of 19 interconnected lakes within and around the City of Winter Haven in north central Polk County. Extreme hydrologic changes to the lakes and the high degree of urbanization have increased nutrient loading to the lakes and degraded water quality. The SWIM Plan for the Winter Haven Chain of Lakes Focuses on implementing stormwater treatment projects to improve water quality. Lake Howard is a 628 acre lake located immediately west of downtown Winter Haven and is one of 16 interconnected lakes known as the Southern Winter Haven Chain of Lakes. Lake Howard has experienced a positive trend in water quality improvement in the past 3 years as a result of 3 completed stormwater treatment projects, including the Lake Howard Habitat and Water Quality Improvement Project, the Lake Howard Alum Treatment Project, and the Janphyll Village Wetland Treatment Project. The Peace River Basin Board and SWIM provided funding for all 3 projects that treat 75% of the entire watershed area of Lake Howard.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	124,720	2,303	1,572	0	128,595
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	3,386	2,303	1,571	0	7,260
State Trust Funds (SWIM) - Prior 2006	182,002	0	0	0	182,002
Project Funds Not Budgeted by the District					
City of Winter Have	300,000	0	0	0	300,000
			Total		\$617,857

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
Contract Executed	3/30/05		3/11/05
Notice to Proceed	4/1/05		3/17/05
Design Complete	4/30/06	6/30/07	
Construction Complete	5/31/07	5/31/08	
Contract Termination	12/31/07		

Status As Of: June 29, 2007

The City forwarded a copy of their engineering consultant's qualifications to District staff for review on 6/1/2005. District staff reviewed the qualifications and approved the use of the consultant for this project on 6/2/2005. The City was unable to negotiate a scope of work or cost estimate with the engineering consultant. The City requested a no-cost time extension to complete the design of the project. The City is now working with a different consultant to develop a scope work and cost

Winter Haven Chain of Lakes - Lake Howard Stormwater Retrofit Project

estimate. District staff approved the engineering consultant's scope of work on 1/19/2007. Due to the size of the sediment filtration device needed to efficiently remove pollutants from the stormwater runoff and the limited space available for the project, the feasibility and design of the project has been complicated. The City has opted to cancel this project and move forward with other projects cooperatively funded by the District. The City of Winter Haven anticipates requesting funding for the Lake Howard Stormwater Retrofit Project in the future.

Chain of Lakes Water Quality Management Plan

Project Type	SWIM
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Winter Haven
Project Manager	SZAFRANIEC, MARY
Task Manager(s)	
Status	Ongoing

Description

This project is in response to a funding request from the City of Winter Haven to create water quality management action plans for the Winter Haven Chain of Lakes. The Winter Haven Chain of Lakes is a District Surface Water Improvement and Management (SWIM) priority waterbody and consists of 19 interconnected lakes divided into a southern and northern chain. This project is consistent with the Winter Haven Chain of Lakes SWIM Plan. Many of these lakes have been negatively impacted through historical point and non-point sources of pollution and many have been listed as impaired. The proposed project involves incorporating existing information, obtaining additional data, and using the previously developed nutrient budget and pollutant load reduction goal (PLRG) studies to develop water quality models of the lakes. The existing water quality models will be used to evaluate alternatives and best management practices that could be used to meet the TMDLs and PLRGs. A water quality management plan will be created with affected stakeholders, including governmental agencies, homeowners, special interest groups and interested citizens. All sources of pollution, including stormwater, point sources, sediments, and septic tanks will be addressed in the plan.

Benefits

The plan will give specific recommendations of projects that could be used to meet the SWIM Plan water quality goals and PLRGs, as well as FDEP's TMDL goals. The Plan will also provide cost estimates for the recommended projects and identify potential cooperators for project implementation.

Costs

The total project cost is \$250,000, with the City of Winter Haven and the District each contributing 50 percent of the necessary funding. The Peace River Basin Board is funding 50% of the District's share (\$62,500) and the remaining 50% (\$62,500) will come from State SWIM funds. District funds budgeted in FY2008 include staff salaries.

Additional Information

The Winter Haven Chain of Lakes is composed of 19 interconnected lakes within and around the City of Winter Haven in north central Polk County. Extreme hydrologic changes to the lakes and the high degree of urbanization have increased nutrient loading to the lakes and degraded water quality. The SWIM Plan for the Winter Haven Chain of Lakes focuses on implementing stormwater treatment projects to improve water quality. The objectives of this project are consistent with this goal.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	67,084	3,939	7,001	0	78,024
District Budgeted - Outside Revenue					
State Trust Funds (SWIM)	67,084	3,939	7,000	0	78,023
Winter Haven - Chain of Lk WS Mgmt Plan (SWIM)	125,000	0	0	0	125,000
Project Funds Not Budgeted by the District					
City of Winter Haven	125,000	0	0	0	125,000
			Total		\$406,047

Critical Project Milestones

	Projected	Amended	Actual
1. Contract Development and Execution			
Contract Executed	12/31/05	3/31/06	9/15/06
Notice to Proceed	1/6/06	3/31/06	9/22/06
2. Project Phases			
Completion of Phase I - Evaluation of Existing Information	7/1/07	10/1/07	
Completion of Phase II - Evaluation of Existing Conditions	3/1/08		
Completion of Phase III - Preparation of Water Quality Master Plan	11/1/08		
3. Agreement Expiration Date			
Agreement to expire	12/31/08		

Status As Of: July 05, 2007

The cooperative agreement was sent to the City for signature on 2/16/2006. The agreement with the City was executed September 15, 2006. Notice to proceed is effective September 22, 2006. The Scope of Work has been completed and the City has sent the consultant a Letter of Authorization to the Consultant. The consultant began Phase I tasks in June 2007. In Phase I of the project, the Consultant will evaluate existing information which includes collection, review and compiling of existing surface water, groundwater, stormwater and sediment quality and quantity information, data and studies to achieve a thorough understanding of available information and science in the Winter Haven Chain of Lakes.

USGS Peace River Basin Surface Water Flow, Level, and Water Quality Data Collection

Project Type	Basin Initiatives
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	United States Geological Survey
Project Manager	KINSMAN, GRANVILLE
Task Manager(s)	
Status	Ongoing

Description
 This initiative is to establish and maintain the Peace River Basin's surface water monitoring network, and is jointly funded by the Peace River Basin Board and the United States Geological Survey (USGS).

Benefits
 This project provides basic surface water stage, discharge and/or water quality data collection to support assessing flooding events, developing surface water management plans, facilitating habitat restoration projects, establishment and monitoring of minimum flows and levels (MFLs), establishment of total maximum daily loads (TMDLs), land acquisition and management, and other critical water management activities.

Costs
 Surface water stage, discharge and/or water quality is measured at 35 sites in the Peace River Basin for a cost of \$366,300. These sites are: Tiger Creek near Babson Park (\$10,300), Livingston Creek near Frostproof (\$10,300), Carter Creek near Sebring (\$17,400), Josephine Creek near DeSoto City (\$12,300), Peace Creek Drainage Canal near Wahneta (\$8,000), Saddle Creek at SH 542 near Lakeland (\$8,000), Lake Parker Outlet near Lakeland (\$8,000), Saddle Creek at Structure P11 near Bartow (\$8,000), Peace River at Bartow (\$8,000), Peace River at Ft Meade (\$8,000), Whidden Creek near Ft. Meade (\$12,500), Bowlegs Creek near Ft. Meade (\$7,400), Payne Creek near Bowling Green (\$10,900), Thompson Branch near Wauchula (\$1,300), Peace River at Zolfo Springs (\$8,000), Charlie Creek near Gardner (\$8,000), Peace River at Arcadia (\$8,000), Hawthorne Creek at 760A near Nocatee (\$1,300), Joshua Creek at Nocatee (\$14,100), Horse Creek near Myakka Head (\$8,000), Horse Creek at SR 665 near Limestone (\$1,300), Horse Creek near Arcadia (\$8,000), Horse Creek near Nocatee (\$1,300), Prairie Creek near Fort Ogden (\$16,700), Shell Creek near Punta Gorda (\$14,400), Prairie Creek at Washington Loop Road (\$15,900), Shell Creek at Washington Loop Road (\$15,900), Peace Creek near Bartow (\$15,500), Peace River near Bartow (\$14,400), Six Mile Creek near Clear Springs (\$14,400), Barber Branch near Homeland (\$14,400), Peace River at Clear Springs (\$14,400), Peace River near Homeland (\$13,200), Phosphate Mine Outfall CS-8 near Bartow (\$14,400), and Charlie Creek near Crewsville (\$14,300). In FY2007, eight new sites were added to the program to provide background data to help characterize and quantify seepage losses from the Peace River and development of an integrated hydrologic model of the Peace River watershed. In FY2008, two water level monitoring sites that were budgeted under Project B113 in FY2007 are being added to this project for long-term monitoring. These sites were installed to assess the hydraulic connection between the Peace River and underlying aquifers and determine the amount of flow loss due to the karst openings along the upper part of the Peace River. These sites are: Peace River Distributary at Dover Sink (\$5,300), and Gator Sink near Bartow (\$5,300). In addition, two flow monitoring sites budgeted under Project H057 in FY2007 are being added to this project in FY2008 for long-term monitoring. These sites were installed to expand the surface water flow monitoring network on water bodies designated for proposed water supply projects. The sites to be added are: Peace River at Nocatee (\$16,000) and Shell Creek near Circle K Grove (\$16,000). The cost increase in FY2008 reflects addition of these four new monitoring sites and an annual adjustment of pricing by the USGS.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	683,695	99,400	104,900	0	887,995
013 Hillsborough River Basin	1,078,355	117,400	120,900	0	1,316,655
014 Northwest Hillsborough Basin	140,874	42,700	44,200	0	227,774
015 Coastal Rivers Basin	1,024,207	228,100	236,900	0	1,489,207
016 Pinellas-Anclote River Basin	287,132	54,200	56,600	0	397,932
019 Withlacoochee River Basin	1,066,797	282,870	281,180	0	1,630,847
020 Peace River Basin	1,503,265	366,300	425,600	0	2,295,165
021 Manasota Basin	775,620	76,400	184,500	0	1,036,520
Project Funds Not Budgeted by the District					
USGS	1,008,966	173,800	173,800	0	1,356,566
			Total		\$10,638,661

Critical Project Milestones	Projected	Amended	Actual
Install flow site on Thirty-mile Creek near Nichols	10/1/00		10/1/00
Install flow site on Whidden Creek near Ft. Meade	10/1/00		10/1/00
Install stage site on Peace River near Nocatee	10/1/00		8/22/01
Install stage site on Peace River near Gardner	10/1/00	9/7/01	9/6/01
Install stage site on Peace River near Buchanan	10/1/00	11/5/01	11/5/01
Install continuous gauging/conductivity station on Peace River @ Punta Gorda	10/1/01	10/1/02	8/29/02
Install and begin monitoring surficial aquifer wells for Lake Placid Seepage Study	10/1/01	6/30/01	6/30/01
Begin discharge measurements on 7 Lake Placid Seepage Study surface water sites	10/1/01	6/30/01	6/30/01
Add specific conductance/temp. measurements on Joshua Creek at Nocatee/Prairie C	10/1/01		10/1/01
Install stage/water quality site at Prairie Creek at Washington Loop Road	10/1/03	1/31/04	1/31/04
Install stage/water quality site at Shell Creek at Washington Loop Road	10/1/03	1/31/04	1/31/04
Discontinue lake level monitoring at 14 sites	10/1/03		10/1/03
Begin flow monitoring at Peace Ck nr Bartow	10/1/03		10/1/03
Begin flow monitoring at Peace R nr Bartow	10/1/06		10/1/06
Begin flow monitoring at Six Mile Ck	10/1/06		10/11/06
Begin flow monitoring at Barber Branch	10/1/06		10/11/06
Begin flow monitoring at Peace R. at Clear Spgs	10/1/06		10/11/06
Begin flow monitoring at Peace R. nr Homeland	10/1/06		10/11/06
Begin flow monitoring at Phosphate Mine Outfall	10/1/06		10/11/06
Begin flow monitoring at Charlie Ck nr Crewsville	10/1/06		10/30/06

Status As Of: July 06, 2007

FY2007 data collection is ongoing, with no problems to report. The District's FY2007 commitment to the project is \$366,300, of which \$0 has been expended (the USGS bills us every six months for these activities).

Quality of Water Improvement Program - Peace River Basin

Project Type Basin Initiatives
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Pinellas-Anclote River, Peace River, Manasota
Cooperator(s)
Project Manager STOVER, KEVIN
Task Manager(s) Status

Description
 Pursuant to F.S. Ch. 373.206, any abandoned artesian well having a detrimental impact on the District's water resources must be properly plugged. The District's Quality of Water Improvement Program (QWIP) provides funding assistance to landowners to come into compliance with the statute. To increase landowner cooperation and the number of abandoned artesian wells plugged annually, without increasing staff levels, the District's Governing Board has allocated matching funds to augment the Alafia River, Hillsborough River, Northwest Hillsborough, Pinellas-Anclote River, Peace River, and Manasota Basins QWIP budget to maintain the Funding Assistance Initiative since January 1, 1994. The Funding Assistance Initiative was designed to reimburse landowners up to 100 percent of the cost to have their abandoned artesian wells plugged, with a maximum District reimbursement of \$5,000 per well and \$15,000 annually per landowner. This incentive has increased landowner cooperation and the number of wells plugged annually. Under the 50/50 cost sharing program, QWIP plugged an average of 50 wells per year. Under the Funding Assistance Initiative, the QWIP has reimbursed an average of approximately 200 wells per year.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	325,368	320,220	381,682	0	1,027,270
011 Alafia River Basin	290,495	73,274	126,188	0	489,957
013 Hillsborough River Basin	140,374	31,001	14,485	0	185,860
014 Northwest Hillsborough Basin	100,063	16,487	10,001	0	126,551
016 Pinellas-Anclote River Basin	81,946	10,581	8,219	0	100,746
020 Peace River Basin	567,902	131,003	159,100	0	858,005
021 Manasota Basin	1,093,963	194,296	195,540	0	1,483,799
			Total		\$4,272,188

Status As Of: June 27, 2007

Since the last update five wells have been plugged. Since the inception of the program in the mid-1970s, 636 wells have been plugged in the Peace River Basin. There are 23 additional wells that have been inspected and approved for plugging. Wells plugged since the last update are as follows: Charlotte County (1) Mailene Tehrani - four inch well casing to 145 feet with a total well depth 358 feet - plugging for an obstructed well with poor WQ and no longer in use - District reimbursement \$2,836; Polk County (1) Maronda Homes - eight inch well casing to 205 feet with a total well depth 531 feet - plugging for an obstructed well no longer in use - District reimbursement \$5,000; (2) FRM Investments - eight inch well casing to 55 feet with a total well depth 644 feet - plugging for a well no longer in use with poor WQ - District reimbursement \$5,000; (3) Twin Lake Hills Dev. - six well casing to 220 feet with a total well depth 592 feet - plugging for a well no longer in use - District reimbursement \$4,403; (4) Boardwalk Land Dev. - twelve inch well casing to unknown depth with a total well depth 500 feet - plugging for a well no longer in use - District reimbursement \$5,000.

Effect of Karst Development on Peace River Flow

Project Type	Basin Initiatives
AOR(s)	Water Supply
Basin(s)	General Fund (District), Alafia River, Peace River, Manasota
Cooperator(s)	United States Geological Survey
Project Manager	BASSO, RON
Task Manager(s)	
Status	Ongoing

Description

The project is a cooperative effort between the United States Geological Survey (USGS) and the Southwest Florida Water Management District (SWFWMD) to assess the hydraulic connection between the river and underlying aquifers, characterize and map karst features within or adjacent to the river bed, and determine the amount of flow loss to the karst openings along the upper part of the Peace River from Bartow to Ft. Meade.

Benefits

Long-term decline in Upper Floridan aquifer water levels has reversed the hydraulic gradient between the river and the underlying aquifers which has occasionally resulted in loss of perennial flow along the river between Bartow and Homeland. Understanding the extent, timing, and magnitude of flow loss to the underlying aquifers is the first step in the process of developing water resource development projects that could eventually augment low flow conditions along the upper reach of the river.

Costs

Funding for FY2003 was provided through a budget transfer from the District Fund 010 Water Resources Development Reserves and the Alafia River, Manasota, and Peace River Basins. The District's share of the total cost for the FY2003 portion of the study is \$125,000 with \$62,500 allocated from the District's General Fund, \$15,625 from the Alafia River Basin, \$15,625 from the Manasota Basin, and \$31,250 from the Peace River Basin. Subsequent years will be budgeted under the annual USGS-SWFWMD joint funding agreement with the District's share from Fund 010 contributing roughly 50 percent and the remaining 50 percent comprised from the Alafia River, the Manasota, and the Peace River basins. The Alafia River and Manasota basins make up 25 percent each with the remainder of basin funding coming from the Peace River Basin. These percentage contributions are contract dollars only and do not reflect salaries and benefits.

Additional Information

Major elements of the study include: 1) conducting an analysis of historical hydrogeologic and land-use information in the basin, 2) identifying, locating, and characterizing karst features in the river bed and flood plain, 3) quantifying the flow losses to the karst openings and gains from mining outfalls, and 4) assessing the hydraulic connection of the river to the underlying aquifers. Two new stream gaging stations will be installed on the river by the USGS between Bartow and Ft. Meade. The District will provide and supervise drilling operations at three sites near the upper part of the Peace River. Drilling operations will involve collection of data on geology, hydraulic characteristics, and degree of connection between the river bed and underlying aquifers. Monitor wells will also be installed in the surficial aquifer, intermediate aquifer system, and the Upper Floridan aquifer at each site. The project was initiated in FY2002 and funded under the annual USGS-SWFWMD cooperative agreement. Due to delays in obtaining drilling site access and the need to collect at least one-year of monitoring data from the wells, the project has been extended by three years and will be completed by October 2008. In October 2003, an interim project report was provided by the USGS that includes the location of karst features and preliminary estimates of flow loss to the underlying aquifers. A final report will present the findings of the study at the end of FY2008.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	305,700	59,778	27,388	0	392,866
011 Alafia River Basin	63,097	16,653	7,444	0	87,194
020 Peace River Basin	129,347	31,028	13,694	0	174,069
021 Manasota Basin	64,110	16,653	7,444	0	88,207
Project Funds Not Budgeted by the District					
USGS	541,400	115,000	50,000	0	706,400
			Total		\$1,448,736

Critical Project Milestones

	Projected	Amended	Actual
Draft Planning Document	9/30/02		9/30/02
Installation of 2 Stream flow Gages	9/30/02		9/30/02
Final Planning Document	3/30/03		3/30/03
Selection of Drilling/Testing Sites	3/30/03		3/7/03

Effect of Karst Development on Peace River Flow

Securing Permanent Easements for Monitor Wells	6/30/03	9/30/04	3/30/05
Interim Report on Karst Features/Seepage Loss	9/30/03		10/30/03
Completion of Coring (3 sites)	12/30/03	7/31/06	5/31/06
Completion of Monitor Well Installation (3 sites)	9/30/04	12/31/06	10/31/06
Completion of APTs	12/30/04	3/30/07	1/31/07
Draft Report	6/30/05	6/30/08	
Final Report	9/30/05	9/30/08	

Status As Of: July 01, 2007

Data continues to be collected, processed, and stored from five streamflow stations, two stage-only stations, 11 wells, and two sinkholes. The technical report summarizing the study is underway. The USGS data collection from the wells has been posted on their website.

Hotel/Motel Water Conservation Program (Water C.H.A.M.P.)

Project Type Basin Initiatives
AOR(s) Water Supply, Water Quality
Basin(s) General Fund (District), Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s) Citrus 20/20, Inc., Tampa Water Department, Hillsborough County, Progress Energy, Citrus County, City of Tampa, City of North Port - Public Utilities, City of Venice, Manatee County, Sarasota, Sarasota County, Peace River/Manasota Regional Water Supply Auth., City of Bradenton, Longboat Key
Project Manager SIEBER, SAMANTHA
Task Manager(s)
Status Proposed

Description

The Water Conservation Hotel And Motel Program (Water C.H.A.M.P.) proposes to continue providing education to hotel/motel management and guests with the goal of reducing water use. The District will provide printed materials to all participating properties to assist owners/managers in determining ways to save water through their properties' operational processes, including, but not limited to, a towel and linen reuse program. There are approximately 1,000 hotels and motels in the District. Water C.H.A.M.P. currently has a 29 percent participation rate Districtwide with 295 participants, and continues to grow. After experiencing a 33 percent growth rate in 2006, participation in Water C.H.A.M.P. has increased 15 percent in the first six months of 2007.

Benefits

Water C.H.A.M.P. provides the tools and education needed to help hotel and motel staff and guests learn to conserve water. This program measures the effectiveness of this education effort via actual water savings. Evaluation studies show that participants save an average of 20 gallons of water per occupied room per day but can save up to 50 gallons of water per occupied room per day. Based on audits of 71 properties in Pinellas and Hillsborough counties within a one-year period between 2002-2003, the total estimated savings for all participating properties in those counties was more than 100 million gallons/yr.

Costs

The total proposed cost of the program for FY2008 is \$75,496. Funding for this program covers salary and travel for the coordinator (a Board-authorized temporary staff position), printing of C.H.A.M.P. materials and education/promotion. Printed materials are purchased in bulk and are not necessarily needed every year. In FY2008, cost increases reflect the need for ordering printed materials and for increased promotion of the program through workshops, tradeshow, professional memberships, etc. Each Basin's share is based on anticipated work within that Basin. Based on the average number of guests exposed to the program, the estimated per person cost for the program is \$.01. As the program grows, the cost per person decreases. Project costs are requested to be shared among the basins as follows: Alafia River - \$3,622, Hillsborough River - \$8,276, Northwest Hillsborough - \$4,154, Pinellas-Anclote - \$18,033, Coastal Rivers - \$6,660, Withlacoochee River - \$6,287, Peace River - \$16,849, and Manasota - \$14,262.

Additional Information

Two evaluation measures were included as part of the pilot program: Guest acceptance and water savings. Hotel/motel guests give the program a 98 percent approval rating. Water savings determined by Pinellas County Utilities through on-site inspections and billing research revealed a total savings of 14 million gallons per year (mg/y) from representative properties. From those results we can project that the 76 participating Pinellas-Anclote River Basin Water C.H.A.M.P. properties (2002-2003) potentially saved a total of 71 mg/y. Based on Pinellas County water rates, that translated into a \$569,400 savings per year to participating hoteliers. Also in 2002, the Tampa Water Department conducted water use audits of 54 participating hotels and motels within Hillsborough County. According to their findings the 54 properties saved 35 million gallons of water in one year. This brought the total estimated savings in Pinellas-Anclote, Hillsborough River, Northwest Hillsborough and Alafia River basins to over 100 million gallons in a one year period from 2002 to 2003. Currently the properties that participate in the program Districtwide represent more than 27,000 hotel rooms. The average occupancy rate of these rooms is 68 percent. Evaluation studies show that these rooms save an average of 20 gallons of water per occupied room per day, but savings can go as high as 50 gallons of water per occupied room per day. Based on the average occupancy rates and water savings, Water C.H.A.M.P. can save more than 300,000 gallons of water per day.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
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District Budgeted - Ad Valorem Based Revenue

011 Alafia River Basin	9,717	3,272	3,622	0	16,611
013 Hillsborough River Basin	18,281	5,477	8,276	0	32,034
014 Northwest Hillsborough Basin	10,253	3,577	4,154	0	17,984
015 Coastal Rivers Basin	6,344	3,610	6,660	0	16,614
016 Pinellas-Anclote River Basin	156,106	11,570	18,033	0	185,709
019 Withlacochee River Basin	5,698	3,610	6,287	0	15,595
020 Peace River Basin	28,185	27,701	16,849	0	72,735
021 Manasota Basin	37,528	20,701	14,262	0	72,491

Total **\$429,773**

Critical Project Milestones	Projected	Amended	Actual
Program begins in Pinellas	6/10/02		6/10/02
Program begins in Hillsborough	6/1/03		6/1/03
Program begins in Citrus and Hernando	9/15/04	11/10/04	11/10/04
Program begins in Manasota	10/1/04		10/1/04
Program begins in Peace River	10/1/05		10/1/05
Pilot continuing education program in Pinellas	9/1/06	1/1/07	
FY2007 program begins	10/1/06		10/1/06
FY2007 program ends	9/30/07		
Education pilot program evaluation complete	1/31/08		

Status As Of: June 29, 2007

Currently Water C.H.A.M.P. has 295 participants. The list of participating properties is available on the program's web site for use by the general public and on the District's Intranet site for use by District staff for travel arrangements. Issue # 5 of the Water C.H.A.M.P. newsletter was distributed to all lodging facilities Districtwide in February. In response to the program sign-up card included in the newsletter, the program coordinator has received numerous responses from hotels wanting to participate. National Tourism week was May 12-20. The program coordinator worked with the media relations staff to send out Water C.H.A.M.P. press kits and news releases to all television, print and radio outlets. Staff met with the Tampa Tribune's tourism writer in May resulting in a story featuring Water C.H.A.M.P. and participating hotels on the front of the Business Section. Basin updates are as follows: Pinellas-Anclote River Basin - Of the approximately 374 properties in this basin, 88 are C.H.A.M.P. properties. The program coordinator participated in the "Go Green - See Green" Workshop held on April 10, presenting on the Restaurant Outreach Program in addition to Water C.H.A.M.P. The District worked in conjunction with Progress Energy, the Florida Restaurant and Lodging Association, the Florida Department of Environmental Protection, City of St. Petersburg and Pinellas County Utilities to provide this workshop to all restaurant, hotel and motel owners, general managers and directors of engineering. The Tampa Bay Beaches Chamber of Commerce is considering using the Water C.H.A.M.P. logo to acknowledging all participating properties in this basin in its 2008 Visitors' Guide. Hillsborough River, Northwest Hillsborough and Alafia River basins - Of the approximately 182 properties in this basin, 86 are C.H.A.M.P. properties. The "Going Green Can Keep You Out of the Red" conservation workshop was held on June 7. This was the first in a series of workshops planned in conjunction with the Hillsborough County Hotel and Motel Association (HCHMA). The workshop included presentations on landscape, cooling tower retrofits and indoor lighting that were targeted toward hotel and motel general managers and directors of engineering. The HCHMA also includes a water conservation column in its bimonthly newsletter, which is distributed to about 200 businesses, hotels and motels in Hillsborough County. For the second year in a row, all Water C.H.A.M.P. properties in this basin are designated with the Water C.H.A.M.P. logo in the Tampa Bay Convention and Visitors Bureau's Destination and Meeting and Planner guides. The 2007 guides are now in circulation. An Advisory Committee meeting is scheduled for Aug. 21. Coastal Rivers and Withlacochee River basins - There are approximately 100 properties in this basin, 41 are C.H.A.M.P. properties. Water C.H.A.M.P. properties are identified with the Water C.H.A.M.P. logo on the official web site of the Citrus County Visitors and Convention Bureau (Visit Citrus) at visitcitrus.com. Citrus County Utilities is working with the District to increase participation in Water C.H.A.M.P. and to increase overall conservation measures with commercial properties. Manasota Basin - There are approximately 182 properties in this basin, 52 are C.H.A.M.P. properties. Sustainable Sarasota, a county program designed to promote sustainability in the local community, will include the Water C.H.A.M.P. logo and description on its web site. The Longboat Key Public Works Department will also promote Water C.H.A.M.P. to the hotels in that area. Peace River Basin - Program began in 2006. There are approximately 184 properties in this basin, currently 28 of them are Water C.H.A.M.P. properties. The program was promoted at a meeting of the Marketing Committee of the Charlotte County Convention and Visitors Bureau on March 14. The program coordinator is working to become a member of their marketing and tourism committees to help promote the District's message of water conservation. Work is underway with the City of Lakeland to get water audit results on all participating properties in

Hotel/Motel Water Conservation Program (Water C.H.A.M.P.)

Lakeland. The city provided water use data in 2006. This new data will help determine actual water-use savings associated with the Water C.H.A.M.P. program as new properties are added. Work also is underway with the City of Winter Haven Utilities to design a bill stuffer to be included in all mailings to lodging facilities in their service area.

Florida Automated Weather Network (FAWN) Data Dissemination and Education

Project Type	Basin Initiatives
AOR(s)	Water Supply, Water Quality
Basin(s)	General Fund (District), Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	University of Florida
Project Manager	COHEN, RON
Task Manager(s)	
Status	Proposed

Description

The FAWN project started in 1997 and the District's involvement with the project started in 2003. This project collects and distributes weather and climatic data, and has an educational component to teach the public how to use the data to conserve water. Funding for the project was distributed over several years and is needed to continue data collection and dissemination.

Benefits

Increase the grower's knowledge and provide climatic data to help them reduce water use. The amount of water saved will be a function of the number of acres planted and their water use, which will change annually based on market and climatic conditions. Estimated savings are in excess of one billion gallons of water and \$500,000 per hour. Therefore during a cold winter where growers could use cold protection five (5) to ten (10) nights, annual savings could be as much as ten billion gallons of water and \$5 million to producers. Few winters require no cold protection, and it would be reasonable to assume this management tool would average saving five billion gallons of water and \$2.5 million annually. The key to realizing these water use savings is educating the public through schools; written material, trade shows, etc. In addition to collecting the data, FAWN information is used for workshops and other public events to help teach the public the significance of weather and climatic data for water conservation and how to use the data. An in-depth weather school is held annually. FAWN has developed a youth training curriculum. In FY2007-2008 FAWN will enhance its urban program and add new weather tools.

Costs

The FY2008 budget includes \$100,000 for the FAWN project. Half this funding (\$50,000) will come from general revenue and the remaining amount will be divided evenly between the eight Basin Boards with each budgeting \$6,250.

Additional Information

The Florida Automated Weather Network (FAWN) has been a successful, on-going, multi Agency (IFAS, FDAC, SFWMD, SJRWMD, and Industry) project with about a \$500,000 annual budget. They are asking for continued funding in FY2007 and SFWMD has already agreed to provide \$100,000. The other cooperators have indicated that they will continue contributing to FAWN. FAWN's weather data has been used by local Emergency Management personal to supplement the District's and other sources' climatic data. The project was first funded by the Peace River Basin Board and later expanded to the Manasota Basin Board. This proposal is to expand the project into the Hillsborough River, Alafia and Withlacoochee Basin Boards. FAWN has recently received new commitments for additional funds from FDACS, SFWMD and SJRWMD. FAWN was created in 1997 with a legislative appropriation to the University of Florida, Institute of Food and Agricultural Sciences (UF/IFAS). These funds were used to create infrastructure and to establish 11 weather sites that were incorporated with a small UF/IFAS network of five sites in Central Florida. Over the next few years there is a plan to expand FAWN's network to 33 sites. In 2002 additional funding was obtained from the Florida Division of Emergency Management to complete the system and in 2003 the Peace River Basin Board recognized the significance of FAWN and provided a \$5,000 grant. A year later the Peace River and the Manasota Basin Boards entered into a three-year agreement to provide FAWN with \$15,000 per year. These funds were to help continue FAWN's data collection efforts and to expand the program's educational components. That same year FDACS, SJRWMD and SFWMD approved funds for FAWN. Currently there are 10 FAWN sites within the District located at: Arcadia, Balm, Bradenton, Bronson, Brooksville, Dover, Frostproof, Lake Alfred, Ona and Sebring. In addition there are several sites surrounding the District that provide useful information to the citizens of the District. Current and historical climatic data from these sites, and FAWN irrigation tools, can be accessed on the web at: <http://fawn.ifas.ufl.edu/>. The FAWN program was developed to provide real time weather information to help Florida citizens make informed weather related decisions. This information is used to help conserve water and protect Florida's natural systems. Irrigators use FAWN data to help determine when and how much to water. Also, FAWN data is used to assist individuals to determine when to turn off irrigation systems used for cold protection. Urban and agricultural chemical applicators use FAWN to help make decisions relative to the application of chemicals and fertilizer. FAWN has been expanded to provide on-line water/irrigation management tools that require weather inputs. Examples of these tools include insect and disease control, cold protection, irrigation, nutrient management and many more. The District's Agricultural Advisory Committee has expressed their support for the FAWN program. In addition to the current tools, FAWN is working with University of Florida scientists to develop others. Some of the studies already funded by the District will be used to enhance the FAWN program. For example, the Wet Bulb Irrigation Cut Off management tool has been able to allow strawberry, citrus, fern, vegetable, ornamental growers and home owners determine when it is safe to shut off irrigation systems used for cold protection.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	37,500	50,000	50,000	0	137,500
011 Alafia River Basin	4,687	6,250	6,250	0	17,187
013 Hillsborough River Basin	4,688	6,250	6,250	0	17,188
014 Northwest Hillsborough Basin	4,687	6,250	6,250	0	17,187
015 Coastal Rivers Basin	4,688	6,250	6,250	0	17,188
016 Pinellas-Anclote River Basin	4,687	6,250	6,250	0	17,187
019 Withlacoochee River Basin	4,688	6,250	6,250	0	17,188
020 Peace River Basin	19,687	6,250	6,250	0	32,187
021 Manasota Basin	19,688	6,250	6,250	0	32,188
			Total		\$305,000

Critical Project Milestones	Projected	Amended	Actual
P.O. to Purchasing	10/1/03		10/1/03
Notice to Proceed	10/1/03		10/1/03
Basin Board Notification	11/1/03		10/10/03
Governing Board Notification	11/1/03		10/1/03
Year 1. Data Collection	12/1/04		11/14/04
Year 2. Data Collection	12/1/05		12/1/05
Year 3. Data Collection	12/1/06		12/1/06
Completion Report	1/1/07		
FY07 Governing Board Notification	1/2/07		1/1/07
Basin Board Notification	1/3/07		1/3/07
FY06 Project Ends	3/1/07		
FY07 Data Collection	12/1/07		
FY07 Completion Report	2/27/08		
FY07 Project Ends	2/28/08		

Status As Of: July 06, 2007

7/6/2007 - Reviewed FY2006 completion report. Hiring new staff. Data collection continuing as planned.

Peace River CWM

Project Type Basin Initiatives
Basin(s) General Fund (District), Peace River
Cooperator(s)
Project Manager SPRINGSTEAD, CHAN
Task Manager(s)
Status Ongoing

Description

The Comprehensive Watershed Management (CWM) initiative has been established to improve the management of water and related natural resources within the Southwest Florida Water Management District. This initiative employs a watershed-based approach to resource management. Staff from a variety of agencies, disciplines and departments make up watershed teams that have been assigned to eleven watersheds in the District. The Draft Peace River Comprehensive Watershed Management Plan describes and documents "present conditions" of the water resources in the District's four Areas of Responsibility (AORs). The Plan represents a significant component of the CWM initiative for this basin. Major programs and processes to which the CWM initiative provides input include cooperative funding; basin initiatives; annual basin planning sessions and budget development; recommending restoration/mitigation/acquisition sites; local government comprehensive plan and amendment review; Development of Regional Impact review; and several others. The Basin's assigned planner is the contact person for this project. Activities and milestones related to the Peace River CWM initiative are routinely updated in the status section below.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	46,629	4,232	4,292	0	55,153
020 Peace River Basin	47,769	4,232	4,292	0	56,293
			Total		\$111,446

Status As Of: June 04, 2007

FY2008 Budget process continues. Project rankings and recommendations are still ongoing. Staff continues to seek out and implement projects related to issues defined by the CWM.

Lake Wales Ridge CWM



Project Type Basin Initiatives
AOR(s) Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s) General Fund (District), Peace River
Cooperator(s)
Project Manager SPRINGSTEAD, CHAN
Task Manager(s)
Status Ongoing

Description

The Comprehensive Watershed Management (CWM) initiative has been established to improve the management of water and related natural resources within the Southwest Florida Water Management District. This initiative employs a watershed-based approach to resource management. Staff from a variety of agencies, disciplines and departments make up watershed teams that have been assigned to eleven watersheds in the District. The Draft Lake Wales Ridge Comprehensive Watershed Management Plan describes and documents "present conditions" of the water resources in the District's four Areas of Responsibility (AORs). The Plan represents a significant component of the CWM initiative for this basin. Major programs and processes to which the CWM initiative provides input include cooperative funding; basin initiatives; annual basin planning sessions and budget development; recommending restoration/mitigation/acquisition sites; local government comprehensive plan and amendment review; Development of Regional Impact review; and several others. The Basin's assigned planner is the contact person for this project. Activities and milestones related to the Lake Wales Ridge CWM initiative are routinely updated in the status section below.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	32,886	4,232	4,292	0	41,410
020 Peace River Basin	29,202	4,232	4,292	0	37,726
			Total		\$79,136

Status As Of: June 04, 2007

FY2008 Budget process, project rankings, and project recommendations are still ongoing. Staff continues to seek out and implement projects related to issues as defined by the CWM.

Peace R. - Historical Land Cover Mapping

Project Type Basin Initiatives
AOR(s) Flood Protection, Natural Systems
Basin(s) Peace River
Cooperator(s)
Project Manager KOLASA, KEITH
Task Manager(s)
Status Ongoing

Description

Considerable alteration of the watersheds in the Peace River Basin has occurred since the early 1900s, which has resulted in major changes to the physical configuration of conveyance channels, lake shorelines, and wetlands. Consequently, functional changes in the Basin's surface water systems have occurred, including the reduction of recharge capability in the upper Basin, the over drainage of lakes and wetlands, the reduction of water volume in storage in lakes and wetlands, and the loss of water quality benefits provided by unimpaired wetlands. To restore and/or retrofit the hydrologic functions of the systems in the Basin, it is critical to have information on the historical conditions that existed in the Basin before large scale alterations took place. This project will provide the historical land cover information for the Peace River and the Lake Wales Ridge basins in the form of maps, tables, and a GIS database for the time period prior to the beginning of significant land and water alterations. The completed product will provide a close approximation of the Basin's condition as it was roughly 100-years ago. The project will result in: (1) an improved, definitive pre-development land cover; (2) documentation of the historical coverages of ponds, lakes, wetlands, and floodplains; and (3) documentation of the locations and extents of streams and creeks; and; (4) historic surface water levels for several of the Basin's lakes. The methodology developed during this project will be transferable to the entire Peace River Basin and to all other basins within the District. The project deliverables will benefit Peace River Basin MFL work on lakes, hydrologic and water quality restoration in the Lake Wales Ridge and Peace River basins, the development and implementation of watershed management plans, SWUCA objectives, and DOT mitigation.

Benefits

This project will provide a GIS database describing the historical land cover and historical hydrologic resources that existed roughly 100 years ago for the Peace River Basin and the Lake Wales Ridge Basin. The information will be used to support efforts in MFLs, SWUCA, and Peace Basin restoration activities. The information is also being applied to Lake Hancock and Peace River MFL recovery projects. The final products are being used by District staff and staff from other agencies, such as by FDEP for the Peace River Cumulative Impact Study.

Costs

The total budget amount for this project is \$412,450, of which all is being funded by the Peace River Basin Board as a Basin Initiative. Due to the large size of the Peace River Basin this project was divided into three phases. Funds in FY2004 (\$159,491) were used to complete the historical land cover database for Highlands County and roughly one half of Polk County. Funds in FY2005 (\$168,902) are being used to complete the second half of Polk County and all of Hardee County. In FY2006 \$19,656 was budgeted for staff salaries only. \$64,400 was budgeted in FY2007 to complete the Desoto County area. The District funding amounts shown in the table below include staff salaries.

Additional Information

Modern day land cover maps are based solely on soils data and depict many areas as altered land or impacted land. This project uses a variety of historical maps and data to interpret the natural land cover that existed prior to disturbance. The data used in this project include the General Land Office Notes (GLOS) from the 1850-60 time period, early military maps and forest surveys, the 1927 soil survey maps, the 1950 soil maps, and early USGS quad maps. The first phase of the project was completed by JEA Consultants. The completed database was made available to all District staff on the District's GIS network. The final product was presented at both the Wetlands Scientist Conference and the ESRI Conference in 2005. The second phase of this project is being completed by HDR Consultants for the western portion of Polk County, all of Hardee County, and a portion of Highlands County.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	348,049	64,400	6,285	0	418,734
			Total		\$418,734

Critical Project Milestones

	Projected	Amended	Actual
1. Phase I			
Advertise RFP	8/29/03		8/29/03
Notice to Proceed/Kick-off meeting	10/29/03		2/16/04

Prepare soils map & vegetation model	1/30/04		4/30/04
Prepare General Land Office Notes (GLOS) database	4/30/04		6/15/04
Correlate GLOS data with soils data	7/15/04		7/30/04
Final pre-development land cover map	2/15/05		3/28/05
Final surface water features map layer	4/15/05		10/30/04
Final report, receipt of all data	6/30/05		6/30/05
Close-out	8/1/05		8/1/05
1. Phase II			
Close-out		8/20/07	
Complete Scope of Work	11/1/04		10/25/04
Contracts Administration Review	11/30/04		11/30/04
Advertise RFP	12/10/04		12/10/04
RFP review and ranking	1/30/05		2/11/05
Contract Negotiations	2/28/05		3/28/05
Contract Approval	3/15/05		5/15/05
Notice to Proceed/Kick-off meeting	3/28/05		6/2/05
Prepare General Land Office Notes (GLOS) database	3/30/06		3/30/06
Prepare soils map & vegetation model	3/30/06		6/15/06
Correlate GLOS data with soils data	3/30/06		8/2/06
Final surface water features map layer	7/30/06		8/2/06
Final hydrography layer	7/30/06	4/20/07	8/2/06
Final pre-development land cover map	11/30/06	6/20/07	4/30/07
Final report, receipt of all data	11/30/06	7/20/07	
1. Phase III			
Complete Scope of Work for Desoto County	3/30/07		5/10/07
1. Phase III			
Execute Agreement with Consultant	6/20/07		
Prepare General Land Office Notes	10/30/07		

Status As Of: July 06, 2007

For the second phase of the project, RFP review and ranking was completed on Feb. 11, 2005 and HDR Engineers and Scientists was selected as the contractor to complete the second phase of the project. Status updates on the first phase of the project are provided in the project history below. The final contract was executed and the Notice to Proceed (NTP) was issued to HDR on June 02, 2005. HDR completed transcribing the General Land Office Surveys (GLOS) notes and completed geocoding 100% of the GLOS notes and maps. A progress meeting was held with HDR on October 18, 2005. A second progress meeting was held on February 3, 2006 to review the draft GLOS data transcriptions. The initial results of this project were presented by HDR at the International Landscape Ecology Conference (21st Annual Symposium) held in San Diego, CA on March 30, 2006. A third progress meeting was held on May 25th to review the final GLOS data and maps. HDR has completed the draft and final hydrography layer which shows the predisturbance waterbodies and wetlands. They have also completed the draft and final soil maps and vegetation model which will determine the pre-disturbance vegetation communities associated with each major soil type. Additional progress and deliverable review meetings were held on August 2, 2006, January 17, 2007, and February 20, 2007. The Consultant has experienced some delays with the producing the final pre-development land cover layer due to inaccuracies with the historical soils maps from 1927. The 1927 soils maps lacked accuracy on boundaries of wetlands, especially along river corridors. The consultant used the historical USGS topo quads in place of the 1927 soils maps. This required many extra hours of staff work but has resulted in a much better final product. A time extension amendment has been processed to provide an additional six months to complete the project and final report. The final GIS layers have been completed and the final report is being written.

Project Type	Basin Initiatives
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	
Project Manager	KOLASA, KEITH
Task Manager(s)	RHINESMITH, PHILIP
Status	Ongoing

Description

The Ridge area has undergone substantial hydrologic alterations since the early 1900's which has resulted in lowered lake levels, deterioration of lake water quality, reduced recharge, and local dewatering of the surficial ground water system. Restoration and retrofit projects to solve these problems to some degree may be undertaken on existing public lands to benefit the region. This project will be conducted in two phases. Phase I will involve matching the water resource-related problems identified in the SWUCA Recovery Strategy, Lake Wales CWM Plan, and the Lake Wales Ridge Screening Project to those public lands in the area which could be utilized for projects to (1) restore lake water quality; (2) reduce water losses from dredged canals; (3) restore the hydrologic function of impacted wetlands, and (4) preserve the recharge capability of uplands. District staff and its consultant will work with other agencies and governments owning land in the area to develop specific projects based on the regional benefits anticipated, their estimated cost, and the potential for non-District funding. A report will be prepared identifying and describing each project, its expected water quality improvement and water conservation benefits, cost, recommended schedule, and strategy for funding. Projects will be ranked with respect to the cost:benefit anticipated. Phase II of the project will involve the preparation of the RFP, design, permitting and construction of projects identified from the Phase I report. Phase II will be carried out under separate projects such as the Jack Creek Hydrologic and Wetlands Restoration (SA01). Funding for future phases of this project (implementation) will be determined on a per project basis.

Benefits

The objective of this project is to identify hydrologic restoration opportunities on public lands along the Lake Wales Ridge that will benefit the regional water resources. Hydrologic restoration projects identified in this project will support SWUCA objectives.

Costs

The total budget for the project is \$234,781, of which all is being funded by the Peace River Basin Board as a Basin Initiative. The funding amounts shown in the table below include staff salaries.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	231,897	2,912	0	0	234,809
			Total		\$234,809

Critical Project Milestones**1. Consultant Agreement Development and Execution**

	Projected	Amended	Actual
RFP Development	8/7/03		8/7/03
Advertise RFP	10/30/03		11/7/03
Consultant Selection	12/31/03		1/18/03
Contract Development	2/15/04		2/12/04
Notice to Proceed and Kick-off Meeting	3/1/04		4/6/04

2. Critical Project Milestones

Assessment of Conservation Tracts in Polk County	6/30/04	8/6/06	10/15/06
Evaluation of District Study Area (Stuart Tract)	7/30/04		7/20/04
Draft/Final report (Stuart Tract)	7/30/04		8/30/04
Assessment of Conservation Tracts in Highlands County	8/30/04	8/6/06	11/6/06
Overflight of Polk County for Supporting Aerial Photos	4/30/05	2/15/06	1/24/05
Overflight of Highlands County	4/30/05	2/15/06	2/15/06
Draft report for Public Lands in Polk County	5/30/05	9/5/06	10/10/06
Draft report for Public Lands in Highlands County	5/30/05	9/6/06	10/10/06
Final reports for Polk County Lands	7/30/05	10/6/06	11/6/06
Final report for Public Lands in Highlands County	7/30/05	10/6/06	11/6/06

3. Close Out

Consultant Evaluation	12/6/05	1/20/07	2/20/07
Contract Termination	12/6/05	11/6/06	11/6/06

Status As Of: May 02, 2007

The evaluation of the Stuart Tract located within the District's Bowlegs Creek Land Acquisition Study Area has been completed and a final report has been produced. This tract (roughly 4000 acres bordering Crooked Lake) was assessed based on criteria of the Florida Forever program for its potential to be acquired for preservation. A draft report for this tract was submitted to the District for review on Aug. 3, 2004 and a final draft was submitted on Sept. 2, 2004. The consultant has completed their assessments of lands in Polk County and Highlands County and completed a priority ranking of tracts needing restoration. The priority tracts include the District's Jack Creek Tract and the Highlands Hammock State Park (HHSP) managed by FDEP. An overflight of these tracts was completed on Nov. 15, 2004 and on Jan. 24, 2005. A draft report was completed for the Polk County tracts in Aug. 2005. This completion of the final reports and conceptual design plans encountered long delays. The consultant's first project manager became seriously ill. Due to the severity of his illness, the project manager was not able to communicate with the consultant's new project manager. District staff and the new consultant project manager met in Oct. 2005 and Dec. 2005 to go over each task listed in the contract scope of work and project needs. Due to these delays, a time extension amendment was prepared and was approved on Jan. 4, 2006. A meeting was held on April 27, 2006 at the Jack Creek tract and HHSP to review the restoration alternatives. Due to the delays associated with the Consultant's former project manager's illness and the difficulties restarting the project, the Consultant requested a second amendment to allow more time to complete the narrative reports and conceptual design plans. The second amendment was approved by both the District and the Consultant. The milestone dates listed above in the amended column show the revised project deadlines. As of Nov. 2006, all of the final reports for this project have been completed. This project has been closed out. The completed restoration conceptual plans developed under this project will move forward into design, permitting, and construction phases under projects SA01 and L649.

Project Type Basin Initiatives
AOR(s) Water Supply
Basin(s) Peace River
Cooperator(s) United States Geological Survey
Project Manager BEACH, MICHAEL
Task Manager(s)
Status Ongoing

Description

The project objectives are to 1) provide an assessment of current hydrologic and water-quality characteristics of the Charlie Creek watershed in the Peace River basin, and 2) produce a detailed water budget for the watershed during the study period. The project will include field reconnaissance, implementation of new data sites, seepage runs, and data collection and analysis.

Benefits

Results from this work will support and constrain future modeling efforts in this watershed, a principal sub-basin of the Peace River basin.

Costs

The cost for the project is \$696,000 shared equally by the USGS and the Peace River Basin Board. The project began in FY2004 and will be completed in FY2007. District funding for each year is \$62,000, \$120,000, \$122,000, and \$44,000, chronologically by fiscal year.

Additional Information

Charlie Creek watershed at 330 square miles is a principal sub-basin of the Peace River basin. Agriculture is the principal land use, but the watershed is the least developed in the Peace River basin. Flows in the upper Peace River have been affected by several factors, including: reduced ground-water baseflow due to lowering of the potentiometric surface of the Upper Floridan aquifer; altered surface drainage due to land surface alterations and development activities; and changes in rainfall. It has become increasingly important to develop a better understanding of the factors that affect river flows to provide policy makers with technically sound management alternatives. As part of the United States Geological Survey (USGS)/ SWFWMD cooperative studies program, this project will evaluate factors influencing flows in the Charlie Creek watershed.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	314,489	49,674	2,379	0	366,542
Project Funds Not Budgeted by the District					
USGS	304,000	44,000	0	0	348,000
			Total		\$714,542

Critical Project Milestones	Projected	Amended	Actual
Contract approved by USGS			5/7/04
Monitor Network Installation Complete			6/7/04
Data Collection Complete			3/1/06

Status As Of: February 23, 2007

Analyses for the project is continuing and report writing has begun. The project is scheduled to be completed by October of this year.

Project Type Basin Initiatives
AOR(s) Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s)
Project Manager KOLASA, KEITH
Task Manager(s)
Status Ongoing

Description

The lakes along the Lake Wales Ridge make up a unique and valuable water resource. Many of the lakes have good to excellent water quality; however, these lakes are showing signs of declining water quality. The results of the Ridge Lakes Screening Procedure (B102) completed by District staff revealed that approximately 40 lakes receive direct untreated stormwater discharges from urban land uses. This project will develop conceptual stormwater retrofit plans for specific problematic stormwater inflows that were identified during the Ridge Lakes Screening and will serve as the basis to implement water quality enhancement of this lake system. This project will begin with lakes located along the Ridge in Polk County and then end with lakes in Highlands County. Conceptual plans will be developed for approximately 20 sites on 11 Ridge lakes.

Benefits

This project will provide conceptual design plans and costs to complete stormwater retrofits. The completed design plans and costs will be used to develop cooperative projects with other local governments and agencies to begin implementation of these projects which will protect and enhance the water quality of several lakes along the Lake Wales Ridge.

Costs

A total of \$170,000 was budgeted by the Peace River Basin Board in FY2005 to complete conceptual retrofit plans for 11 Ridge lakes. The final design, permitting, and construction will be carried out under project B217.

Additional Information

Information collected during the development of the conceptual plans will include: (1) existing land availability such as through FDOT rights-of-ways/drainage easement and other public lands, (2) land availability documentation such as real estate plat maps, and FDOT drainage maps, (3) lands needing to be acquired and their respective assessed value, (4) willingness of the landowner to sell or provide a land license agreement, (5) total construction costs and cost per acre of treatment, and (6) identification of funding sources and partnering agencies. This information will be used to complete a cost/benefit analysis and a ranking of the proposed retrofits. During the lake screening a number of stormwater discharges were identified as originating from State Highways 27 and 17. District staff have been meeting with FDOT staff to discuss these specific impacts and identify where retrofits could be completed in FDOT rights-of-way. The District consultant hired for this project will work with the District and FDOT to determine the most feasible retrofit solutions and a time schedule to implement projects for these lakes. District staff have also been meeting with the Town of Dundee and have received a very favorable response to developing two cooperative projects.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	190,389	5,359	1,120	0	196,868
			Total		\$196,868

Critical Project Milestones

1. Consultant Agreement Development and Execution

	Projected	Amended	Actual
Consultant Selection	11/10/04		10/10/04
Contract Development	12/30/04		11/24/04
Contracts Administration Review	1/1/05		2/15/05
Negotiate Costs	1/20/05		2/2/05
Contract Execution	1/30/05		3/11/05

2. Work Order 1

	Projected	Amended	Actual
Prepare First Work Order	2/15/05		2/15/05
Execute Work Order and Issue NTP	2/28/05		2/28/05
Consultant Kick-off Meeting	3/28/05		4/14/05
Watershed Evaluation for first three lakes	1/5/06		10/24/05
BMP Alternative Analysis & Conceptual Plans	2/5/06		2/20/06

3. Work Order 2

	Projected	Amended	Actual
Execute Second Work Order and Issue NTP	3/15/06		4/17/06
Watershed Evaluation for next five lakes	5/15/06	10/15/06	10/12/06

Ridge Lakes SW Improvement - BMP Eval

BMP Alternative Analysis & Conceptual Plans	7/15/06	11/11/06	1/7/07
4. Work Order 3			
Execute Third Work Order and Issue NTP	9/15/06	3/15/07	6/30/07
Watershed Evaluation for last 2 lakes	2/15/07	11/30/07	
BMP Alternative Analysis & Conceptual Plans	4/15/07	12/30/07	
5. Project Development			
Coordination with Regulatory Staff	7/15/07	12/30/07	
Develop Cooperative Agreements with Local Governments and FDOT	10/15/07	12/30/07	
6. Close Out			
Contract Termination	9/11/06	1/20/08	

Status As Of: July 06, 2007

The first work order for this project has been completed. The work order provided conceptual design plans for stormwater retrofits for Lake Menzie, Marie, and Gordon in Dundee, Polk County. Work on the first order took place between April 2005 and Feb. 2006. District staff met with FDOT officials on July 13, 2005 to discuss joint funding of the stormwater retrofit projects for Lake Marie and Menzie to be carried out under project B217. District staff also met with the City Manager of the Town of Dundee on July 28, 2005 to determine how the Town will be able to contribute to the project. The City agreed to provide the land to construct the retrofits. The second work order was executed on May 24, 2006. The second work order was for five lakes located in Highlands County. District and Consultant staff completed a site visit to each of these five lakes on May 17, 2006. The Consultant recently completed the conceptual design plans and associated reports for the five lakes included in the second work order on January 7, 2007. District staff met with staff from the Town of Lake Placid and Highlands County on Nov. 6, 2006 and Dec. 7, 2006 to discuss developing a cooperative funding project to begin the stormwater retrofit for one of the lakes included in the 2nd work order, Lake Clay. The County and City submitted an FY2008 cooperative funding request for this project on Lake Clay. The project number for this new project is L897. The third work order for the last group of lakes is underway. District and Consultant staff completed a preliminary site visit to the stormwater systems on these lakes on Feb. 21, 2007. During the course of this project three time extensions have been needed. The first time extension amendment was executed on Aug. 4, 2006. The second time extension was approved on Jan. 19, 2007 and extended the project contract termination date to Aug. 2007. The third and final time extension is in the approval process and will extend the project completion to December 2007.

Lake Jackson MFL Recovery Feasibility Study

Project Type	Basin Initiatives
AOR(s)	Water Supply, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Highlands County
Project Manager	KOLASA, KEITH
Task Manager(s)	ARNOLD, DAVE
Status	Ongoing

Description

This is a multi-year project funded as a Basin Initiative to develop lake level recovery strategies for Lakes Jackson and Little Jackson consistent with the Southern Water Use Caution Area (SWUCA) recovery plan. The state's water management districts are statutorily charged with the establishment of minimum flows and levels for the protection of Florida's water resources. Several lakes in Highlands County have been identified for minimum levels adoption in the Southwest Florida Water Management District's (District) Priority List and Schedule for the Establishment of Minimum Flows and Levels. District staff have developed proposed minimum levels for lakes Jackson and Little Jackson located within the Josephine Creek Watershed. The proposed minimum levels incorporate information on the effects of water-use, rainfall and structural alterations (e.g., modifications to lake outlets) on lake stage. According to information in the SWUCA recovery plan, the proposed minimum levels for these lakes are not being met. The first phase of the project, funded in FY2005, completed an evaluation of the watershed, completed data development needed to run the hydrologic model used to evaluate recovery options, and provided a preliminary cost of potential recovery alternatives. The second phase, funded in FY2006 and FY2007 will complete a water budget model for these lakes so that potential gains in water level can be quantified and will complete an integrated hydrologic model for the entire watershed and will further refine recovery alternatives and costs. Highlands County will be assisting with this phase of the project and is contributing \$30,000 towards the project. The third phase funded in FY2007

Benefits

This project will identify lake level recovery strategies for Lake Jackson and Little Lake Jackson and will implement these strategies if determined to be feasible. Minimum Flows and Levels (MFLs) have been established on these two lakes and recovery strategies are needed to maintain these levels if determined to be feasible. The recovery alternatives identified under this project may be applicable to other lakes with established MFLs.

Costs

The total project budget is \$420,000. FY2005 funds (\$80,000) were provided by the Peace River Basin Board to complete the initial evaluation of the watershed and the preliminary alternative cost estimate. For FY2006, \$130,000 is included in the Basin's budget with a revenue agreement from Highlands County for \$30,000. The FY2006 funds are being used to complete the water budget model. Funding for FY2006 includes \$43,330 from the Peace River Basin, \$58,824 from the State Surface Water Restoration fund, and \$30,000 from Highlands County as revenue. FY2007 funds (\$210,000) are being used to complete the integrated surface water/groundwater model and apply the hydrologic model. Funding for FY2007 includes \$105,000 from the State Surface Water Restoration Fund, and \$117,952 provided by the Peace River Basin Board. Future funding will be requested to implement the lake level recovery alternatives if determined to be feasible.

Additional Information

The specific elements of the District's Watershed Management Program Guidelines and Specifications that will be completed during this project are: (1) Review of aerial contour maps and acquisition of new information on an as needed basis; (2) Digitizing available contour information from aerial maps and review of as-built plans and other information to document existing conditions of the Jackson-Josephine Creek watershed; (3) Development of digital terrain models for existing conditions topography; (4) Compilation of existing reports, survey information, etc. to document existing conditions; (5) Map historic floodplain that will be restored along Jackson-Josephine Creek between Lake Jackson and Lake Josephine and extent of water staging areas; (6) Compilation of regional rainfall, groundwater level, surface water level, water-use, and water quality data; (7) Assessment of Floridan Aquifer level data, groundwater modeling results, and, if needed, application of groundwater models to determine existing conditions; (8) Develop a GIS database for watershed modeling; (9) Formulation of the approach to watershed modeling; (10) Limited survey to update existing information, and; (11) determination of probable or planning level costs of recovery options.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	137,515	117,924	15,112	0	270,551
District Budgeted - Outside Revenue					
Highlands Co-Lks Jackson/Ltl Jackson Rvry (B198)	30,000	0	0	0	30,000
Water Protection & Sust T. F. (Surface Wtr Rstr)	58,824	105,000	0	0	163,824

		Total	\$464,375
Critical Project Milestones	Projected	Amended	Actual
1. Phase I			
Consultant Selection Process	10/15/04		10/20/04
Draft Agreement and Scope of Work	10/20/04		10/25/04
Contracts Adm Review	11/25/04		11/23/04
Complete Work Order	5/20/05		6/30/05
NTP and Kick-off Meeting	5/30/05		7/11/05
Data Compilation	9/20/05		1/20/06
Digitize 1 foot contours	10/20/05		10/15/06
Data Summaries	4/20/06		4/25/06
Map Water Staging Areas	5/20/06		6/20/06
GIS Database Development	6/15/06		12/10/06
Formulation of Approach to Watershed Modeling	10/25/06		6/20/06
Determination of Planning Level Costs	12/25/06		12/10/06
2. Phase II			
Develop Rev Agreement with Highlands County	3/10/06		4/20/06
Contracts Adm Review	4/10/06		5/25/06
Draft Consultant Agreement and Scope of Work	4/20/06		6/20/06
Contracts Adm Review	5/20/06		7/15/06
Execute Agreement	7/10/06		10/16/06
Execute Rev Agreement with Highlands County	7/10/06		10/16/06
Complete Work Order	12/10/06		
Summary of Water Quality and Water Storage Benefits	4/10/07		
NTP and Kick-off Meeting	4/10/07		
Watershed Evaluation of Additional Basins	12/10/07		
Develop Water Budget	2/25/08		

Status As Of: July 06, 2007

Phase I has been completed. The individual tasks completed for this first phase are outlined in the Additional Info section above. Phase I concluded that recovery alternatives would potentially help to achieve raising the lake level by nearly one foot during normal hydrologic conditions and therefore would increase the frequency that the lake meets adopted MFL. The recommended recovery alternatives focus on the installation of new control structures along the Jackson-Josephine canal, between Structure 3 and Structure 4. Two alternatives were proposed with the first alternative including two structures just downstream of Structure 2, and the second alternative including a third further downstream. The estimated cost of each structure is roughly \$1.6 million. Little land acquisition is anticipated for the first 2 structures; however, significant land acquisition is anticipated for the third structure making the cost of all three structures (2nd alternative) significantly higher. This project is now in its second phase. The second phase of this project will focus on developing the hydrological model for this watershed which is needed to predict the duration that the MFL may be achieved and also determine flooding risks. An agreement with the Consultant to develop the hydrologic model was approved on October 16, 2006. A revenue agreement with Highlands County was approved in August 2006 by Highlands County and executed by the District in October 2006. The second phase of this project has been temporarily put on hold for the last three months, pending a review of the current MFL compliance criteria for Lake Jackson and Little Lake Jackson. An analyses is being conducted to re-evaluate the existing MFL set for these two lakes.

Cold/Chill Protection of Tropical Plants in the Nursery

Project Type Basin Initiatives
AOR(s) Water Supply
Basin(s) Peace River, Manasota
Cooperator(s) University of Florida
Project Manager COHEN, RON
Task Manager(s)
Status Ongoing

Description

Tropical plant production is a multi-million dollar industry in Florida. It includes plants for landscaping, in-door houseplants and food crops. Tropical plants are chill sensitive at temperatures below 50 F and have no freeze hardiness. Growers use irrigation rates of up to 20,000 gallons per hour for each acre of production. This project will determine the chill sensitivity of selected ornamental crops; enumerating different water-based cold protection methods presently being used in the ornamental plant industry; and determining irrigation system and management factors for potential cold protection efficacy and water savings.

Benefits

Information from this project will be used in the District's conservation and permitting programs. In addition, ornamental producers will use this information to reduce water use and any nutrient loading associated with excess water use. The public can also use this information to protect their investments and reduce water use. The amount of water saved will be a function of the number of acres planted and their water use, which will change annually based on market and climatic conditions.

Costs

This \$160,000 project started in FY2005 and will be funded over 3 budget years. The Peace River and Manasota Basin Boards will each fund \$26,667 in FY2005 and FY2006 and then \$26,666 in FY2007.

Additional Information

Water has been used in Florida for decades to protect tender ornamental crops from chill damage. However, there is little research-based information that details the critical temperature/time interactions that result in damage to specific crops. In addition, water-based chill protection systems have not been studied to determine system efficiencies and develop optimum water-saving designs and management practices. Having knowledge of crop chill tolerance and irrigation system effectiveness would help in the development of improved management and system designs to conserve water during cold weather. The project's objectives include determining the chill sensitivity of selected ornamental crops; enumerating different water-based cold protection methods presently being used in the ornamental plant industry; and determining irrigation system and management factors for potential cold protection efficacy and water savings.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	53,334	26,666	0	0	80,000
021 Manasota Basin	53,334	26,666	0	0	80,000
			Total		\$160,000

Critical Project Milestones	Projected	Amended	Actual
Agreement to Contracts	6/1/05		6/1/05
Agreement to Cooperator	8/1/05		8/1/05
District Executes Agreement	12/1/05		12/1/05
Notice to Proceed	12/1/05		12/1/05
Basin Board Notification	1/1/06		1/1/06
Governing Board Notification	2/1/06		2/1/06
Year 1. Data Collection	12/1/06		12/31/06
Year 2. Data Collection	12/1/07		
Growers Event	11/1/08		
Completion Report	11/1/08		
Project Ends	3/1/09		

Status As Of: July 06, 2007

Negotiating agreement and developing final task deliverable schedule. 12/20/2004 - Waiting for final scope of work to process agreement. 1/21/05 - Received scope of work, Agreement is being processed by Contracts. 3/18/2008 - Waiting for contact to be executed. 5/2/2005 - Waiting for contact to be executed. 7/1/2005 - Winter cold protection project

Cold/Chill Protection of Tropical Plants in the Nursery

dormant in summer. 9/1/2005 - Winter cold protection project dormant in summer. 11/4/2005 - IFAS to executes Agreement. 11/15/2005 - Mailed Notice to Proceed. 1/11/2006 - Data collection continuing as planned. 3/1/2006 - Data collection continuing as planned. 4/17/2006 - Project dormant. 6/17/2006 - Project dormant. 8/15/2006 - Project dormant until next Fall/Winter. 10/12/2006 - Project dormant until next Fall/Winter. 12/4/2006 - getting ready to restart data collection. 2/28/2007 - Ending data collection. Mild winter not too much data to collect. 7/6/2007 - Project dormant until next Fall/Winter.

Maintenance of Watershed Parameters & Models

Project Type	Basin Initiatives
AOR(s)	Flood Protection, Water Quality, Natural Systems
Basin(s)	General Fund (District), Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	Pasco County, Polk County, Hernando County
Project Manager	DUNHAM, STEPHANIE
Task Manager(s)	TURNER, DAWN, MAYER, RICHARD, ALTMAN, GENE
Status	Proposed

Description

This is a basin initiative to fund the Maintenance of Watershed Parameters and Models element of the District's Watershed Management Program (WMP). This process will be applied to watersheds where the parameters and model(s) were developed or updated based on the District's Guidelines and Specifications (G&S) and where parameters from Environmental Resource Permitting (ERP) submittals can be converted to the District's GIS system until a model is developed. Funding will be required each year to continue maintenance. With proposed FY2008 funding the work of capturing watershed parameter changes resulting from approved ERPs will continue throughout the District. In addition, FY2008 funding will support capturing watershed parameter changes due to previous District aerial topographic mapping projects, performing public outreach for ongoing Watershed Management Plans that has been encouraged by the Governing Board, and revising the watershed parameters and model(s) based on information obtained during the public review and comment period that is deemed best available.

Benefits

A WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed assists local governments with their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. In addition, the information provides the District with the best available information to evaluate adverse impacts and mitigation of floodplain impacts for proposed ERPs. The continuous maintenance of watershed parameters in the GIS database as ERP permits are approved and new information is provided to the District through either aerial topographic mapping and its public review and comment period will provide the most up to date information about the watershed. If a watershed model has not been developed, the maintenance of parameters in the GIS processes the information in a format that will save time and funding when the watershed is modeled.

Costs

In FY2005, the Governing Board contributed \$80,000 and each Basin Board contributed an additional \$10,000 each to support the development of the District's maintenance process. The maintenance budget for FY2006 is \$848,000, of which the District's share is \$808,000. Hernando and Polk Counties contributed \$20,000 each in FY2006 for maintenance within their jurisdiction. The maintenance budget for FY2007 is \$1,094,200, the District's share is \$924,200. Hernando County (\$25,000), Pasco County (\$125,000) and Polk County (\$20,000) are contributing the indicated funding in FY2007 for maintenance. An additional \$75,000 in FY2007 funds budgeted by the Coastal Rivers Basin Board for Spring Hill Lakes Management Plan (L775) has been transferred to this project after the Basin Board approved Hernando County's request to use these funds to perform maintenance based on percolation information collected from ERPs and Hernando County. The proposed maintenance budget for FY2008 is approximately \$2.167 million, of which the District's share is approximately \$1.597 million. The District's share is split between the Governing Board (\$597,250), Alafia River Basin (\$61,500), Hillsborough River Basin (\$253,200), Northwest Hillsborough Basin (\$11,900), Coastal Rivers Basin (\$606,550), Pinellas-Anclote River Basin (\$64,800), Withlacoochee River Basin (\$298,300), Peace River Basin (\$143,600), and Manasota Basin (\$130,150). Hernando, Pasco, and Polk Counties will contribute an additional \$300,000, \$250,000, and \$20,000 respectively for maintenance within their jurisdictions. The budget is based on the projected number of approved ERP permits and the average development area within each Basin, except for the Hernando County portions of Coastal Rivers and Withlacoochee River Basins where the total \$600,000 cooperative funding distribution is based on the percent area. As parameter and model maintenance occurs in a Basin, the project budget and scope may require refinement based on the information gathered. Future funding to continue maintenance has been estimated for through 2011. The projected District annual funding amount ranges from \$1,365,000 to \$1,889,000. The District funding amounts shown in the table include staff salaries.

Additional Information

A WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. After the Topographic Information, Watershed Evaluation and Management Plan elements are completed, the watershed parameters and models require continuous maintenance to simulate the watershed's characteristics as the land form changes. The watershed's parameters change with the rapid growth being experienced in the District. If continued maintenance of the models is not performed, the watershed

Maintenance of Watershed Parameters & Models

parameters and model will no longer represent the system. This limits their value in the areas of ERP and flood protection programs. For FY2005, the District managed this project by issuing work orders for the tasks needed to develop the maintenance process, and then by monitoring the efforts. FY2006 funds will be used to begin implementing the maintenance process throughout the District in watersheds with ongoing or completed Watershed Management Plans. For FY2007 this effort will be continued District wide for all watershed where ERPs are approved. Both Hernando County and Polk County contributed funds in FY2006 and FY2007 for maintenance in their jurisdictions. In addition, Pasco County contributed funds in FY2007 for maintenance within their jurisdiction. A cooperative funding revenue agreement will be developed with each community contributing funds towards maintenance. The District will manage the project and enter into purchase orders and agreements to accomplish project tasks. Future funding will be required each fiscal year to continue maintenance of watershed parameters and models. In the future those local governments with the technical abilities to perform the maintenance activities will be encouraged to manage this effort. The District will provide funding assistance to communities that can and those that cannot provide matching funds. Matching funds will be requested from the Federal Emergency Management Agency (FEMA) for this basin initiative. Failure to provide ongoing maintenance will diminish the return on the investment the District has made in their respective Watershed Management Plans.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	511,922	441,574	598,009	2,529,900	4,081,405
011 Alafia River Basin	46,149	38,348	59,465	270,750	414,712
013 Hillsborough River Basin	73,149	98,348	143,865	261,850	577,212
014 Northwest Hillsborough Basin	38,357	26,148	12,065	42,200	118,770
015 Coastal Rivers Basin	31,044	59,853	310,036	236,900	637,833
016 Pinellas-Anclote River Basin	55,148	58,148	43,565	104,150	261,011
019 Withlacoochee River Basin	57,299	67,326	179,098	263,000	566,723
020 Peace River Basin	85,486	48,348	131,365	604,950	870,149
021 Manasota Basin	114,557	101,148	130,315	551,600	897,620
District Budgeted - Outside Revenue					
Hernando Co - Maint of W/S Para & Models (B206)	20,000	25,000	300,000	0	345,000
Pasco Co - Maint of W/S Para & Models (B206)	0	125,000	250,000	0	375,000
Polk Co - Maint of W/S Para & Models (B206)	20,000	20,000	20,000	0	60,000
			Total		\$9,205,435

Critical Project Milestones

1. Critical Project Milestones

Recognition of District, Basin Board, & Governing Board on reports

2. FY2005 Consultant Services Agreement (URS)

	Projected	Amended	Actual
Draft Agreement to Management Services	3/14/05		4/21/05
Draft Agreement returned from Management Services	4/4/05		5/23/05
Contract Execution	5/31/05		6/6/05
Notice to Proceed	5/31/05		6/6/05
Maintenance of Watershed Parameters and Models Planning	7/21/06	4/30/07	3/22/06
Contract Termination	7/21/06	5/31/07	5/31/07

3. FY2006 Consultant Services Agreements

	Projected	Amended	Actual
Draft Agreement to Management Services	6/30/06		8/4/06
Draft Agreements returned from Management Services	7/17/06		8/24/06
Ten (10) Consultant Agreements Execution	9/30/06		11/15/06
First Amendment to Management Services	4/16/07		4/18/07
First Amendment Execution	6/19/07		
Contract Termination	10/31/08	5/31/11	

4. FY2006 Hernando County Maintenance

	Projected	Amended	Actual
Cooperator Contract Expiration			
Draft Agreement to Management Services	3/31/05		3/25/05
Draft Agreement returned from Management Services	4/15/05		4/20/05
Contract sent to County for signature	8/20/06		8/20/06
Cooperator Contract Executed	10/31/08		

5. FY2006 Polk County Maintenance

	Projected	Amended	Actual
Draft Agreement to Management Services	8/9/05		8/9/05
Draft Agreement returned from Management Services	8/23/05		8/23/05

Maintenance of Watershed Parameters & Models

Contract sent to County for signature	8/25/05	8/25/05
Contract Execution	10/31/05	12/2/05
Contract Termination	6/30/09	
6. FY2007 Consultant Services Agreements		
Draft Agreements to Management Services	3/12/07	4/17/07
Draft Agreements returned from Management Services	5/22/07	5/15/07
Consultant Agreements Execution	6/19/07	
Notice to Proceed to Consultants	7/1/07	
Contract Termination	5/31/11	
7. FY2007 Hernando County Maintenance		
Draft Agreement to Management Services	10/18/06	
Draft Agreement returned from Management Services	10/27/06	
Contract sent to County for signature	11/15/06	
Cooperator Contract Executed	12/30/06	
Cooperator Contract Expiration	10/31/10	
8. FY2007 Pasco County Maintenance		
Draft Agreement to Management Services		
Draft Agreement returned from Management Services		
Contract sent to County for signature		
Contract Execution		
Contract Termination		
9. FY2007 Polk County Maintenance		
Draft Agreement to Management Services		
Draft Agreement returned from Management Services		
Contract sent to County for signature		
Contract Execution		
Contract Termination		

Status As Of: July 06, 2007

FY2005: The consultant services agreement with URS Corporation Southern was executed on June 6, 2005. Notice to proceed was issued on the same date. Work Order #1 has been developed to investigate the current data (type, quality, quantity, etc.) entering the District through ERP and to develop a proposed work flow to maintain the watershed parameters and models as permits are approved. A kick-off meeting with the consultant team and District staff was held on June 14th to introduce and plan the project with all departments that will be involved, including: Technical Services, Legal, and Resource Management. The final report has been accepted. Remaining funds are being used to develop presentation and documentation of an example project to be distributed to cooperators, FEMA, and other District WMP consultants who will be performing maintenance beginning with FY2006 funds. Work Order #2 has been executed to document the maintenance process step-by-step. The consultant has completed the example maintenance project along with accompanying documentation and presentation. FY2006 : Staff has developed consultant services agreements with ten (10) WMP consultants to begin maintenance of watershed parameters and models. Maintenance efforts will first be directed at completed and ongoing Watershed Management Plans. The District's consultants who originally prepared the Watershed Management Plans will be tasked with maintenance of their respective watershed(s). Work orders will be issued as project(s) with approved ERP(s) are identified. Basin Board funding will only be used for maintenance activities within the Basin. Consulting services agreements have been executed with all 10 consultants including: Ardaman; Ayres & Associates; BCI; Dyer Riddle Mills & Precourt; Jones Edmunds; Keith Parsons; Post Buckley Schuh & Jernigan; TBE Group; and URS. These agreements are currently being amended to increase the total compensation for approved FY2007 and anticipated FY2008-2011 funding, extends the contract termination date, and revises the scope of work to be consistent with current agreement language. Amendments have been executed with all 10 consultants except Parsons. An additional nine (9) agreements will be executed with the remaining consultants approved to perform elements of the District's WMP. Of the nine new agreements, all have been executed except ECT and Watershed Concepts. All 19 consultant services agreements will support District-wide maintenance. Each consultant has been assigned specific watersheds for maintenance. Project managers within the Engineering Sections will be responsible for developing and executing work orders with each of these consultants. Guidelines and specifications are being developed for specific maintenance activities. Hernando Co. Maintenance: Previously performed under Project B705. Fiscal year budgeted funds as follows; FY2005 = \$11,110 , FY2006 = \$40,000, FY2007 = \$50,000 has been budgeted for continued maintenance of the County's WMPs. The draft agreement was transmitted to the County on 10/26/2006. Polk Co. Maintenance: Previously performed under Project B723. The Cooperative Funding Agreement with Polk County was executed on December 2, 2005. A total of \$80,000 has been encumbered (\$40,000 in FY2006, and \$40,000 in FY2007) for continued maintenance of Polk County's WMPs. Work Orders have been issued for maintenance of the Gator Creek and Itchepackesassa Creek watershed parameters and models. Pasco Co. Maintenance: The cooperative funding agreement is being routed for approval.

Peace Creek Canal - Maintenance Assessment

Project Type Basin Initiatives
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) Polk County
Project Manager WALKER, LARRY
Task Manager(s)
Status Ongoing

Description

This is a project to perform a Maintenance Evaluation within the Watershed Evaluation element of the District's Watershed Management Program (WMP) for the Peace Creek Canal Watershed, located in Polk County. The Peace Creek Canal watershed evaluation conducted a field investigation of 34 miles of the Peace Creek canal system, completed an assessment of the immediate and operational maintenance needs with estimated costs, and prepared a written report. The report is being used to identify maintenance activities to reduce the potential for flooding and repair damage to the conveyance way.

Benefits

The Peace Creek Canal Maintenance Assessment project was given a high priority because the repetitive flooding of several properties in the area and the water quality issues with this area discharging directly to the Peace River. The maintenance assessment provides the necessary information to prioritize the maintenance needs for the Peace Creek Canal and address flood protection issues in the watershed.

Costs

The probable cost for this project is \$50,000 of which the District's share is \$25,000 and the County will contribute \$25,000. When each task is completed the project budget will be refined based on the information developed. The District funding amounts, shown in the table, include staff salaries.

Additional Information

The WMP includes five major elements: Topographic information, Watershed Evaluation, Watershed Management Plan, Implementation of BMPs, and Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies. The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The Peace River Basin Board approved the transfer of funds from the Reserve for Contingencies to this project. A cooperative funding expenditure agreement with the County was developed for this evaluation. Future implementation for the maintenance recommendations would require additional funding. The District will manage the project, with the County's project manager approving any agreements to accomplish project tasks.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	26,766	4,693	0	0	31,459
Project Funds Not Budgeted by the District					
Polk County	25,000	0	0	0	25,000
			Total		\$56,459

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
Recognition of the SWFWMD and Polk Co. will be on the report			
Draft Agreements to Management Services	12/10/04		12/10/04
Draft Agreements to Polk County	12/17/04		12/17/04
Agreements provided to Polk County	12/28/04		12/28/04
Purchase Order for Consultant	1/10/05		1/10/05
Consultant - start Project	1/12/05		1/12/05
Agreement Executed	1/31/05		1/31/05
Draft Report Complete	3/31/05		3/24/05
Final Report Complete	7/10/05		6/22/05

Status As Of: October 16, 2006

The project was approved in December 2004 for funding from the Peace River Basin Board's FY2005 budget. The Cooperative Funding Agreement is being executed and the District will act as lead party. The Consultant was selected and a purchase order has been issued. A kick-off meeting has been held and the Consultant, PBS&J, started work on the study. A draft report was submitted on February 28, 2005 and a revised report submitted on March 24, 2005. The reports

were reviewed by staff and the County. A Final Report was delivered at a meeting on June 22, 2005. Staff is working with the Operations Dept. to implement spraying of the Aquatic Vegetation. The first application was made on November 14, 2005. Staff is working with the Consultant and DEP on permitting of maintenance for areas of the canal. Staff has also met with FDOT several times on maintenance of areas within the Hwy. 60 right-of-ways. An ERP permit application has been submitted to DEP and a site visit with DEP was completed on 8/10/06. The ERP was received September 14, 2006, but staff is still awaiting Corps review.

Ridge Lakes Stormwater Improvement

Project Type	Basin Initiatives
AOR(s)	Flood Protection, Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Florida Department of Transportation, Dundee
Project Manager	KOLASA, KEITH
Task Manager(s)	
Status	Ongoing

Description

This is a multi-year project funded as a Basin Initiative to design, permit, and construct stormwater treatment systems for roughly ten lakes located within the Lake Wales Ridge, Polk and Highlands Counties. Conceptual plans and a cost benefit analysis were funded in FY2005 under project B196. Funds requested in FY2007 are being used to construct the stormwater retrofit for Lake Menzie. The system will treat runoff from the commercial area of Dundee and State Road 17, and will consist of a two swales, two retention basins, and a long infiltration basin (French drain). The completed project will provide water quality enhancement of Lake Menzie. The Town of Dundee will participate in the project by providing the land for the project. The project will be constructed within the Town's park land adjacent to the lake. The Florida Department of Transportation is providing 50 percent of the funding for the project on Lake Menzie. Funds are being requested in FY2008 to complete construction of the stormwater retrofit for the Town of Dundee.

Benefits

This project will protect and enhance the water quality of eleven lakes located within the Lake Wales Ridge chain of lakes by providing stormwater treatment in areas where direct stormwater discharges have caused water quality impacts.

Costs

In FY2006, \$110,000 was budgeted for the design and permitting of stormwater retrofit projects for Lake Menzie and Marie. Of the \$110,000, \$55,000 is provided by FDOT, \$27,500 is provided by the State Surface Water Restoration Fund, and \$27,500 is being provided by the Peace River Basin Board. In FY2007, \$253,000 was budgeted for the construction of the stormwater system at Lake Menzie. Of the \$253,000, \$126,500 is provided by FDOT, \$63,250 is from the State Surface Water Restoration Fund, and \$63,250 is from the Peace River Basin Board. In FY2008, \$50,000 is requested for completing construction of a stormwater retrofit projects in the Town of Dundee. District staff are working with staff from Highlands County and Avon Park to obtain funding from these local governments to assist with these new FY2008 projects.

Additional Information

This project is based on the results of an assessment completed by District staff of the 105 lakes forming the Lake Wales Ridge chain of lakes. The purpose of the assessment was to identify impacts to these lakes and then develop a strategy to address these issues. The results of the Ridge Lakes Screening Project revealed that approximately 26 Ridge lakes receive significant direct untreated stormwater discharges from urban land uses. Many of these lakes act as stormwater catchment basins for the urban land around them. Stormwater remediation was identified as one of the most important action plans needed to protect and enhance the water quality of the Lake Wales Ridge chain of lakes. As the first step of beginning the stormwater remediation, conceptual plans are currently being developed for approximately 20 sites on 10 Ridge lakes under project B196, with funds budgeted in FY2005. Under project B196 a cost/benefit analysis is also being completed. This project (B217) will carry the most cost effective retrofit sites forward into design and permitting stages. The FDOT and the Town of Dundee were identified as cooperative funding partners in FY2006 and agreements were drafted with them to complete projects on two lakes located within the Town of Dundee. Funding for the design and permitting of a stormwater retrofit for Lake Menzie in Dundee was included in the FY2007 budget. Staff will continue to work with other agencies and local governments on funding in future years to resolve stormwater retrofits for the other identified lake. A stormwater retrofit on Lake Clay has been developed as a cooperative project with Highlands County and the Town of Lake Placid for FY2008. This project will be carried out under project L897.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	62,133	80,789	75,548	0	218,470
District Budgeted - Outside Revenue					
FDOT - Ridge Lake SW Improvements (B217)	55,000	126,500	0	0	181,500
Water Protection & Sust T. F. (Surface Wtr Rstr)	60,000	63,250	0	0	123,250
			Total		\$523,220

Critical Project Milestones

1. Contract Development & Execution

Develop agreement with FDOT	Projected	Amended	Actual
	10/30/05		10/30/05

Finalize agreement with FDOT	1/15/06	3/1/07
Develop agreement with Town of Dundee	2/15/06	2/15/06
Finalize agreement with Town of Dundee	3/15/06	4/20/06
2. Consultant Agreement		
Select Consultant	6/15/06	4/26/06
Finalize agreement with Consultant	10/15/06	6/30/07
NTP and Kick-off with Consultant	11/15/06	7/11/07
3. Critical Project Milestones		
Preliminary Design for 1st lake	1/15/08	
Preliminary Design for 2nd lake	1/15/08	
Permit Pre-application meeting	2/15/08	
Final Design and Permitting for 1st lake	4/15/08	
Final Design and Permitting for 2nd lake	4/15/08	
4. Close Out		
Send Invoices to FDOT		
FDOT Revenue Contract Termination		
Consultant Contract Termination		
Town of Dundee Contract Termination		

Status As Of: July 06, 2007

The first stormwater retrofits to take place will be on Lakes Menzie and Marie in the Town of Dundee. District staff met with FDOT on July 13, 2005 to discuss drafting an agreement to begin retrofit projects. District staff also met with officials from the Town of Dundee on July 28, 2005 to determine how they will be able to assist with the project. A contract and scope of work was drafted and sent to FDOT on July 25, 2005. Conceptual plans have been completed for Lakes Marie and Menzie under project B196. FDOT reviewed the agreement and returned their comments. The agreement with FDOT was finalized, routed for internal review, and sent to FDOT for signature in September 2006. Additional revisions were requested by FDOT. Those have been completed and the agreement was sent back to FDOT for approval. FDOT requested a third set of revisions which were completed and sent back to FDOT for approval. FDOT has provided a final draft contract on Oct. 23, 2006 that was reviewed by District Contract staff, approved, and returned to FDOT in early December 2006. The final agreement was approved by FDOT legal on Feb. 21, 2007 and was approved by the FDOT executive staff on March 1, 2007. District staff met with the Town of Dundee on Feb. 27, 2006 to discuss establishing a land agreement to complete the stormwater retrofit project on Lake Menzie. District staff completed a cooperative agreement with the Town to allow the use of their land to construct the stormwater treatment project. The agreement has been approved by both the District and the Town of Dundee. District staff have prepared an agreement with the Consultant who will complete the design, permitting, and construction management for this project. The agreement has passed through internal review. Due to delays with the FDOT revenue agreement, the Consultant agreement schedule was revised to extend the schedule and was resubmitted for approval. The agreement with the District's consultant was executed on July 11, 2007 and a NTP was issued to the consultant to begin the project. A kick-off meeting will take place within the month of August to begin the design and permitting process. District staff have also been developing stormwater retrofit projects on the other targeted Ridge lakes that conceptual design plans have been completed under project B196. District staff met with staff from the Town of Lake Placid and Highlands County on Nov. 6, 2006 to discuss developing stormwater retrofit projects on Lake Clay, McCoy, and June-in-Winter. The County and City submitted an FY2008 cooperative funding request to complete the proposed stormwater retrofit on Lake Clay (L897).

Land Use/Cover Mapping

Project Type	Basin Initiatives
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	General Fund (District), Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	N/A
Project Manager	BRAUNSCH, WILLIAM
Task Manager(s)	
Status	Ongoing

Description

Beginning in 1989, the District initiated a comprehensive land use/cover mapping program. This program results in a Geographic Information System (GIS) data set that delineates over 35 categories of land use/cover (for example: single family residential, pine forest, wetland forest, row crops, citrus). The mapping categories adhere to the Florida Department of Transportation's Florida Land Use and Cover Classification System (FLUCCS) and are compatible with similar efforts at the other water management districts. Until 2005 the program was on a five year update cycle (1989, 1994, 1999, 2004). The rapid development within the District has made the five year update cycle to be inadequate and beginning with the 2005 orthophotos the update was done on an annual basis. The funding proposed here will update the land cover database using the 2007 orthophotos.

Benefits

The land use/cover data collected under this project are widely used to support the District's planning, modeling and land acquisition programs. These data are also among the most commonly requested by external customers. Accurate tracking of acreages and locations of key agricultural land use/cover is a key component of the Southern Water Use Caution Area (SWUCA) Recovery strategy. This information, when coupled with data collected through the District's Water Use Permitting (WUP) process; provide the most accurate means for tracking these significant water uses within the SWUCA. These data also provide an important source of information for monitoring permit compliance. A significant benefit of this program is a consistent, and therefore defensible, estimation of agricultural trends.

Costs

No federal, state or local government currently collects the required land use/cover data in a consistent and comprehensive manner. These data are likewise not available from the private sector. The District does not currently have sufficient in-house staff resources to support this effort and the funding will be used for staff augmentation, consulting services, plotting supplies and fieldwork associated with the project. The FY2006 and FY2007 funding supports three onsite mapping consultants. Based on FY2007 activities it is estimated that two onsite consultants will be required annually to maintain the database. In the past this project was jointly funded by the Governing and Basin Boards. The Governing Board contributed fifty percent of the project cost and the remainder was distributed using a formula that accounted for area and population distributions. Based on an analysis of land use change it has been found that population is no longer an accurate determinant of where the most land use change is occurring and therefore beginning in FY2008 costs will be allocated based upon area only. This will result in decreases in the budget line in smaller Basin Boards such as Pinellas-Anclote River and Northwest Hillsborough and increases in the larger Basin Boards such as Peace River and Withlacoochee River Basin Board. These funding levels will stabilize (with the exception of inflation costs) for future year updates. This will be an annual funding request to support the continued update of the database. This mapping project was previously funded under B089 - Orthophoto and Land Use/Cover Mapping. Beginning in FY2006 these two mapping efforts have been separated to allow for improved cost tracking.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	217,423	190,750	162,928	0	571,101
011 Alafia River Basin	15,331	11,076	11,579	0	37,986
013 Hillsborough River Basin	23,495	16,285	12,454	0	52,234
014 Northwest Hillsborough Basin	11,774	7,571	3,648	0	22,993
015 Coastal Rivers Basin	19,120	13,947	13,466	0	46,533
016 Pinellas-Anclote River Basin	28,681	21,402	6,842	0	56,925
019 Withlacoochee River Basin	26,977	20,394	31,401	0	78,772
020 Peace River Basin	43,607	33,786	46,914	0	124,307
021 Manasota Basin	27,833	21,352	21,126	0	70,311
			Total		\$1,061,162

Critical Project Milestones

1. 2004 District Wide Land Use/Cover Update

Projected

Amended

Actual

Begin District-Wide Land Use/Cover Update	1/30/05		1/17/05
Begin Update for Agricultural Lands in SWUCA	1/30/05		1/17/05
Complete Update Agricultural Lands in SWUCA	5/1/05		5/30/05
Begin Update for Non-Agricultural Lands in SWUCA	5/2/05		6/1/05
Complete Update for Non-Agricultural Lands in SWUCA	12/30/05	1/20/06	2/6/06
Complete District-Wide Land Use/Cover Update	9/30/06	9/1/06	8/31/06
2. FY2005 Annual Update			
Begin Update	9/1/06		9/1/06
Complete Update	4/30/07	6/30/07	7/6/07
3. FY2006 Annual Update			
Begin Update	5/1/07	7/1/07	7/9/07
Complete Update	9/30/07	9/30/07	

Status As Of: July 13, 2007

Photointerpretation and photointerpretation quality assurance/quality control (QA/QC) have been completed District-wide on the 2005 land use/cover update project. Edits on the SWUCA portion of the District-wide 2005 land use/cover update project have been completed. Final QA/QC on the SWUCA portion of the 2005 land use/cover update project have now been completed. Edits on the northern portion of the District are completed. Final QA/QC on the northern portion of the District was completed on July 6. District-wide 2005 land use/cover update project was completed on July 6, 2007

Determine Total Water Budget & Irrig. Req.for Mature Southern Highbush Blueberries

Project Type Basin Initiatives
AOR(s) Water Supply, Water Quality
Basin(s) Alafia River, Hillsborough River, Withlacoochee River, Peace River
Cooperator(s) University of Florida
Project Manager COHEN, RON
Task Manager(s)
Status Ongoing

Description

Blueberry production is a high valued cash crop. The estimated 2003 value of blueberry production in Florida was about \$18.6 million dollars. As the value of other crops decrease more growers have been converting their fields to blueberries. A 1998 report estimated a 400% increase in blueberry acres by the year 2008. This four-budget year research project will quantify how much water a typical blueberry plant needs and will develop irrigation guidelines to help conserve water, reduce potential runoff and water quality impacts.

Benefits

There are about 735Mgals permitted for annual blueberry irrigation. The amount of water saved will be a function of the number of acres planted and their water use, which will change annually based on market and climatic conditions. If we assume a 5% savings from this project it would conserve about 37 Mgals per year.

Costs

This project cost \$153,000 and will be budgeted in four fiscal years. The Alafia, Hillsborough River, Peace River and the Withlacoochee River Basin Boards will each budget \$9,563 annually for this project.

Additional Information

Southern highbush blueberry acreage and production has steadily increased in Florida during the last decade (Williamson and Lyrene, 2005). A recent survey of the industry identified Highlands, Polk, Hillsborough and Lake counties as areas of rapid growth (Williamson and Lyrene, 2000). In fact, Highlands, Polk and Hillsborough counties ranked 2nd, 3rd and 4th respectively, in blueberry acreage in the state. This is in addition to current blueberry production in Marion, Hernando, Pasco and Levy Counties. The following table of blueberry acres and water use comes from the District's regulatory database. * Most individual blueberry operations are below the District's water use permitting thresholds. The individual acres are not large, but the water use is intensive. Recent observations have seen growers converting their existing citrus and strawberry acres to blueberries. Most of the acreage planted during the last decade is grown under a production system known as "pine bark culture" (Williamson and Lyrene, 2000; Williamson and Lyrene, 2005). Beds of pine bark ranging from 3 (single row beds) to 8 (double row beds) feet wide and 6 to 8 inches deep are laid out in rows and plants are set directly in the bark rather than in the soil. Blueberry plants grow rapidly in pine bark but their root systems are restricted to the pine bark layer with some penetration into the underlying soil. An informal grower survey revealed that Florida blueberry growers irrigated once every 2 to 3 days during the growing season and apply 1/2 to 3/4 inch of water at each irrigation event. Frequent irrigation is needed because pine bark beds dry out rapidly due their low water holding capacities and because roots are confined to the pine bark layer. There is a general thought that the amounts of water applied during each irrigation event are in excess of what is needed to irrigate the effective root zone. The project is investigating this hypothesis. In these experiments, IFAS will compare plant growth and yield under "standard" and "reduced" irrigation rates, and determine the total water budget and crop coefficient of mature, bearing, southern highbush blueberry plants in Florida. Information from this project will be provided to the growers to help them reduce water use and to the District for use in planning, conservation and water use permitting. In addition, results from this project will help reduce fertilizer leaching, thus helping to improve water quality. The project will also allow for more soil storage thus reduce potential off site flooding issues.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	9,563	9,563	9,562	0	28,688
013 Hillsborough River Basin	9,563	9,563	9,562	0	28,688
019 Withlacoochee River Basin	9,563	9,563	9,563	0	28,689
020 Peace River Basin	9,563	9,563	9,563	0	28,689
			Total		\$114,754

Critical Project Milestones

	Projected	Amended	Actual
Agreement to Contracts	9/1/05		9/1/05
Agreement to Cooperator	11/1/05		11/1/05

Determine Total Water Budget & Irrig. Req. for Mature Southern Highbush Blueberries

District Executes Agreement	2/1/06	2/1/06
Notice to Proceed	3/1/06	3/1/06
Basin Board Notification	3/1/06	3/1/06
Year 1. Data Collection	4/1/06	4/1/06
Year 2. Data Collection	12/1/06	12/1/06
Year 3. Data Collection	12/1/07	
Completion Report	12/1/08	
Project Ends	8/1/09	

Status As Of: July 06, 2007

9/1/2005 - Developing detailed scope of work. 9/9/2005 - Agreement sent to contracts for review. 11/1/2005 - Agreement in contracts. 12/15/2005 - Sent agreement to cooperator. 1/11/2006 - Cooperator reviewing agreement. 2/16/2006 - Sent Notice to Proceed 4/17/2006 - Transplanting bushings and setting up data collection system. 6/12/2006 - Data collection project continuing as designed. 8/15/2006 - Reviewed first report. 10/12/2006 - Data collection project continuing as designed. 12/4/2006 - Dormant for winter. 2/15/2007 - Basin Board presentation. 2/25/2007 - Growers filed day at Balm. 5/1/2007 - Data collection project continuing as designed. 7/6/2007 - Reviewed task report.

Field Evaluation of Bahiadwarf, For Water Use Efficiency, Turf Quality, Mowing Require

Project Type	Basin Initiatives
AOR(s)	Water Supply, Water Quality
Basin(s)	Hillsborough River, Peace River, Manasota
Cooperator(s)	University of Florida
Project Manager	COHEN, RON
Task Manager(s)	
Status	Ongoing

Description

Lawn and landscape is one of the largest permitted and actual uses of water in the District. Most of this water is used for turf grass irrigation. It is estimated that about 50% of per capita use is for exterior irrigation. As growth in the District continues the demand for lawn irrigation will too. In addition, sod production and the associated water use will also increase. This multi agency year research project will investigate a potentially viable drought tolerant alternative to current popular grass varieties.

Benefits

Results from this project can be used to reduce and conserve urban turf irrigation, agricultural pasture and sod production water use. Reduced irrigation will reduce the runoff potential and water quality impacts. The District will use results from this project in its conservation, planning and regulation programs.

Costs

This multi-agency, 3-year project will cost \$317,500. Part of the project cost (\$160,000 - \$53,333 annually) will come from a Consortium for Plant Biotechnology Research (CPBR - <http://www.cpbr.org>) grant. The remaining funds will be divided evenly between the Hillsborough River, Manasota and Peace River Basin Boards. Each Basin Board will budget \$13,125 in FY2006, FY2007, FY2008 and FY2009.

Additional Information

Part of the project's funding will come from the Consortium for Plant Biotechnology Research (CPBR - <http://www.cpbr.org>). Overall project costs have been reduced because of the ability to leverage previous CPBR and USDA grants that funded the initial research. Bahiagrass (*Paspalum notatum* Flugge) is a low input, drought tolerant and disease resistant warm season turfgrass used for residential lawns, pastures and along highways in the Southeastern US. However turf quality of currently available Bahiagrass cultivars is poor, due to prolific seedhead production, open growth habit and light green color. Recent laboratory research has developed a generation of transgenic Bahiagrass (Bahiadwarf) over-expressing a gibberellic acid catabolizing enzyme (GACE) for improved turf characteristics and reduced mowing requirement. Bahiadwarf prototypes have displayed characteristics such as denser growth habit, reduced seed head production and reduced mowing requirement, that make this plant more attractive for public use. A recently funded USDA project has added multiple drought stress protective genes to the Bahiadwarf, enhancing the plant's environmental friendliness. This project with the University of Florida, IFAS will investigate and document the drought tolerance of the Bahiadwarf under field conditions. They will compare the Bahiadwarf to the industry standard St. Augustine grass and wildtype Bahiagrass. To further enhance the Bahiadwarf, additional transgenic Bahiagrass lines with an improved drought stress response will be generated and compared to St. Augustine grass and wildtype Bahiagrass. In the second and third year of the project, they will evaluate water use efficiency, turf quality, mowing requirement and persistence under different irrigation regimes.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
013 Hillsborough River Basin	13,125	13,125	13,125	0	39,375
020 Peace River Basin	13,125	13,125	13,125	0	39,375
021 Manasota Basin	13,125	13,125	13,125	0	39,375
			Total		\$118,125

Critical Project Milestones	Projected	Amended	Actual
Agreement to Contracts	8/1/05		8/1/05
Agreement to Cooperator	11/1/05		11/1/05
District Executes Agreement	12/1/05		12/1/05
Notice to Proceed	1/1/06		1/1/06
Basin Board Notification	1/1/06		1/1/06
Governing Board Notification	2/1/06		2/1/06
Year 1. Data Collection	12/1/06		12/1/06
Year 2. Data Collection	12/1/07		
Year 3. Data Collection	12/1/08		

Field Evaluation of Bahiadwarf, For Water Use Efficiency, Turf Quality, Mowing Require

Completion Report	9/1/09
Project Ends	1/1/10

Status As Of: July 06, 2007

9/1/2005 - Agreement is being processed by the District. 11/1/2005 - Agreement is being processed by the District.
12/30/2005 - Agreement mailed to cooperator. 1/11/2006 - Cooperator reviewing agreement. 1/23/2006 - Notice to proceed mailed to IFAS. 3/1/2006 Mobilizing staff and equipment. 4/17/2006 - Data Collection 6/12/2006 - Update Agreement (Scope of Work) to incorporate enhanced data collection equipment. 8/16/2006 - Data Collection. 10/12/2006 - Data Collection. 12/4/2006 - Data Collection. 2/28/2007 - Reviewed report, project continuing as designed. 5/1/2007 - Plant damage because of herbicide, project continuing as designed. 7/6/2007 - Data Collection.

Crop Coefficients and Water Use for Peppers in Southwest Florida

Project Type Basin Initiatives
AOR(s) Water Supply
Basin(s) Alafia River, Hillsborough River, Withlacoochee River, Peace River, Manasota
Cooperator(s) University of Florida
Project Manager COHEN, RON
Task Manager(s)
Status Ongoing

Description

Peppers are one of the major row crops grown in the District and in some regions, second only to tomatoes. The actual amount of water these crops use is based on soils, growing season and climatic conditions. To improve the crops' water use efficiency and to help conserve water, it is important for the grower and the District to know exactly how much water the crops require. This lysimeter study will determine how much water pepper plants in Southwest Florida need, determine crop coefficients and an irrigation schedule to help growers.

Benefits

Currently there are over 8,000 acres directly permitted for pepper production and an additional 17,000 acres that might be in a rotation with pepper. These sites are permitted for about 16.5 Mgd (27 Mgd for rotational sites). The number of acres planted and their water use will change annually based on market and climatic conditions. Assuming that results from this project will help reduce 10% of that water, the savings could be about 1.7 Mgd. Added benefits to this project include a potential reduction in pollutant loading and information for AGMOD.

Costs

This two-year project will cost \$135,000. These costs will be divided between the five basin boards that have the most acres permitted for pepper production. Project costs have been prorated between the Alafia (49%), Hillsborough River (19%), Manasota (15%), Peace River (8%) and the Withlacoochee River (9%) Basin Boards. Basin Board funds will be budgeted in FY2007, FY2008 and FY2009. Alafia River will budget \$21,891, Hillsborough River will budget \$8,514, Manasota will budget \$4,257, Peace River will budget \$3,649 and the Withlacoochee River will budget \$6,689 each year.

Additional Information

Currently, the District and the growers use water use values developed outside of Florida. Although these values seem to be reasonable, local crop coefficients could help enhance irrigation scheduling and reduce water use. In addition, the crop coefficients will help decrease the transport of nutrients into the ground and surface water. Water use within the District is expected to increase by 2020. It is anticipated that a large portion of this increased demand will be met by water conservation. Since agricultural water use accounts for the largest fraction of the total permitted water amount in the District, efforts are needed to develop methods to help this water use sector reduce their water use.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	21,891	21,891	0	43,782
013 Hillsborough River Basin	0	8,514	8,514	0	17,028
019 Withlacoochee River Basin	0	6,689	6,689	0	13,378
020 Peace River Basin	0	3,649	3,649	0	7,298
021 Manasota Basin	0	4,257	4,257	0	8,514
			Total		\$90,000

Critical Project Milestones

	Projected	Amended	Actual
Agreement to Contracts	8/1/06		
Agreement to Cooperator	11/1/06		
District Executes Agreement	12/1/06		
Notice to Proceed	1/1/07		
Basin Board Notification	2/1/07		
Governing Board Notification	2/1/07		
Year 1. Data Collection	12/1/08		
Year 2. Data Collection	12/1/09		
Year 3. Data Collection	12/1/10		
Completion Report	9/1/11		
Project Ends	2/1/12		

Crop Coefficients and Water Use for Peppers in Southwest Florida

Status As Of: July 06, 2007

8/15/2006 - Develop agreement. 12/4/2006 - Reviewed draft scope of work. 2/28/2007 - Processing agreement. 5/1/2007 - Agreement in legal for review. 7/6/2007 - Waiting for IFAS to execute the Agreement.

Determine Water Requirements For Genetically Altered Lantana Camara Nursery and L

Project Type	Basin Initiatives
AOR(s)	Water Supply, Water Quality, Natural Systems
Basin(s)	Alafia River, Hillsborough River, Peace River, Manasota
Cooperator(s)	University of Florida
Project Manager	COHEN, RON
Task Manager(s)	
Status	Ongoing

Description

A large amount of water is permitted for nursery and landscape irrigation. With the increase of urban development it is anticipated that the overall permitted amount for these uses will also increase. To reduce water use for landscape irrigation and to conserve water, the District has been promoting Florida Friendly principles. One of the first and most important principles of this practice is the selection and use of drought-tolerant plants (Koske and Owings). The intent of this project is to develop a drought tolerant variety of Lantana camara; and determining its water needs for nursery production and urban landscapes.

Benefits

It is estimated that each year Florida nurseries sell as many as 40 million Lantana plants to other states, of those plants about 5 million are grown within the District. The number of acres planted and their water use will change annually based on market and climatic conditions. To quantify an estimated water savings from this project lets assume one Lantana plant covers 12 square feet (3 ft x 4 ft) and the proposed Lantana plants will save 150 gallons of water a year, thus these plants could save as much as 750 million gallons of water a year for this District.

Costs

This three-year project will cost \$112,790. Currently over 80% of the District's permitted container nursery production occurs within the jurisdictional region of four basin boards. Funding for this project is prorated between them (Alafia River (22%), Manasota (22%), Hillsborough River (28%) and Peace River (28%)) boards. The Nursery industry has provided \$12,890 for this project and the Alafia Basin Board will budget \$7,350, Hillsborough River will budget \$9,350, Manasota will budget \$7,350 and the Peace River will budget \$9,350 for each year in FY2007, FY2008 and FY2009.

Additional Information

In the past the industry has provided seed money to start this project and they are supportive of this proposal. Drought tolerant plants develop various mechanisms that allow them to survive droughts, and stay green while producing flowers without much water. Lantana depressa and Lantana involucrata are some of the best drought tolerant plants available and are among the few plants recommended for desert landscaping in Arizona (City of Tucson; Hedding; Master gardeners of the University of Arizona Pima County Extension Services). In addition they have been used widely in many other states such as California (UC Sacramento County Extension) and Nevada (Southern Nevada Water Authority) for landscape water conservation. Lantana depressa and Lantana involucrata are not widely used in Florida. Several lantana species exist in Florida. Lantana depressa and Lantana involucrata provide year-round color, use little irrigation, have excellent salt tolerance (Beaulieu), attracts butterflies (Schaefer et al., 2002) and hummingbirds (Beaulieu), and have limited fertilization and pesticide requirements (Beaulieu; Owings, 2004), which helps to reduce pollutant loading. Because of these attributes, Lantana depressa and Lantana involucrata, are recommended for water saving in Florida landscapes (South Florida Water Management District). However, adoption of these species of Lantana has been poor because they do not have appealing growth habits and flower colors. Homeowners, nurseryman and landscapers prefer growing Lantana camara. This species of Lantana offers a spectrum of long-lasting colors and is widely used in the U.S. (Koske and Owings; Russ, 2004). In Florida, Lantana camara varieties produce abundance of viable pollen and hybridize with Florida's native species, Lantana depressa, contaminating the native species' gene pool. Consequently, they have been listed as a Category I invasive species by the Florida Exotic Pest Plant Council (<http://www.fleppc.org/>). Category I invasive species are defined as invasive exotics that are altering native plant communities by displacing native species, changing community structures or ecological functions, or hybridizing with natives. IFAS, FDACS and other entities do not recommend producing or growing Category I invasive species plants. Genetic sterilization of Lantana camara could control its invasiveness, thus protecting Florida's native species and ecosystems. Also, it will allow it to be used widely in public and residential landscapes for water conservation and butterfly attraction. Thus conserving water and reducing pollutant loading into the state's water resources. This project will develop a variety of Florida Friendly sterile Lantana camara plants. In addition it will determine the plants water requirements for nursery and landscape irrigation.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
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Determine Water Requirements For Genetically Altered Lantana Camara Nursery and L
District Budgeted - Ad Valorem Based Revenue

011 Alafia River Basin	0	7,350	7,350	0	14,700
013 Hillsborough River Basin	0	9,350	9,350	0	18,700
020 Peace River Basin	0	9,350	9,350	0	18,700
021 Manasota Basin	0	7,350	7,350	0	14,700

Project Funds Not Budgeted by the District

FNGLA	12,890	0	0	0	12,890
			Total		\$79,690

Critical Project Milestones

	Projected	Amended	Actual
Agreement to Contracts	8/1/06		8/1/06
Agreement to Cooperator	11/1/06		10/1/06
District Executes Agreement	12/1/06		11/1/06
Notice to Proceed	1/1/07		11/1/06
Basin Board Notification	2/1/07		11/1/06
Governing Board Notification	2/1/07		11/1/06
Year 1. Data Collection	12/1/07		
Year 2. Data Collection	12/1/08		
Year 3. Data Collection	12/1/09		
Completion Report	10/1/10		
Project Ends	1/31/11		

Status As Of: July 06, 2007

8/15/2006 - Agreement to Contracts. 10/12/2006 - Agreement sent to cooperator for review and execution. 11/2/2006 - Cooperator executes agreement. 11/8/2006 - NOP sent to cooperator. 12/4/2006 - Reviewed task report. 2/28/2007 - Project continuing as planned. 5/1/2007 - Reviewed task report, project continuing as planned. 7/6/2007 - Site visit project continuing as planned.

Reducing Water Consumption in Polyethylene-Mulched Tomato and Pepper Fields after

Project Type Basin Initiatives
AOR(s) Water Supply
Basin(s) Alafia River, Peace River, Manasota
Cooperator(s) University of Florida
Project Manager COHEN, RON
Task Manager(s)
Status Ongoing

Description

Tomato and pepper producers use methyl bromide (MBr) to fumigate their beds before production. About 50 to 95% of the MBr that is injected in to the soil can eventually enter the atmosphere and damage the earth's ozone layer. EPA's Clean Air Act (Amendments of 1990) requires that MBr and other similar chemicals be phased out. The loss of MBr has a major impact on the production practices of tomato and pepper producers in our District and can cause an increase in their water use. This project will provide the water use information needed to address this change in technology.

Benefits

Water use information from this project will be used by growers to save water and in the District's conservation, planning and permitting programs. This will help preserve ground water, reduce off-site discharge of pesticides and nutrients and flooding and improve water quality. Currently there are about 152,000 acres in the District that are permitted for the production of tomatoes and peppers. These sites are permitted for about 335 Mgd. The number of acres planted and their water use will change annually based on market and climatic conditions. Assuming that results from this project will help reduce at a minimum 5% of the permitted water, the savings would be about 17 Mgd.

Costs

This project will cost \$150,000. About 98% of the permitted tomato and pepper production is divided between three basin boards. Project costs have been prorated between the Alafia (22%), Manasota (67%), and Peace River (11%) Basin Boards. Funds will be budgeted in FY2007 and FY2008, Alafia will budget \$33,500, Manasota will budget \$11,000 and the Peace River will budget \$5,500 each year.

Additional Information

Tomato and pepper production relies on a relatively large quantity of water to provide the necessary soil moisture to establish, grow and harvest both crops. These commodities are grown with either seepage or seepage plus drip irrigation. Both systems require constant irrigation to maintain the water table relatively shallow during crop establishment, which reduces the soil storage, increases the risks of flooding, off-site discharge and nutrient leaching. A quick calculation of the irrigation volumes required to produce one acre of tomato indicates that between 4 and 6 ac-inches per acre of water are used to establish and maintain the crop with seepage irrigation. Most existing recommendations for tomato and pepper production were generated when MBr was a viable option for bed fumigation. Also, relatively inexpensive low density-polyethylene mulch (LDPE) was used and current environmental regulations about water run-off and nutrient leaching were not always considered in research projects. Current production practices have changed considerably since past water and production requirements were developed. This project will look at the new technology and changes in growing practices. The University of Florida and the State of Florida have started a vigorous campaign to address the phase out of MBr and the development of Best Management Practices (BMP). Within that context, the use of new developments in fumigation techniques and mulch materials that tend to reduce water use makes sense. Current MBr alternatives, such as 1,3-dichloropropene + chloropicrin (1,3-D + Pic; Telone C-35) and methyl iodide (MI; Midas), have poor efficacy against soil borne pests when applied in saturated soils, as it was customary for MBr, because these molecules can bind more tightly to water molecules than MBr. Another reason that justifies exploring reduced water irrigation programs is the use of higher retentive mulch films (virtually impermeable (VIF) and metalized films). These mulches retain more moisture in the planting beds than previous materials, which adds another component to fumigant and water management in tomato and pepper production. No defensible scientific research has been conducted in Florida to reduce water irrigation volumes for tomato and pepper by combining the lower water requirement of new fumigants and the higher water retention of new mulch films. This project will determine the effect of varying water management regimes on tomato and pepper production, and assess the effect of high retentive mulches and MBr alternatives on the water volumes necessary for tomato and pepper irrigation.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	33,500	33,500	0	67,000
020 Peace River Basin	0	5,500	5,500	0	11,000
021 Manasota Basin	0	11,000	11,000	0	22,000
			Total		\$100,000

Critical Project Milestones	Projected	Amended	Actual
Agreement to Contracts	8/1/06		8/26/06
Agreement to Cooperator	11/1/06		10/1/06
District Executes Agreement	12/1/06		11/1/06
Notice to Proceed	1/1/07		11/1/06
Basin Board Notification	2/1/07		11/1/06
Governing Board Notification	2/1/07		11/1/06
Year 1. Data Collection	12/1/07		
Year 2. Data Collection	12/1/08		
Completion Report	6/1/09		
Project Ends	10/31/09		

Status As Of: July 06, 2007

8/15/2006 - Agreement to Contracts. 10/12/2006 - Agreement is being reviewed by Legal. 11/8/2006 - Sent notice to proceed. 12/4/2006 - Field preparation. 2/28/2007 - Data collection project continuing as planned. 5/1/2007 - Data collection project continuing as planned. 7/6/2007 - Dormant for summer.

Reduction of Water Use for Citrus Cold Protection

Project Type	Basin Initiatives
AOR(s)	Water Supply, Water Quality
Basin(s)	Alafia River, Peace River, Manasota
Cooperator(s)	University of Florida
Project Manager	COHEN, RON
Task Manager(s)	
Status	Ongoing

Description

This is a multi-agency agricultural water conservation project to assist citrus producers in reducing water use for cold protection. The project is an expansion and enhancement of a previously successful Peace River and Alafia Basin Board project (B137). That project was taken statewide by FDACS, SFWMD and SJRWMD. Florida citrus growers use low volume irrigation to conserve water and to provide a more effective method of freeze protection. One characteristic of low volume irrigation used for citrus freeze protection is that the decision to use irrigation must be made prior to the water in the lateral irrigation lines reaching freezing temperatures of 32 degrees F. This project would develop site-specific methodology to accurately determine minimum temperatures the next morning based on sunset temperatures recorded the previous evening. This allows for multiple temperature observations on cold nights from the growing area providing necessary replication of the Brunt equation. In addition, this project will help disseminate this information in newsletters and other sources, including FAWN to help the growers conserve water.

Benefits

The water saving would be a function of acres normally protected and gallons of water per acre per hour. Systems started at 8:00 p.m. and operated to 8:00 a.m. the following morning at 100 trees/acre and 10 gallon/hour emitters would require 12,000 gallons of water per acre per night of freeze protection. This volume represents a total of 0.44 acre-inches of water used for freeze protection per night. Implementation of this methodology by 10% of the permitted citrus acreage within the Alafia, Manasota and Peace River Basin Boards (35,526 acres) would result in a water savings of 424,458,000 gallons of water per non-critical freeze night.

Costs

This three-year project will cost \$15,000. About 90% of the permitted citrus acres are within three basin boards and project costs have been prorated between the Alafia (12%), Manasota (8%) and Peace River (80%) Basin Boards. In FY2007, FY2008 and FY2009 Alafia will budget \$600, Manasota will budget \$400 and the Peace River will budget \$4,000 each year.

Additional Information

One characteristic of low volume irrigation used for citrus freeze protection is that the decision to use irrigation must be made prior to the water in the lateral irrigation lines reaching freezing temperatures of 32 degrees F. Mature citrus foliage is subject to freeze damage at temperatures below 24 degrees F depending on acclimation and tree condition. Minimum temperatures above 24 degrees F would result in minimal freeze damage of acclimated mature citrus foliage. Temperatures that would fall between 32 and 24 degrees F would require no water resources for freeze protection, since these temperatures would be above critical values for acclimated citrus leaves. There is an opportunity to determine before a freeze event time the actual need for irrigation to protect citrus trees, thus saving water resources during a freeze event. Temperature models exist that can help predict minimum temperatures for the following morning at sunset the previous day under stable freeze conditions and are available through the FAWN (project B136) weather network. These models need to be enhanced for individual locations to develop a high level of confidence among citrus growers using the models (Brunt equation to predict minimum temperature methodology has worked for both advective and radiation type freezes). Leaf freezing methodology was developed in the early 1980's and late 1990's at the University of Florida Fruit Crops Department. Determinations of KP50 (killing point) of citrus leaves were made weekly on mature citrus leaves to quantify the level of citrus acclimation to cooler temperatures experienced in the fall and winter months. Data indicated that these leaf-freezing temperatures were dynamic in nature and changed throughout the winter in response to previous week's growing conditions. This project would develop site-specific methodology to accurately determine minimum temperatures the next morning based on sunset temperatures recorded the previous evening this allows for multiple temperature observations on cold nights from the growing area providing necessary replication of the Brunt equation. In addition, this project will help disseminate this information in newsletters and other sources, including FAWN to help the growers conserve water. Historical temperature data indicates (1941-1970) that there is a 75% chance of temperatures reaching 32 degrees F or lower during any given winter in Tampa and a 95% chance of 32 degrees F or lower in Lake Alfred during any given winter. Growers using this methodology in the 2000-2001 season based on historical weather data from the FAWN Dover and Lake Alfred locations had 6 and 7 nights of minimum temperatures below 32 degrees F, respectfully. Growers run their irrigation system for cold protection when temperatures were predicted to be 32 degrees F or below. This is in response to the uncertainty of the actual minimum morning temperatures. This would have resulted in 13 nights of freeze protection-using water. Minimum temperatures on all 13 nights regardless of location did not reach a minimum temperature of 26 degrees F. Growers with accurate information of foliage freezing temperatures would not have realized any additional benefit in protecting foliage if water was used for freeze protection based on this criteria. The water saving would be a

Reduction of Water Use for Citrus Cold Protection

function of acres normally protected and gallons of water per acre per hour. Systems started at 8:00 p.m. and operated to 8:00 a.m. the following morning at 100 trees/acre and 10 gallon/hour emitters would require 12,000 gallons of water per acre per night of freeze protection. This volume represents a total of 0.44 acre-inches of water used for freeze protection per night. Implementation of this methodology by 10% of the permitted citrus acreage within the Alafia, Manasota and Peace River Basin Boards (35,526 acres) would result in a water savings of 424,458,000 gallons of water per noncritical freeze night. Most of the project costs (i.e., equipment) were incurred by the Polk County Citrus Advisory Committee. This project will need funds to collect leaf data and to distribute the information. In addition, the funds will be required for the educational component to help teach the growers how to use the data.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	600	600	0	1,200
020 Peace River Basin	0	4,000	4,000	0	8,000
021 Manasota Basin	0	400	400	0	800
			Total		\$10,000

Critical Project Milestones	Projected	Amended	Actual
Agreement to Contracts	8/1/06		8/1/06
Agreement to Cooperator	11/1/06		10/1/06
District Executes Agreement	12/1/06		11/1/06
Notice to Proceed	1/1/07		11/1/06
Basin Board Notification	2/1/07		12/1/06
Governing Board Notification	2/1/07		12/1/06
Year 1. Data Collection	12/1/07		
Year 2. Data Collection	12/1/08		
Completion Report	6/1/09		
Project Ends	11/30/09		

Status As Of: July 06, 2007

10/12/2006 - Agreement is being reviewed by Legal. 11/8/2006 - Sent official notice to proceed. 12/4/2006 Mobilizing equipment. 2/28/2007 - Data collection, mild winter not too much to report. 5/1/2007 - Dormant for summer. 7/6/2007 - Processed payment, Dormant for summer.

Potential to Use ASR in the Avon Park Formation

Project Type Basin Initiatives
AOR(s) Water Supply, Water Quality
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Pinellas-Anclote River, Peace River, Manasota
Cooperator(s)
Project Manager BARCELO, MARK
Task Manager(s)
Status Ongoing

Description

This study will evaluate the potential for ASR operation in the Avon Park Formation, which is not the injection zone typically used for ASR in the southern and central areas of the District. Investigators from the University of South Florida Geology Department will conduct a detailed mineralogical and chemical investigation of the Avon Park Formation that will culminate in an ASR operation model. Compounds that are regulated by primary and secondary drinking water standards will be considered, with an initial focus on arsenic and its identified source, pyrite. Major tasks of the study will include: descriptions of existing cores; sample collection; chemical analysis and interpretation of cores; collection and analysis of Avon Park Formation groundwater; and modeling a range of ASR scenarios using the collected data.

Benefits

Water supply continues to be a critical issue in the SWUCA, and this study compliments the District's water supply planning efforts. This project will enable the District and local governments to make knowledgeable decisions about future investment in ASR.

Costs

Six Basin Boards have been asked to participate in funding this project at a level of \$12,000 each in FY2007 and \$12,000 each in FY2008.

Additional Information

ASR is an important water supply option that is integral to water resources management in the SWUCA. Because of the significant benefit to future water supply that ASR can provide, the District has funded several ASR projects and investigative studies to further develop this technology. Over the past several years, there have been growing concerns about the quality of water retrieved from the current injection zone, the Suwannee Limestone. Elevated arsenic concentrations have been consistently discovered in injectate that is stored and recovered from the Suwannee Limestone. The results of this study will be an important tool that can be used to evaluate future ASR development in the SWUCA.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	12,777	13,302	0	26,079
013 Hillsborough River Basin	0	12,777	13,302	0	26,079
014 Northwest Hillsborough Basin	0	12,777	13,302	0	26,079
016 Pinellas-Anclote River Basin	0	12,777	13,302	0	26,079
020 Peace River Basin	0	12,777	13,302	0	26,079
021 Manasota Basin	0	12,777	13,302	0	26,079
			Total		\$156,474

Status As Of: July 06, 2007

Analysis of geologic cores from the Avon Park Formation in the region is ongoing.

Long-Term Water Budget Analysis of Lake Starr, Polk County Florida

Project Type Basin Initiatives
AOR(s) Water Supply
Basin(s) Peace River
Cooperator(s) United States Geological Survey
Project Manager BEACH, MICHAEL
Task Manager(s)
Status Ongoing

Description

The purpose of this cooperative project between the U.S. Geological Survey (USGS) and the District is to analyze the effects of rainfall and ground-water levels on the lake levels of Lake Starr over a wide range of conditions. This lake is a 134-acre seepage lake located on the Lake Wales Ridge within the Peace River Basin, about four miles north of Lake Wales. The project will be based on a 10-year data set.

Benefits

It is believed that rainfall most affects lake levels when rainfall is above normal. It is also believed that ground-water levels most affect lake levels when rainfall is generally normal to low and ground-water levels are low due to pumping. However, if the District is to responsibly manage water resources, it is imperative that the District be able to verify and quantify these relationships. This ten-year dataset provides the District and the USGS with an extremely wide range of rainfall and lake level conditions, and the opportunity to significantly improve on the previous work. Additionally, the developed relationships between rainfall and ground-water levels versus lake levels will provide a measure against which simpler statistically-based models can be tested in the future.

Costs

The cost of the project is \$600,000, to be shared equally between the USGS and the Peace River Basin Board. The project will take three years to complete, October 2006 through September 2009.

Additional Information

The USGS previously did an analysis on this lake for the 2-year period August 1996 through July 1998. During that period rainfall was 50.68 inches and 54.04 inches, respectively. These rainfall amounts are very close to the long term annual average of 51.99 inches. Lake levels during that time fluctuated between 103.9 feet and 106.6 feet , NGVD: a range of less than three feet. Since that time, the USGS has continued collecting data: lake levels, ground-water levels, rainfall, and evaporation. There are now ten years of data that include periods of extreme drought as well as periods of considerable rainfall. Lake levels over that time have fluctuated between 96.3 to 109.8 feet, NGVD: a range of over 13 feet. Analysis of the extended data will provide a better understanding of the contribution to lake levels from groundwater, rainfall, and evaporation at the extreme ends of the rainfall and lake level ranges.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	104,538	105,948	100,000	310,486
Project Funds Not Budgeted by the District					
USGS	0	100,000	100,000	100,000	300,000
			Total		\$610,486

Critical Project Milestones	Projected	Amended	Actual
Project Complete	9/30/09		

Status As Of: February 14, 2007

1) Water balance calculations for the period 1996 through 2005 were completed and reviewed. 2) Water samples collected during previous projects at this site were submitted to the USGS Reston Stable Isotope Laboratory in Reston, Virginia for analysis. 3) The correlation between ground-water flow measurements and aquifer water levels for the study period, 1996 through 2005 were analyzed.

USGS - Hydrogeology and Quality of Groundwater in Highlands County

Project Type	Basin Initiatives
AOR(s)	Water Supply, Water Quality
Basin(s)	Peace River
Cooperator(s)	United States Geological Survey
Project Manager	MCBRIDE, TAMERA
Task Manager(s)	
Status	Ongoing

Description

This study will update information on the hydrogeology and water quality of the surficial, intermediate, and Floridan aquifer systems in Highlands County and will assess long-term water resource trends. The project will be conducted by the U. S. Geological Survey and cooperatively funded by the SWFWMD, SFWMD, Highlands County, and the U. S. Geological Survey. The project will be implemented over a three year period (FY2007 to FY2009) and will enable water resource managers to better evaluate current hydrologic conditions; define present-day baseline conditions; and identify what additional hydrologic data are needed.

Benefits

Water supply continues to be a critical issue in the SWUCA, and this study compliments the District's water supply planning efforts. This project will enable the District and local governments to make knowledgeable decisions about area water needs and resources.

Costs

The total cost of the project is estimated to be \$580,000 with the U.S. Geological Survey contributing \$290,000, the SFWMD contributing \$170,000, and the SWFWMD (Peace River Basin Board) and Highlands County each contributing \$60,000. The requested funding from the Peace River Basin Board in FY2008 is \$20,000. This will be for the second year of the project.

Additional Information

Water resources in Highlands County have not been comprehensively studied in the last 50 years (Bishop, 1956), and information gathering is essential to make knowledgeable water resource decisions in the SWUCA. Population and water use have significantly increased in parts of the county since the last comprehensive study was completed. This report will enable water resource managers to better evaluate current hydrologic conditions; define present-day baseline conditions; and identify what additional hydrologic data are needed. This is a three-phase study that investigators will complete by researching existing information, collecting new data, and generating a written report. In Phase 1 (FY2007), data will be compiled from area stakeholders, and it will be used to characterize current groundwater quality conditions, assess long-term trends, and identify data gaps. For Phase 2 (FY2008), groundwater levels will be measured; maps and hydrogeologic cross-sections will be developed; water level trends will be evaluated; and groundwater quality samples will be collected and analyzed. The results of the study will be published in a USGS Scientific Investigations Report during Phase 3 (FY2009).

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	22,330	24,533	20,000	66,863
Project Funds Not Budgeted by the District					
Highlands County	0	20,000	20,000	20,000	60,000
SFWMD	0	20,000	56,000	91,000	167,000
USGS	0	60,000	96,000	131,000	287,000
			Total		\$580,863

Critical Project Milestones

	Projected	Amended	Actual
Research Existing Data and Information	10/1/07		
Hydrogeologic Mapping	4/1/08		
Water Quality Sampling and Analysis	10/1/08		
Submit Report for Final Approval	10/1/09		

Status As Of: June 28, 2007

The Joint Funding Agreement has been signed by both parties and executed. The research portion of the project is continuing.

Project Type Basin Initiatives
AOR(s) Water Supply, Water Quality, Natural Systems
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)
Project Manager DURELL, SYLVIA
Task Manager(s)
Status Proposed

Description
 Water resources issues related to the fast growth of new home construction within the District boundaries has revealed a need for a Districtwide specialist to promote the Florida Yards & Neighborhoods (FYN) Program Regional Builder/Developer Program. The majority of decisions concerning new landscapes and environments are made by builders, developers and landscape and irrigation professionals. Their decisions impact water supply, water quality and natural systems. Outreach to builders, developers and landscape and irrigation specialists has proven successful in Charlotte, Manatee, Sarasota and Pasco counties and it is timely to expand efforts in these counties and to bring the education to other areas of the District.

Benefits
 With the expected expansion in land development and building construction and increased population, demand for water continues to increase. The program addresses priority concerns of the Basin Boards and the District's Comprehensive Watershed Management initiative by promoting widespread adoption of environmental landscaping best management practices by builders, developers, and landscape and irrigation professionals to conserve water and reduce environmental damage from improper landscape design, installation and maintenance.

Costs
 If approved, the total cost of the outreach program in FY2008 will be \$78,839, which includes project coordination, program expenses and travel expenses for outreach to all Basins. Budget lines below include costs to manage the project. The University of Florida will support the program by providing education oversight and training opportunities. The consultant will use a workstation at District service offices and meet with the District project manager on a bimonthly basis. Budget lines below include costs for staff to manage the project.

Additional Information
 Education will be based on the nine Florida-friendly landscaping principles that were created by the University of Florida/Institute of Food and Agricultural Sciences for the FYN program: Right Plant, Right Place, Water Efficiently, Fertilize Appropriately, Mulch, Attract Wildlife, Manage Yard Pests Responsibly, Recycle, Reduce Stormwater Runoff and Protect the Waterfront. Outreach efforts will include conferences, workshops, one-on-one interactions, newspaper articles, electronic media and distribution of printed materials. Successful components of current outreach to builders, developers and landscape and irrigation professionals in Charlotte, Manatee, Pasco and Sarasota counties will be incorporated into the outreach plans for this program.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	5,383	6,246	0	11,629
013 Hillsborough River Basin	0	12,561	13,386	0	25,947
014 Northwest Hillsborough Basin	0	6,280	7,798	0	14,078
015 Coastal Rivers Basin	0	7,177	7,924	0	15,101
016 Pinellas-Anclote River Basin	0	22,430	20,391	0	42,821
019 Withlacoochee River Basin	0	7,177	7,816	0	14,993
020 Peace River Basin	0	15,252	15,786	0	31,038
021 Manasota Basin	0	13,458	13,311	0	26,769
			Total		\$182,376

Critical Project Milestones	Projected	Amended	Actual
FY2007 Purchase Order Issued:	10/1/06	3/15/07	3/6/07
FY2007 First Task Report:	3/31/07		3/31/07
FY2007 Second Task Report:	4/30/07		4/30/07
FY2007 Third Task Report:	5/31/07		5/31/07
FY2007 Fourth Task Report:	6/30/07		6/30/07
FY2006 Fifth Task Report:	7/31/07		

FY2007 Sixth Task Report	8/31/07
FY2007 Seventh Task Report	9/30/07
FY2007 Eighth Task Report	10/30/07
FY2007 Ninth Task Report	11/30/07
FY2007 Tenth Task Report	12/31/07
FY2007 Eleventh Task Report	1/31/08
FY2007 Twelfth Task Report	2/28/08

Status As Of: June 21, 2007

Angela Maraj began working as the District Regional Builder & Developer Landscape Education Specialist in March 2007. The program was featured at the Polk County Homebuilders Association meeting held on June 6, 2007. Stephen Bissonnette, Alafia River Basin Board member and assistant director of community development for the City of Lakeland, attended the meeting along with approximately 24 others. Maraj presented "Promoting Florida-Friendly Landscaping in New Communities." At least one builder in the audience expressed immediate interest in adding Florida-friendly landscaping to his projects. A meeting with Citrus County Homebuilders Association's (CCHA) Parade of Homes Steering Committee is scheduled for July 5. Maraj will propose that the CCHA include the Water-Wise Landscape Recognition Program in their fall Parade of Homes event. Kick off for the event is July 10. Recent media contacts include the Miami Herald and Fox 13 News. The District's Builder & Developer Regional Landscape Education Program will be featured in a booth at the Southeast Building Conference/Green Trends Show in Orlando, July 12-14, 2007. "Betty Blade," the grass blade character featured in the District's media campaign, will attend the show to draw attention to the booth, which the District will share with the Florida Green Building Coalition.

Effects of Development on the Hydrologic Budget in the SWUCA

Project Type Basin Initiatives
AOR(s) Water Supply
Basin(s) Alafia River, Peace River, Manasota
Cooperator(s) United States Geological Survey
Project Manager BEACH, MICHAEL
Task Manager(s)
Status Ongoing

Description

The first year of this cooperative project between the U.S. Geological Survey and the District is a pilot study that will compare the hydrologic effects, including water supply demand, of converting land from agricultural to urban-suburban use-types on similar size tracts of land Southern Water Use Caution Areas (SWUCA). The first year study will focus on the effect of converting land in Charlie Creek basin from an agricultural land use to an urbanized land use. Agricultural land use in Charlie Creek basin is well established and the USGS is nearing completion of another project in the basin that provides a detailed look at the water budget for the past few years. GIS modeling will be used to simulate the effects of such change. The scope of work for subsequent years will depend on the outcome of this pilot study.

Benefits

These conversions will affect runoff and recharge properties of the land, and there may be a difference in the amount of water supply demand. It will be useful to understand what the effects of these conversions will have on water resources. It will also be useful to quantify the differences between water supply demands for the two use types over similar acreages and in similar locations. As such, the project has great potential as a tool for the District and water supply managers as they move forward with water supply planning and recovery in the SWUCA.

Costs

The cost of the project is \$110,000, to be shared equally between the USGS and the District. District costs will be shared proportionally between the Peace River Basin, the Manasota Basin, and the Alafia River Basin. The study project will take one year to complete, October 2007 through September 2008.

Additional Information

In the SWUCA, there is considerable acreage that is used for agriculture, especially citrus or row crops. In the future, some of that land will be converted to suburban, or perhaps urban, land use. In order to quantify the water resource effects of this conversion, the study will develop water budget models that will examine changes in ET, runoff and water use for each use type. Although no such conversion is planned for the Charlie Creek basin, considerable data has recently been collected there in another project by the USGS. The results of the study will indicate the best methods to use in other areas of the SWUCA to evaluate the effect of such land use conversions on the elements of the basin water budget.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	15,870	15,979	13,600	45,449
020 Peace River Basin	0	62,470	62,579	60,200	185,249
021 Manasota Basin	0	28,470	28,579	26,200	83,249
Project Funds Not Budgeted by the District					
USGS	0	55,000	100,000	100,000	255,000
			Total		\$568,947

Status As Of: June 21, 2007

The joint funding agreement (JFA) is now circulating through the District and will be returned to the USGS in the next week or so. After that time, work on this project will begin.

National Hydrography Database (NHD)

Project Type	Basin Initiatives
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	General Fund (District), Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	N/A
Project Manager	DICKS, STEVE
Task Manager(s)	
Status	Proposed

Description

The NHD is a comprehensive set of Geographic Information System (GIS) data that contains information about surface water features such as lakes, ponds, streams, rivers, springs and wells. This dataset was created by the United States Geological Survey (USGS) in cooperation with the Environmental Protection Agency (EPA) to provide a consistent nationwide database to link water-related data to specific streams and waterbodies. The five water management districts and the FDEP cooperatively created Florida's original version of the NHD in the late 1990's and early 2000's. The dataset was created using the best available information, hydrographic features found on the USGS 7.5 Minute Topographic Quadrangles. While the original NHD supports many District uses, it often does not have the level of information required to support detailed modeling efforts. The funding proposed here will be used to upgrade the NHD dataset for our jurisdiction using detailed hydrographic information captured under the District's Watershed Management Program. Similar efforts are underway at the St. Johns River Water Management District and are being evaluated at the South Florida Water Management District.

Benefits

Participating in the NHD update effort provides an effective mechanism for integrating our detailed hydrographic information into a nationwide database that is distributed by the USGS. Since the NHD is used by the FDEP and other water management districts, the District's modeling and data collection efforts will benefit from improved data consistency with those agencies. This project benefits federal, state, local, and private entities by providing access to the District's detailed hydrographic data in an industry standard format.

Costs

The requested FY2008 funds will be used to fund a contract position and supporting services at FDEP to update the NHD and transfer the data to the USGS. Funding is split between the Governing Board and Basin Boards. The Governing Board provides fifty percent of the total project cost with the remainder being split between the Basin Board based on area. It is anticipated that this will be an annual budget request that will continue to provide updates to the NHD in coordination with the District's Watershed Management Program.

Additional Information

No federal, state or local government currently updates the NHD for our area. The District does not have sufficient in-house resources to support this effort and the funding will be used to outsource this work to the FDEP. FDEP is the primary NHD coordinating body in Florida.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	0	30,671	0	30,671
011 Alafia River Basin	0	0	2,052	0	2,052
013 Hillsborough River Basin	0	0	2,226	0	2,226
014 Northwest Hillsborough Basin	0	0	472	0	472
015 Coastal Rivers Basin	0	0	2,428	0	2,428
016 Pinellas-Anclote River Basin	0	0	1,108	0	1,108
019 Withlacoochee River Basin	0	0	6,000	0	6,000
020 Peace River Basin	0	0	9,090	0	9,090
021 Manasota Basin	0	0	3,953	0	3,953
			Total		\$58,000

Status As Of:

Automated Citrus Irrigation Management to Reduce Water Consumption

Project Type	Basin Initiatives
AOR(s)	Water Supply, Flood Protection, Water Quality
Basin(s)	Alafia River, Hillsborough River, Peace River, Manasota
Cooperator(s)	University of Florida
Project Manager	COHEN, RON
Task Manager(s)	
Status	Proposed

Description

Agriculture is the largest permitted water use in the District and citrus production is the largest of those permitted uses. Over 366MGD are permitted for citrus irrigation and most of that water use is in the SWUCA. This project will help citrus growers reduce their water use by developing tools to automate and improve irrigation scheduling. These tools can be used by the District's FARMS program to further expand their conservation efforts. Although citrus acres have been on the decline it seems to have reached a stabilizing point. With the increase in the recent price of citrus the District might even see an increase in the number of acres. The permitted acres for citrus is still relatively high and even a minor reduction in water use or fertilizer application could have a significant impact on the District's water resources. The proposed project will investigate the use of new low-cost automatic irrigation pump controllers with wireless remote monitoring and control. This low cost system (<\$1,000) will enable growers to optimize the irrigation scheduling and remotely manage over 100 acres. In addition the project will develop and compare new and improved irrigation scheduling tools for citrus trees, particularly for automated systems. In the past the District has funded several citrus irrigation projects. With the introduction on new technology some of the old information is no longer applicable and some of the information needs to be incorporated into new technology. Where applicable this project will build on past projects and use new technology to help reduce water and fertilizer use.

Benefits

The actual water savings will depend on acres planted climatic and growing conditions. Assuming a 1% savings this would amount to about a 3.7 million gallons per day reduction of ground water in an area of water use concern. The reduced water use would make more water available for other uses and reduce the amount of funds that need to be invested in alternative water supplies. An added benefit to this project will be that improved irrigation would improve fertilizer use, which will reduce the amount of nutrients available to runoff and pollute the District's water bodies. Also the project's information will provide the FARMS program with another tool to help reduce ground water use.

Costs

This will be a four year project and the total cost will be \$150,000. Project costs are divided between four Basin Boards based on the percent water permitted for citrus production within their watersheds. The following is the annual cost break down by Basin Board: Alafia \$4,500, Hillsborough River \$4,000, Peace River \$38,500 and Manasota \$3,000 for FY2008, FY2009 and FY2010.

Additional Information

Improved irrigation scheduling can conserve large volumes of water. Since current irrigation scheduling tools are unreliable, growers are prone to over-irrigate to eliminate any risk of drought stress. Manually operated irrigation systems are not adaptable to more efficient frequent, small irrigations or night-time irrigations due to logistics, conflicts in schedules, and the inconvenience factor. Irrigation durations are most often rounded up, rather than down, even after accounting for all these factors. Probability of rainfall is almost never considered and some irrigation systems are even run during rain events. Over-irrigation and nutrient leaching consequently deplete and degrade our limited water resources. The high cost of commercially available automatic control systems has, unfortunately, prevented their widespread acceptance and use. Since often less than 100 acres are supplied per pump, quite commonly a grower will have multiple well pumps to automate in a citrus grove. At a cost to automate of more than \$20,000 per pump, the financial burden is prohibitive, even with cost sharing. In addition, commercial automatic controllers have a limited ability to interface with available soil moisture sensors or with more advanced scheduling tools such as simulation models. Without adequate inputs, the full potential of automatic controllers cannot be realized. There is a great need to develop low-cost automatic irrigation pump controllers to reliably schedule irrigation.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	0	4,500	0	4,500
013 Hillsborough River Basin	0	0	4,000	0	4,000
020 Peace River Basin	0	0	38,500	0	38,500
021 Manasota Basin	0	0	3,000	0	3,000
			Total		\$50,000

Status As Of:

Reducing Nursery and Landscape Water Use by Genetically Altering Nandina Plants

Project Type	Basin Initiatives
AOR(s)	Water Supply, Water Quality, Natural Systems
Basin(s)	Alafia River, Hillsborough River, Peace River, Manasota
Cooperator(s)	University of Florida
Project Manager	COHEN, RON
Task Manager(s)	
Status	Proposed

Description

There are over 5,000 acres of nursery production in the central part of our District and typically they are permitted for about 1.7 Million gallons of water per acre. With the increase of urban development it is anticipated that the number of nursery acres will increase and landscape water use will increase. To reduce landscape irrigation and to conserve water, the District has been promoting Florida Friendly principles. One of the first and most important principles of this practice is the selection and use of drought-tolerant plants (Koske and Owings). Nandina is a very popular drought tolerant plant and recently its use has been demising because of it being listed as an invasive species. This project will develop and determine nursery production and urban landscapes water requirements for a drought tolerant variety of Nandina. The industry is supportive of this project and is providing funds.

Benefits

It is estimated that each year about 5 million Nandina plants are grown and sold within the central part of the District. The number of acres planted and their water use will change annually based on market and climatic conditions. To quantify an estimated water savings from this project lets assume a Nandina plant covers 12 square feet (3 ft x 4 ft), 3,700 plants per acre, 1,375 acres and a 1% to 5% savings for Nandina Nursery Production. This savings will reduce water use by 332,000 to 66,000 gallons per day. In addition there will be a savings from urban landscape water use. An added benefit to this project is that it will eliminate an invasive plant species. This will save the District and the public having to invest public funds to eliminate an invasive plant.

Costs

This five year project will cost the District \$125,000. Funding for this project is prorated between four Basin Boards (Alafia River (22%), Manasota (22%), Hillsborough River (28%) and Peace River (28%)) based on the permitted nursery acres in their watershed. The Nursery industry will provided \$15,000 for this project and the Alafia Basin Board will budget \$5,500, Hillsborough River will budget \$7,000, Manasota will budget \$5,500 and the Peace River will budget \$7,000 for each year in FY2008, FY2009, FY2010, FY2011 and FY2012.

Additional Information

Each year a large amount of water is permitted for nursery and landscape irrigation. With the rapid urban development in the District, it is anticipated that the amount of water permitted for these uses will increase. To reduce water use for landscape irrigation and to conserve water, the DISTRICT has been promoting Florida Friendly landscaping principles. One of the first and most important principles of this practice is the selection and use of drought-tolerant plants. Nandina plants are of great potential to reducing water usage in the urban landscape. They are well adapted to Florida soil conditions and well tolerant of droughts. Because of these and their aesthetic values, nandinas are very popular in nursery production and landscape use. They are particularly liked in low-maintenance landscapes and xeriscaping. In addition, these plants are extremely tough and practically pest free, thus requiring little use of pesticides. This characteristic is very beneficial and can help reduce chemical pollution from public or residential landscapes to soil and water and protect water quality. With the production of copious amounts of fruit berries and seeds, nandina plants can escape from cultivation into natural areas. Escaped nandinas can become established in natural areas, wet lands, etc., displacing native plants, disrupting natural plant communities, and changing natural ecosystems. Because of this, nandina is listed as a Class I invasive species by the Florida Exotic Pest Plant Council (<http://www.fleppc.org/>) and not recommended by University of Florida for propagation, production, and sale in central Florida. The primary cause of the invasiveness of nandinas is their production of copious berries and seeds. Recent studies have shown that it is possible to find nandina varieties (one or two) that do not produce berries and seeds, thus not invasive, but this lack of berry or seed production seems to vary from region to region in Florida. For example, two nandina varieties produced lots of fruit in north Florida, but did not produce fruit and seed in south Florida. It is not known whether or not these varieties will produce fruit and seeds in central Florida. In this project, we propose to test these varieties in this District (southwest Florida) for their berry and seed production to confirm whether or not they are not invasive and safe for production and use in this District, to determine their water needs and water conservation values for nursery production and urban landscape use, and to develop new drought-tolerant nandina plants that do not produce seeds and are not invasive, but friendly to the environment.

Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
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Reducing Nursery and Landscape Water Use by Genetically Altering Nandina Plants



District Budgeted - Ad Valorem Based Revenue

011 Alafia River Basin	0	0	5,500	0	5,500
013 Hillsborough River Basin	0	0	7,000	0	7,000
020 Peace River Basin	0	0	7,000	0	7,000
021 Manasota Basin	0	0	5,500	0	5,500
			Total		\$25,000

Status As Of:

Upper Peace River System - Freshwater MFLs

Project Type Basin Initiatives
AOR(s) Water Supply, Natural Systems
Basin(s) Peace River
Cooperator(s)
Project Manager MORALES, JON
Task Manager(s)
Status Proposed

Description

Request funds to complete establishment of minimum flows for the upper Peace River by 2011. By requirements of Florida statutes, the District must establish Minimum Flows and Levels (MFLs) for water bodies within its jurisdiction. This project is to provide technical information to support the adoption of MFLs for the freshwater portions of the upper Peace River system. Low flow thresholds have been established on the upper Peace River. However, methodologies for developing MFLs were not complete when staff first studied the Peace, so high flow restrictions were not established. The District staff now has a methodology for developing high flow restrictions and seeks to complete the MFL of the upper Peace River in 2011. An understanding of ecosystem components is needed so that relationships between minimum flows and significant harm can be evaluated in a defensible manner. It is necessary for a number of reasons to document the abundance, diversity, and distribution of plants and animals that are associated with these resources under seasonally changing flow conditions. Physico-chemical variables (e.g., dissolved oxygen, temperature), drainage alterations, and extensive hydrologic data also need to be evaluated. While much of the data can be, or has been, collected and developed in-house, manpower and time limitations and the specialized expertise required for some analyses dictates that some of it must be consulted out. Funding under this project will accomplish four goals specific to MFLs development: 1) improve the hydraulic model originally used in the first round of MFL development; 2) evaluation of hydraulic characteristics of the stream for the purpose of describing floodplain inundation patterns under various flows; 3) assessment of fish community structure and habitat availability; and 4) assistance in the analysis of hydrologic and biologic data to establish relationships between river hydrology (stage and flows) and the ecologic resources that are supported.

Benefits

Completion of this project will support timely adoption of MFLs on this water body consistent with the Board adopted MFLs priority list and schedule. Funding requested in FY2008 is primarily for use in evaluating the potential reduction in fish and macroinvertebrate habitat and loss of floodplain wetland connection due to reductions in flow. The use of external expertise in Geographic Information Systems (GIS) and modeling will allow for the results from the hydraulic to be utilized in a GIS environment and thus, better describe spatial patterns of floodplain inundation. Funding will also provide partial support to a cooperative effort by the Florida Fish and Wildlife Conservation Commission to reassess the fish community of the Peace River. Fish data used in initial MFL development in the upper and middle river relied on information that is now more than 15 years old, and it is currently suspected that several exotic fish species have expanded throughout the system.

Costs

Total requested funding in FY2008 is \$121,500. The Peace River Basin Board's contribution is one half of the \$121,500 total, or \$60,750, with the remaining \$60,750 to be funded by the Governing Board. A small amount has been budgeted for travel and parts and supplies.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	0	64,724	0	64,724
020 Peace River Basin	0	0	60,250	0	60,250
			Total		\$124,974

Critical Project Milestones

1. Flow Measurement and Analysis

Flow Data Collection from USGS 7/1/10
 Flow Data Analysis Summary 7/30/10

2. Field Site Selection

Identify Field Sites and Habitats 7/15/10
 Obtain Permission to Access Private Property 8/1/10
 Map Shoals 8/10/10

3. Floodplain Vegetation Analysis

Field Sampling/Survey 9/1/10
 Vegetation Assessment Report 11/30/10

4. Instream Habitat Assessment

Field Data Collection/Survey	9/15/10
Habitat Assessment Summary	11/30/10
PHABSIM Analysis Summary	12/15/10
5. Hydraulic Model Development	
Survey Data Acquisition	11/1/10
HEC-RAS Model Development	1/30/11
6. MFL Report Development	
Data Analysis	3/1/11
Report Preparation	5/1/11
7. Peer Review	
Peer Review	7/30/11

Status As Of: July 06, 2007

New data collection efforts occurring on the upper Peace River are underway. This includes a reassessment of fish communities in various instream habitats and their composition by Florida Fish and Wildlife Conservation Commission. Their study beginning in July, will run over three years and will encompass the entire Peace River watershed up to the estuarine zone/near shore region. Other components of the study will also look at fish utilization of temporary floodplain pools when flows exceed the river bank. Fish assessment studies are also planned for Charlie Creek and Horse Creek.

Project Type	Basin Initiatives
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	General Fund (District), Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	N/A
Project Manager	DICKS, STEVE
Task Manager(s)	
Status	Ongoing

Description

This is a continuing initiative with the goal of providing Geographic Information System (GIS), aerial photo interpretation and photogrammetric mapping services to support Governing and Basin Board activities. GIS support includes the input, management, analysis and distribution of spatial data, the design and implementation of databases, software training and map production. Aerial photo interpretation includes land use/cover mapping in support of land acquisition, Surface Water Improvement and Management (SWIM), engineering, planning and environmental studies. Photogrammetric support includes the mapping of topographic information, collection of aerial photographs and satellite imagery and the production of digital orthophotographs. This program also supports the distribution of data to the public and routine maintenance activities. The annual budget includes administrative costs for salaries, travel, training, plotting and photographic supplies, maps and other data purchases, etc.

Benefits

Mapping and GIS has been a continuing activity since 1987 and is required to support the District's GIS, digital orthophoto, aerial mapping and other data collection, maintenance and management activities. The District's GIS database is an integral component of planning, engineering, regulatory, and land acquisition and management activities. In a rapidly growing area such as the District, continued maintenance and expansion is needed for the GIS database to meet new demands and is required to protect the historical investment in the system. The data are currently accessed by over 300 District staff using the ArcGIS software, are serves as the foundation for the Water Management Information System. Additionally, the data collected by the Mapping and GIS Section are viewable and downloadable from the District's Internet web site.

Costs

FY2007 funds include consulting services in support of GIS software upgrades (\$15,000 in Governing Board only), consulting services for data management in support of the Federal Emergency Management Agency Map Modernization effort (\$160,000 in Governing Board only), Land Parcel Ownership Database Update (\$30,000 shared between the Governing and Basin Boards), Roads Database Update (\$92,000 shared between the Governing and Basin Board). Proposed FY2008 funds include training services in support of GIS software upgrades (\$15,000 in Governing Board only), consulting services for data management in support of the Federal Emergency Management Agency Map Modernization effort (\$260,000 in Governing Board only), Land Parcel Ownership Database Update (\$60,000 shared between the Governing and Basin Boards), Roads Database Update (\$102,000 shared between the Governing and Basin Board). Funding for GIS data collection projects (Land Parcel Ownership Database Update and Roads Database Update) is shared between the Governing Board and the Basin Boards is allocated as follows: 1) The Governing Board pays for 50% of the total project cost, plus costs for the Green Swamp Basin. 2) The remainder of the costs are split between the Basin Boards using a formula that accounts for the area and population of each Basin.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	5,342,320	1,538,696	936,651	0	7,817,667
011 Alafia River Basin	98,883	32,897	36,843	0	168,623
013 Hillsborough River Basin	113,820	33,397	39,008	0	186,225
014 Northwest Hillsborough Basin	89,817	31,897	35,493	0	157,207
015 Coastal Rivers Basin	96,688	32,897	37,129	0	166,714
016 Pinellas-Anclote River Basin	120,346	34,897	39,872	0	195,115
019 Withlacoochee River Basin	121,189	34,897	39,772	0	195,858
020 Peace River Basin	152,133	37,397	44,753	0	234,283
021 Manasota Basin	120,581	34,897	39,867	0	195,345
			Total		\$9,317,037

Critical Project Milestones

The following are major activities for FY2007

Projected Amended Actual

Transfer WMIS and ECM funds to Information Resources	10/30/06	10/21/06
Issue purchase orders for watershed management.	2/1/07	1/15/07
Annual Roads Database Update Completed	9/30/07	
Annual Parcel Database Project Completed	9/30/07	

Status As Of: June 22, 2007

Mapping and GIS is an ongoing support activity. The section will continue supporting ad hoc requests for GIS data as well as conducting routine data maintenance activities. Data will continue to be accessible via the District's Internet site. Funds supporting the Water Management Information System project have been transferred to the Information Resources Department. A purchase order for the roads database purchased from Geographic Data Technologies was issued in October for the semi-annual update of these data. The FY2007 agreements with Florida State University have been executed. The roads database update project has been completed and the data have been loaded into the GIS.

Project Type Basin Initiatives
AOR(s) Flood Protection, Natural Systems
Basin(s) General Fund (District), Alafia River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s) N/A
Project Manager HAGBERG, JEFFREY
Task Manager(s) MARTIN, MIKE
Status Ongoing

Description

Budget amount is for field maintenance activities associated with District water control structures, canals, and well sites. Activities include mowing, painting, tree trimming, and fence repair. Various types of well sites include groundwater sampling wells, data collection wells, and rainfall wells/gauges. Additional requirements at both water control structures and well sites include erosion control, slope stabilization, fencing, along with road, culvert and channel maintenance. These maintenance areas are District owned, but were not acquired using Save Our Rivers (SOR), P2000, and Forever Florida funds and are therefore funded by ad valorem. Currently there are 11 water control structures and 35 well sites to maintain. Field Operations in the Bartow Service Office also perform manual operations of all the water control structures in this basin and collect lake level data as needed.

Benefits

Keeping canals and water control structures clear and maintained are required to maintain the designed flow capacity. In addition, well sites are maintained for Hydrologic Data and Resource Data crews to collect data easily and in a safe manner. Repairs as necessary for erosion control and slope stabilization at canals and water control structures are accomplished with the use of materials such as rip-rap rock and filter fabric. In addition, maintenance requirements at well sites include materials for road stabilization and fencing repairs.

Costs

The FY2007 budget of \$151,873 includes \$18,982 for central garage charges, \$99,892 for salaries/benefits/travel, and \$28,009 for rental equipment, parts, supplies, landfill disposal fees, and land maintenance materials (limerock, shell, rock, fill, and fencing). The proposed FY2008 budget of \$335,815 includes \$181,873 for central garage charges, rental equipment, parts, supplies, landfill disposal fees, and land maintenance materials (limerock, shell, rock, and fill), \$25,000 for engineering consulting services, \$10,000 for fencing repairs at various structures, and \$135,000 for the Lake Fannie berm repair.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	2,575,662	517,731	601,058	0	3,694,451
011 Alafia River Basin	212,270	41,732	73,381	0	327,383
013 Hillsborough River Basin	1,621,225	303,270	557,009	200,000	2,681,504
014 Northwest Hillsborough Basin	152,160	33,883	30,930	0	216,973
015 Coastal Rivers Basin	221,393	33,437	55,569	0	310,399
016 Pinellas-Anclote River Basin	432,778	95,428	142,067	0	670,273
019 Withlacoochee River Basin	465,373	177,166	164,100	0	806,639
020 Peace River Basin	643,058	151,873	335,029	0	1,129,960
021 Manasota Basin	141,091	37,284	37,683	0	216,058
			Total		\$10,053,640

Status As Of: July 06, 2007

Field Operations completed routine mowing and maintenance on water control structures and well sites as needed. Crews completed inspections at P-11 Water Control Structure Weed Barrier and sprayed aquatic weeds on Saddle Creek. Peace Creek Canal maintenance has occurred during this reporting period which included aquatic spraying from south of P-8 Canal to north of Highway (HW) 60. In addition, aquatic spraying and mechanical removal has occurred at select locations that could be accessed on the portions located south of HW 60.

Structure Operations 020

Project Type	Basin Initiatives
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River
Cooperator(s)	
Project Manager	BUDE, TANASE
Task Manager(s) Status	

Description

The B670 budget provides funding for the annual inspection, operation and maintenance of District water control structures. The District owns, maintains and operates ten water control structures in the Peace River Basin, most controlling regional lake systems which are central to the Lakeland-Winter Haven area of Polk County; these also provide flow to the Peace River. Structures on the eastern chain-of-lakes system in Winter Haven are maintained and operated by agreement with the Lake Region Lakes Management District (LRLMD). The District retains ownership of the four structures, P-5, P-6, P-7 and P-8, and reimburses the LRLMD for O&M costs related to these structures. These four facilities are primarily water conservation structures, but their operation is critical for flood management and mitigation. The Peace Creek Canal, (which is currently under the auspices of the Peace Creek Canal Commission), flows from Lake Hamilton and Structure P-8 near Dundee, south and east for 21 miles across broad flat flood plains. Saddle Creek Canal flows south from Lake Hancock and Structure P-11. These two systems converge near Bartow and form the headwaters of the Peace River. During high rainfall events, waters typically fill the canals and floodplains and discharge very slowly to the south, often creating localized flooding. From the confluence of these systems, the river flows approximately 87 miles into Charlotte Harbor in Charlotte County. Proper operation and maintenance of these Upper Peace Basin structures is critical for water conservation, aquifer recharge, floodplain management and downstream water supplies. Structure G-90 on Lake June-in-Winter in Highlands County is another important Peace Basin structure. The structure discharges flows from Lake Placid and Lake June into Jack Creek and Josephine Creek. Discharge capabilities are limited due to the potential for flooding downstream developments. An Emergency Action Plan (EAP) has been developed for the structure. The document contains detailed information for notification procedures in the event of a developing emergency situation and should be reviewed, updated and tested on a yearly basis.

Benefits

Structure Operations involves three areas of responsibility: inspections, maintenance (including construction and repair), and operation. A comprehensive structural/operational inspection program of water control structures, both above and below water, is required to discover deficiencies related to human safety (both public and District personnel), operational viability, and structural integrity of the structures. The objectives and benefits of the District's inspection program, and Structure Operations activities in general, are: (1) early discovery of structural/operational deficiencies and maintenance problems deficiencies, thereby forestalling costly repairs; (2) to find and mitigate safety hazards to District personnel and the public; (3) to prevent/preempt structure failure with thorough, regular inspections, thereby reducing the potential for loss of life and property; and, (4) to comply with applicable state/federal regulations and guidelines for inspection, operation and maintenance of water control structures. The program has one full-time inspector, who performs routine monthly inspections and oversees the reporting/work-order processes. The District also utilizes engineering consultants for inspection services on the more critical structures on a two-year rotational basis. Structure Operations section work orders are generated from inspection reports and the section's Five-Year Plan. Structure Maintenance activities range from routine servicing and replacement of equipment, to repair and construction of water control structures, to perform gate operations under established guidelines in response to developing weather events. The Structure Operations section is additionally responsible for monitoring water levels and rainfall totals across the District, and directing structure gate operations which are accomplished either manually or by remote control.

Costs

The FY2007 budget provides up to \$35,000 in annual reimbursement costs to the Lakes Regional Lakes Management District (LRLMD); \$25,000 for emergency and miscellaneous engineering services; \$65,000 for the installation of Digital Video Monitoring Services security cameras and \$50,000 for repair and maintenance to Structure G-90; and \$100,000 to complete embankment repairs to the Lake Hamilton (P-8) Canal. Remaining funds, approximately \$94,400 in Parts & Supplies, Rental of Equipment, Salaries, Central Garage, etc., are related to ongoing routine maintenance and operations. The proposed FY2008 budget of \$367,950 includes \$180,000 to repair or replace the four 72" corrugated metal pipes at P-8 structure. Also at P-8, \$28,000, is budgeted to replace the four gate lift devices which are in extremely poor condition. \$35,000 is budgeted to LRLMD for the operation and routine maintenance of structures P-5, P-6, P-7, and P-8. Additionally, \$75,000 is provided for emergency/miscellaneous engineering services, inspections, and the update to the G-90 Emergency Action Plan. \$4,000 is budgeted for the installation of a traffic guardrail system at the Structure G-90. Approximately \$54,000 is budgeted for Parts & Supplies, Rental of Equipment, Salaries, Central Garage, etc. related to ongoing routine maintenance and operations.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	491,703	493,189	476,740	0	1,461,632
011 Alafia River Basin	838,572	183,334	129,885	0	1,151,791
013 Hillsborough River Basin	4,285,130	944,867	672,093	0	5,902,090
014 Northwest Hillsborough Basin	1,316,622	214,655	187,673	0	1,718,950
015 Coastal Rivers Basin	70,153	7,612	0	0	77,765
016 Pinellas-Anclote River Basin	3,232,084	139,711	173,474	0	3,545,269
019 Withlacoochee River Basin	1,444,947	471,994	600,448	0	2,517,389
020 Peace River Basin	1,240,638	370,795	392,181	0	2,003,614
			Total		\$18,378,500

Status As Of: May 15, 2007

Recently the District's inspector visited every structure to confirm its operational readiness in advance of the 2007 hurricane season. Two weeks ago a repair was made to the boat lift at the P-7 structure. One of the piling caps that supported two sections of the boat lift railway had a large piece of concrete under one of the rails break away. The two rails were welded together to complete a structurally sound repair, then the concrete spall was repaired. Next week Structure Operations will begin jacketing all of the boat lift pilings at P-7. Each piling will be wrapped with wire mesh and a concrete form, from a point 4' above the current water level to the bottom of the canal. Once stabilized and sealed, they will be pumped full of cement. The District, and Lakes Region Lakes Management District continue with other routine maintenance and miscellaneous repairs.

Aquatic Plant Management - Peace River Basin

Project Type Basin Initiatives
AOR(s) Flood Protection
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Pinellas-Anclote River, Withlacoochee River, Peace River
Cooperator(s)
Project Manager NELSON, BRIAN
Task Manager(s) Status

Description

This project deals with the control of aquatic and ditchbank vegetation within the Peace Basin Canals and District maintained water control structures. This is an ongoing maintenance project.

Benefits

Excessive amounts of vegetation have the potential to reduce water flow capacity, hinder operation of the water control structures, hinder recreational use and navigation and cause the canals to become an eyesore.

Costs

The FY2007 budget is broken down as follows: Salaries/wages \$12,617, herbicides \$1,411, central garage charges \$1,064. FY2008 budget is broken down as follows: Salaries/wages \$15,044, herbicides \$1,340, central garage charges \$1,010 and travel \$149.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	30,913	4,012	4,175	0	39,100
013 Hillsborough River Basin	416,000	74,898	77,283	0	568,181
014 Northwest Hillsborough Basin	213,665	36,419	36,622	0	286,706
016 Pinellas-Anclote River Basin	49,195	2,608	3,828	0	55,631
019 Withlacoochee River Basin	246,054	40,078	41,700	0	327,832
020 Peace River Basin	110,035	17,329	17,531	0	144,895
			Total		\$1,422,345

Status As Of: July 06, 2007

Work has focused on vegetation management within the Peace Creek Canal system during this period. This operation is being charged to the H034 activity in funds 010 and 020.

Youth Water Resources Education

Project Type Basin Initiatives
AOR(s) Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s) General Fund (District), Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)
Project Manager O'NEIL, RAINA
Task Manager(s)
Status Ongoing

Description

This Basin Initiative provides funding for a variety of water resources education programs to county school districts, private schools, homeschool groups and non-formal educators. Program components consist of teacher-training workshops, mini-grants for classroom projects, field trip program support, Envirothon support and educational resources for students and educators. Teacher training efforts ensure that teachers understand and are able to teach students about relevant Basin issues. Training sessions provide background information, materials, experiences and opportunities to explore topics of importance in the basin. Teacher workshops are conducted by District staff and/or educators who have been trained by District staff. Participants evaluate the effectiveness of teacher workshops, providing another method of improving performance. Workshops include information about the District and the Basins, as well as basic hydrology and water management issues. The mini-grant program provides funds directly to teachers to implement classroom water education projects centered around current Basin issues. Classroom projects are designed to increase knowledge and understanding of the impacts of human activities on the water resources in their Basin and to effect behavior change in regard to water resources conservation and protection. Mini-grant projects must fall into one of six categories: watersheds, water conservation and supply, water quality, flood protection/drought education, alternative water sources or natural systems. Projects must also support the District Water Management Plan and align with the appropriate Comprehensive Watershed Management Plan. Measurable outcomes include documentation and evaluation of individual mini-grants including pre- and post-assessment scores, sample student work generated from the project, video or photographic documentation, and final reports by teachers and representative students. Mini-grant recipients are required to participate in Annual Sharing Days, which provide an opportunity for mini-grant participants to showcase their projects and provide model programs for other teachers who would like to implement water projects in their classrooms. The District provides a variety of educational resources to educators and students including student newsletters with accompanying teacher's guides, water-testing equipment, surface and groundwater models and others. The District also provides kits and boxes specific to water conservation (the grades K-3 Water Conservation Kit) and watersheds (the grades 4-8 Watershed Education Resources Box) that teach students about the importance of water conservation and healthy watersheds, while meeting Sunshine State Standards and preparing students for the Florida Comprehensive Assessment Test. Each of these resources includes a big book, several smaller books, a teacher's guide and other tools and materials used for role-playing and demonstrations. Each county has received kits and boxes for circulation, and these materials are available through the mini-grant program.

Benefits

The Youth Water Resources Education project forwards the District's mission by providing students, teachers and families classroom materials and opportunities for hands-on learning experiences that equip them to make informed decisions about water resources.

Costs

The FY2008 budget for youth education reflects no changes from FY2007. This highly effective program directly reaches 350,000 students and 11,000 teachers annually. Additionally, a total of 475,596 pieces of District water resources Youth Education publications were distributed in FY2006. Because most, if not all, of those involved in Youth Education programs also receive publications, a conservative estimate puts District outreach at 55 percent of the students in the District, at a cost of \$1.18 per person. Budget lines below include costs for staff to manage the projects.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
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District Budgeted - Ad Valorem Based Revenue

010 General Fund (Districtwide)	64,135	71,948	69,452	0	205,535
011 Alafia River Basin	288,068	68,191	70,519	0	426,778
013 Hillsborough River Basin	628,266	139,945	143,046	0	911,257
014 Northwest Hillsborough Basin	283,969	68,323	68,390	0	420,682
015 Coastal Rivers Basin	287,780	69,003	69,140	0	425,923
016 Pinellas-Anclote River Basin	1,577,103	268,127	270,481	0	2,115,711
019 Withlacoochee River Basin	283,045	69,003	68,403	0	420,451
020 Peace River Basin	672,403	205,353	209,556	0	1,087,312
021 Manasota Basin	374,233	98,073	100,100	0	572,406
				Total	\$6,586,055

Critical Project Milestones	Projected	Amended	Actual
Program Commence for School Board agreements	8/1/06		8/1/06
Mini-grants selected	9/15/06		9/15/06
Mini-grant projects complete	5/1/07		5/1/07
School Board agreement program complete	7/30/07		
2007-2008 School Board agreements executed	8/1/07		
Final reports submitted to District	8/30/07		

Status As Of: June 29, 2007

Teacher Training: District staff has worked to address changes in professional development requirements for teachers. The changes reflect an emphasis on reading and writing as well as new instructional design models. District YE staff worked in partnership with USGS and American Ground Water Trust to provide a series of two-and-a-half day Ground Water Institutes this spring. The Ground Water Institutes provide an overview of hydrology, water quality issues and the dynamics of surface water and ground water interactions. One workshop was held in June 2006 in the Peace River Basin with 24 participants and three additional workshops were held from April-June 2007 in Crystal River, Sarasota and Tampa Bay reaching a total of 70 teachers. Publications: New materials are continually being developed and existing materials are updated frequently to ensure they contain accurate information. A WaterDrops Activity Packet featuring 12 hands-on activities for students in grades 3-5 was recently completed. So far this fiscal year, the Youth Education staff distributed 582,067 pieces of water resources education materials. Mini-Grants: 100 mini-grants were funded in the 2006-2007 school year. Over \$221,900 in funding was provided for classroom grant projects. The 2007-2008 grant applications are now available at WaterMatters.org/mini-grants. Legacy: Youth Education staff and District Land Department staff are working together to expand the Legacy Program to include greater diversity among users of District-owned lands. Legacy, a hands-on program that explores the principles of land management, provides youth an opportunity to serve as land stewards on District or public lands. New Legacy Programs are being planned for Weedon Island Preserve, in partnership with Pinellas County. Several mini-grant projects have been identified as possible Legacy projects and District staff has met with these teachers to discuss project expansion. Watershed Education: District staff continues to support the teachers in the Brooker Creek watershed with Splash! mini-grant funding and technical assistance with projects. A series of Peace River Watershed Awareness events were held April 14-21, 2007. These extremely successful events highlighted the Peace River watershed and helped to identify actions people can take to protect this valuable resource. In the middle two events students and teachers from Hardee and DeSoto Counties spent time along the Peace River participating in guided nature hikes, canoe trips, storytelling, among other activities. In addition to traditional watershed education tools, three new web-based virtual watershed excursions are being developed in FY2007, including the Myakka River, the Alafia River and an updated Hillsborough River excursion. All three excursions will highlight District lands and recreation opportunities throughout the watersheds.

Public Education

Project Type Basin Initiatives
AOR(s) Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)
Project Manager PUTNAM, BETH
Task Manager(s) ANTOINE, KENDRA, MORGAN, DORIAN, DURELL, SYLVIA, ROE, MELISSA
Status Ongoing

Description

This Basin Initiative provides funding for a variety of projects designed to inform and educate the public about the importance of managing and protecting the water resources. All programs align directly with one or more of the District's areas of responsibilities and with the District's Water Management Plan, Basin priorities and the appropriate Comprehensive Watershed Management Plans. The District's broad range of public education programs and materials reflect the variety of backgrounds and interests of the District's residents and visitors. Some of the projects are implemented Districtwide with support from all the basins, while some are basin specific and supported only by the basin(s) who will benefit from the project(s). Districtwide programs include media messaging, surveys and other evaluation measures, translation services for Spanish materials and Florida-friendly landscaping education. Basin-specific programs reflect differing priorities as well as unique opportunities. Examples are Community Education Grants, watershed education programs, Low Impact Development workshops, virtual watershed tours, special events, partnerships with local environmental education centers and nonprofits and others.

Benefits

The programs listed benefit the District through an increase in awareness and understanding of water management and water resource issues, as well as an increase in behaviors more likely to result in conservation and protection of the water resources and watersheds.

Costs

Funding for public education is budgeted within the basins for FY2008 as follows: Alafia River - \$74,408; Hillsborough River - \$179,413 Northwest Hillsborough - \$80,882; Coastal Rivers - \$72,832; Pinellas-Anclote River - \$318,536; Withlacoochee River - \$90,549; Peace River - \$181,005; Manasota - \$138,955. Budget lines below reflect this increase. Budget lines below include costs for staff to manage the project. To ensure faster response to emergency water shortage conditions in FY2008, budgets for media messaging have been increased by \$250,000 with Governing Board contributing \$100,000 and the basin boards contributing \$150,000 proportionally according to population. In addition, the Governing Board will contribute \$410,006 to support these efforts in FY2008. Based on the total number of people reached through the public education materials and programs in FY2006 (4,398,431), the cost for FY2008 is projected to be approximately \$0.35 per person. This cost/benefit ratio does not include those reached via media messaging, which is measured in impressions, and is projected to cost the District less than five hundredths of a cent per impression.

Additional Information

Community Education Grants: 72 applications were received. Forty-nine projects were approved totaling more than \$170,000. Projects may be implemented March 1 through June 30, 2007. Basin board funding breakdown is as follows, total number of projects is in parenthesis: Alafia \$12,025 (11), Coastal \$22,757 (5), Hillsborough \$23,903 (12), Manasota \$20,000 (7), NW Hillsborough \$4,454 (4), Peace \$30,000 (12), Pinellas-Anclote \$43,305 (12), Withlacoochee \$15,000 (6). Twelve additional projects with regional benefit are funded by multiple basins.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	1,794,462	399,129	410,006	0	2,603,597
011 Alafia River Basin	325,690	69,255	74,408	0	469,353
013 Hillsborough River Basin	821,679	170,587	179,413	0	1,171,679
014 Northwest Hillsborough Basin	350,637	76,080	80,882	0	507,599
015 Coastal Rivers Basin	339,746	65,206	72,832	0	477,784
016 Pinellas-Anclote River Basin	1,800,422	293,885	320,430	0	2,414,737
019 Withlacoochee River Basin	460,751	85,710	90,549	0	637,010
020 Peace River Basin	682,370	168,411	181,635	0	1,032,416
021 Manasota Basin	516,443	121,964	138,955	0	777,362
			Total		\$10,091,537

Critical Project Milestones	Projected	Amended	Actual
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FY2007 Community Education Grants Activities

Post application and guidelines on Web site	7/15/06		7/15/06
Advertise/promote CE Grant Program	9/15/06		9/15/06
Applications deadline	9/15/06		9/15/06
Applications sent to BBEC for review	11/14/06	10/27/06	10/27/06
Announcement of allocations to CE Grant recipients	1/11/07		1/11/07
Grant recipient required workshops	2/28/07		2/28/07
End of projects' work period	6/30/07		6/30/07
Final reports due	7/27/07		
Requests for reimbursements	8/17/07		
Basin Boards informed of grant allocations	12/15/07		

FY2007 Media Messaging

Media schedule development	11/30/06		11/30/07
Spring media buy	1/15/07		1/15/07
Dry season media buy (contingency only)	4/30/07	4/1/07	4/1/07

Status As Of: June 28, 2007

Behavior Change Pilots: Staff assisted Land Resources Department with a survey of District residents concerning their opinions of recreational opportunities on District-owned conservation lands. The final report will be presented to the BBEC/BBLRC on July 12. The following pilot programs are underway: "Measuring Landscaping Normative Behavior Change" seeks to quantify long-term effects of stormwater pollution reductions resulting from landscaping behavior changes in the Sarasota area. Focus groups have been conducted and a report of the findings is expected within the next few weeks. The "Brooker Creek Watershed Community Outreach Program" is three neighborhoods adjacent to the Preserve. The last task, a Florida-friendly demonstration garden in a common area of Brooker's Landing, has been delayed to give the community time to dredge a pond and prepare the area for planting. A new pilot program is being planned to decrease lawn watering during two three-month periods: December through February and July through Sept. A consultant has been hired and focus groups will soon be held to determine barriers to changing desired behaviors. The program will be evaluated by measuring and comparing outdoor water use. Media Messaging: In response to persisting weather conditions, an emergency media buy was placed in April and May using the Governing Board-approved contingency funds of \$250,000. To ensure faster response to emergency conditions in FY2008, budgets for media messaging have been increased by \$250,000: \$100,000 from the Governing Board and \$150,000 from the basin boards. Budget lines above reflect this increase. Staff is also requesting an additional \$150,000 in supplemental funds from the Governing Board in order to begin negotiations for the new media messaging 12-month schedule. In addition to the paid media, the District is working with Albertsons to broadcast the District's water conservation radio ads for free in its grocery stores throughout the District for six weeks in July and August. The District partnered with SFWMD and SJRWMD to place an ad in the Publix newspaper circular during June. Other media outreach efforts are being researched. Diversity Outreach: A summer intern is assisting with diversity outreach efforts, such as materials translation, the District's Spanish web page and press releases in Spanish. Florida-Friendly Landscape Education: To prepare for the District's FY2009 media campaign encouraging residents to hire certified landscape maintenance professionals, staff is working through the Landscape Education Coordination Initiative (LECI) with the two certifying bodies (FNGLA and LMA) to ensure incorporation of Florida-friendly landscaping principles into landscape maintenance certification programs. To prepare for demand, the District will help FNGLA and LMA promote the certification programs to landscape maintenance companies and has proposed logo designs that incorporate the term "Florida-Friendly Yard" into the associations' logos. FYN Community Association Outreach: a total of 31 site visits were conducted in Pinellas, Hillsborough, Pasco and Polk counties. Community Education Grants: 2008 applications, due August 24, are now available at WaterMatters.org/communitygrants. Two completed 2007 projects follow: The Homosassa River Alliance's "Protecting the Homosassa Watershed" project directly impacted 245 participants about threats to the watershed and what can be done to protect it. The project included an animated presentation, a boat tour of the Homosassa River and a lesson in testing water quality. As a result, additional presentations have been scheduled and homeowners have reportedly retrofitted their waterfront landscapes. The Marion County Citizen's Coalition's "Transfer of Development Rights (TDR)" project directly impacted 150 participants about land preservation for watershed protection. Five workshops educated landowners, developers and citizens about the TDR Program and Farmland Preservation Area in northwest Marion County. Education components demonstrated the economic, environmental and community value associated to transferring development rights from rural areas to infill the urban areas. As a result, two proposed density increases were approved with accompanying transfer of development rights during the May 2007 large scale land use cycle. Approximately 400 acres in Marion County will be preserved as a result of these transactions. Both of these transactions are the direct result of developer participation in the workshops. Watershed Education: The Lakes Education/Action Drive (LE/AD) distributed 2 quarterly newsletters and participated in and planned several special events. Hillsborough River watershed education plans are being reshaped after the withdrawal of L416 and W310. District staff, working with various partners, is planning

Watershed Awareness Week October 21- 27, to culminate with the Hillsborough River Watershed Alliance's "A River Runs Through It" scheduled to be held at the Hillsborough River State Park Oct. 27. Other activities being discussed for that week: a series of decision-makers workshops coordinated by the American Ground Water Trust; watershed programming, kiosks and signage at the Hillsborough River State Park; watershed signs on major Hillsborough County roads crossing water bodies. Education efforts will concentrate on stormwater runoff. Additional research is planned to provide input to the development of an education strategy most likely to foster sustainable behavior change.

Peace River Regional Reservoir Expansion

Project Type	NWSI
AOR(s)	Water Supply
Basin(s)	General Fund (District), Peace River, Manasota
Cooperator(s)	Peace River/Manasota Regional Water Supply Auth.
Project Manager	ARMSTRONG, BRIAN
Task Manager(s)	
Status	Ongoing/No FY\$

Description

This is an alternative water supply project that will expand the surface water storage capacity of the Peace River/Manasota Regional Water Supply Authority's water supply facilities by constructing a six (6) billion gallon reservoir. The total cost to construct the reservoir is estimated at \$49 million.

Benefits

In combination with project F033, which will expand the Authority's water treatment plant capacity from 24 to 48 mgd, this project will enable the Authority to supply up to their permitted amount of 32.7 mgd on an annual average basis.

Costs

The total estimated project cost is \$49,000,000. The District's anticipated total funding contribution is \$18,414,755. This cost may be reduced depending on future funding received from the State, as described in Senate Bill 444. To date, \$6,533,975 has been budgeted for the project from SB 444. It is anticipated that, of the District's projected total funding contribution of \$18,414,755, the District Governing Board will contribute \$9,208,917, the Manasota Basin Board will contribute \$6,678,937 (73 percent of the total basin board contribution), and the Peace River Basin Board will contribute \$2,526,901 (27 percent of the total basin board contribution).

Additional Information

Because of the uncertainty associated with permitting new ASR wells due to mobilization of arsenic in the aquifer, the Authority proposed removing the ASR component of the Peace River Facility Expansion Project (F033). As a result, the Authority needed additional storage capacity and requested amending this project to increase reservoir capacity from two (2) to six (6) billion gallons. In October 2005, the Peace River and Manasota Basin Boards and the Governing Board approved increasing the size of the reservoir and deleting the ASR wells from the Facility Expansion project. The Peace River facility is located in DeSoto County and provides potable water to residents of Charlotte, DeSoto and Sarasota Counties. As configured in 2005, the Facility includes a surface water withdrawal from the Peace River, a 625 million gallon reservoir (85 acres), a 24 mgd surface water treatment plant, and 21 Aquifer Storage and Recovery (ASR) wells capable of storing up to 1 mgd each. Because the Peace River experiences significant periods of low flow, it is important for the Authority to have sufficient capacity to store excess flows during wet periods for use during dry periods when river flows are insufficient to meet demands. Withdrawals from the Peace River are prohibited when flows, as measured at the Arcadia gage, are less than 84 mgd (130 cubic feet per second (cfs)). The Authority's customers have identified an additional demand of 15 mgd beyond the 18 mgd that is currently provided by the Authority's Facility, for a total 2015 demand of 33 mgd. The combination of this project and the Peace River Facility Expansion (F033) will allow the Authority to deliver a permitted capacity of 32.7 mgd to its customers at a total cost of \$142,400,000. The project is a critical component of the District's SWUCA water supply plan by providing users in the coastal areas, where there is the greatest threat of saltwater intrusion, with supplies other than ground water. Of the total project cost (\$49 million), approximately 85 percent (\$41.8 million) is expected to be needed for construction, and the remainder for design, permitting, and administration.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	5,044,645	1,073,538	2,355,877	0	8,474,060
020 Peace River Basin	1,401,634	289,646	630,176	0	2,321,456
021 Manasota Basin	3,636,547	783,116	1,703,811	0	6,123,474
District Budgeted - Outside Revenue					
Water Protection & Sust T.F. (Alternative Wtr)	2,634,760	2,996,938	2,480,945	0	8,112,643
Project Funds Not Budgeted by the District					
PR/MRWSA	11,611,914	9,645,247	3,194,109	0	24,451,270
			Total		\$49,482,903

Critical Project Milestones	Projected	Amended	Actual
Design Commence	2/1/03		2/5/03
Draft Agreement to Contract Administration	4/1/03		
Draft Agreement returned from Contract Administration	5/1/03		6/6/07

Peace River Basin Board Approval of Agreement	6/2/03	6/13/03
Manasota Basin Board Approval of Agreement	6/2/03	6/18/03
Governing Board Approval of Agreement	6/2/03	6/24/03
Contract Executed	8/1/03	12/18/03
Notice to Proceed	8/1/03	12/18/03
Basis of Design Report	9/30/05	11/9/05
Execute Amended Agreement	12/31/05	3/28/06
Detailed Plans and Specifications	9/30/06	9/30/06
Permitting	9/30/06	5/7/07
Bidding	11/15/06	
Award Construction Contract	11/30/06	
50% Construction Completion	11/30/07	
Completion of Construction	10/31/08	
Contract Termination	10/1/16	

Status As Of: July 06, 2007

The Project was originally approved in August 2001 for inclusion in the Peace River Basin and Manasota Basin Boards' FY2002 budgets. Due to uncertainty involved in permitting Aquifer Storage and Recovery (ASR) wells resulting from the discovery of arsenic in water recovered from ASR systems and the lowering of the Federal drinking water standard for arsenic, the Authority has deferred the ASR component of the Facility Expansion (F033) project. This deferral resulted in increased costs and changes to the scope of work associated with this project. The revised scope calls for an increase in the reservoir from 625 million gallons to 6 billion gallons. Additionally, the cost of the project increased from \$29.8 million to \$49 million. The District's Governing Board and Peace River and Manasota Basin Boards approved amending the existing contract in October 2005 to reflect the changes in scope and cost. Final design for the Regional Reservoir Expansion has been completed and the Environmental Resource Permit (ERP) was deemed complete in June. It is anticipated that the ERP permit will be issued by early August, barring any objections. Bids for the Regional Reservoir Expansion were opened on Friday, June 8. The low bid of \$64,910,500 was 21 percent higher than the engineer's estimate. The Authority's consultant reviewed the bids for math mistakes or irregularities but it doesn't appear that the Bid will be reduced significantly as a result of this review. A workshop was held on June 29 2007 with the Authority's Member Governments to go over the bid. It is anticipated that the Authority will ask the District to provide additional funding as a result of the increased costs.

Peace River Facility Expansion

Project Type	NWSI
AOR(s)	Water Supply
Basin(s)	General Fund (District), Peace River, Manasota
Cooperator(s)	Peace River/Manasota Regional Water Supply Auth.
Project Manager	ARMSTRONG, BRIAN
Task Manager(s)	
Status	Ongoing/No FY\$

Description

This is an alternative water supply project that involves expansion of the Peace River Manasota Regional Water Supply Authority's water treatment facilities. Whereas, F032 is for the design and construction of a six billion gallon reservoir, this project is for the design and construction associated with expanding the water treatment plant capacity from 24 to 48 mgd. Additionally, this project will construct five miles of a 20-inch pipeline from the Authority's facilities to extended areas of DeSoto County to supply up to 5.5 mgd to the county.

Benefits

In combination with F032, this project will enable the Authority to supply up to their permitted quantity of 32.7 mgd on an annual average basis.

Costs

The total estimated project cost is \$74,400,000. The District's anticipated total funding contribution for the project is \$18,980,604. To date, \$12,161,599 has been allocated to the project from SB 444. It is anticipated that, of the District's projected total funding contribution of \$18,980,604, the District Governing Board will contribute \$9,866,796, the Manasota Basin Board will contribute \$6,613,592 (73 percent of the total basin board contribution), and the Peace River Basin Board will contribute \$2,500,216 (27 percent of the total basin board contribution).

Additional Information

The project originally included the construction of 24 Aquifer Storage and Recovery (ASR) wells for storage of excess river flows. However, because of the uncertainty involved in permitting ASR wells due to mobilization of arsenic in the aquifer, the Authority has deferred the ASR component of this project. The Authority provides public drinking water to residents of Charlotte, DeSoto and Sarasota counties. As configured in 2005, the facility includes a surface water withdrawal from the Peace River, a 625 million gallon reservoir (85 acres), a 24 mgd surface water treatment plant, and 21 ASR wells capable of storing up to one (1) mgd each. Because of the Peace River's seasonal flow pattern, characterized by significant periods of low flow that are insufficient for providing potable supply, the Peace River facility must possess the necessary capacity to capture, treat, and store high flows from the river when they occur so that sufficient reserves are available to meet customer demand during low flow periods. The Authority's water use permit allows them to supply up to 32.7 mgd on an annual average basis from the Peace River and prohibits withdrawals when river flow, as measured at the Arcadia gage, is less than 130 cubic feet per second (cfs). The reservoir and ASR wells provide water during the dry season when withdrawal from the river is prohibited to assure the environmental health of the downstream estuary. This project also includes the design and construction of a potable water transmission pipeline known as the DeSoto County Water Transmission Main, which extends from the Peace River Facility south across the Peace River, then south along Hwy 17, to the Wal-Mart Distribution Facility. This supply line is to serve potable water customers that DeSoto County Utilities has identified. The combination of this project and the Peace River Reservoir Expansion (F032) will result in approximately 24 mgd of additional supply at a total cost of \$123,400,000. The project is a critical component of the District's SWUCA water supply plan by providing users in the coastal areas, where there is the greatest threat of saltwater intrusion, with supplies other than ground water. Of the total project cost (\$74.4 million), approximately 86 percent (\$63,670,000) is expected to be needed for construction, and the remainder for design, permitting, and administration.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	9,870,015	777	19,701	0	9,890,493
020 Peace River Basin	2,500,172	0	0	0	2,500,172
021 Manasota Basin	6,613,473	0	0	0	6,613,473
District Budgeted - Outside Revenue					
Water Protection & Sust T.F. (Alternative Wtr)	2,853,470	9,308,126	3,756,693	0	15,918,289
Project Funds Not Budgeted by the District					
EPA Grant	9,000,000	0	0	0	9,000,000
PR/MRWSA	35,499,860	0	0	0	35,499,860
			Total		\$79,422,287

Critical Project Milestones	Projected	Amended	Actual
Transmission Line Construction Complete			
Transmission Line Design Commence	9/1/02		10/1/03
Consultant Selection	1/1/03		1/1/03
Transmission Line Design Complete	3/1/03		5/1/03
Draft Agreement to Contract Administration	4/1/03		6/9/03
Draft Agreement returned from Contract Administration	5/1/03		
Transmission Line Construction Commence	6/1/03		7/30/04
Peace River Basin Board Approval of Agreement	6/2/03		6/13/03
Manasota Basin Board Approval of Agreement	6/2/03		6/18/03
Governing Board Approval of Agreement	6/2/03		6/24/03
Contract Executed	8/1/03		10/13/04
Notice to Proceed	8/1/03		10/15/04
Transmission Line Construction Complete	3/1/04		9/7/05
Construction Complete	10/31/06		
Bidding	11/15/06		2/8/07
Award Construction Contract	11/30/06		3/19/07
Plans and Specifications	9/30/07		11/30/06
50% cOMPLETION	11/30/07		
Contract Closeout	10/1/16		

Status As Of: July 06, 2007

The Project was originally approved in August 2001 for inclusion in the Peace River and Manasota Basin Boards' FY2002 budgets. Due to uncertainty involved in permitting Aquifer Storage and Recovery (ASR) wells resulting from the discovery of arsenic in water recovered from ASR systems and the lowering of the Federal drinking water standard for arsenic, the Authority has deferred the ASR component of this project. This deferral resulted in decreased costs and changes to the scope of work. The cost of the project decreased from \$76.2 million to \$74.4 million as a result of removing the ASR wells. The District's Governing Board and Peace River and Manasota Basin Boards approved amending the existing contract in October 2005 to reflect the changes in scope and cost. Construction of the Facility Expansion Project will occur through three separate contracts. The first contract focused on site preparation, which began in December 2006 and was completed in May 2007. The second contract is for construction of a maintenance building, dewatering facility, filters, storage tanks, thickeners, and chemical feed and disinfection stations. In February the Authority received one bid for Contract 2 for major components of the Facility Expansion. The bid was approximately \$17 million over the original engineer's estimate of probable cost. Since receiving the bid, Authority staff and the contractor has negotiated a revised project cost \$14 million below the original bid price. The Authority's Board approved the revised cost and authorized staff to enter into an agreement with the contractor. A ground breaking ceremony was held on May 11, 2007 for the Facility Expansion. Even with the newly negotiated bid price, the overall revised project cost remains \$19 million over the original project cost in the contract between the District and the Authority. The third contract is for construction of an operations center; a notice to proceed with design is scheduled for summer 2007.

Lake Hancock Lake Level Modification

Project Type WS&R Dev.
AOR(s) Water Supply, Natural Systems
Basin(s) General Fund (District), Alafia River, Peace River, Manasota
Cooperator(s)
Project Manager DOWNING, HARRY
Task Manager(s)
Status Ongoing

Description

The Lake Hancock Lake Level Modification Project is part of the proposed strategy for achieving minimum flows and levels recovery for the upper Peace River established by the District. The goal of the Lake Level Modification Project is to store water by raising the control elevation of the existing outflow structure on Lake Hancock and to slowly release the water during the dry season to help meet the minimum flow requirements in the upper Peace River between Bartow and Zolfo Springs. Historically, Lake Hancock fluctuated more than a foot higher than it has during the past several decades. The project proposes to increase the normal operating level from 98.7 feet to 100.0 feet National Geodetic Vertical Datum (NGVD) by modifying the P-11 outfall structure. See H009 (Lake Hancock Outfall Structure P-11 Modification) for a description of that project. This proposed project will further the District's recent efforts to restore minimum flows in the upper Peace River, which is a major component of the District's SWUCA Recovery Plan. As such, it is funded as a Water Supply and Resource Development (WSRD) project.

Benefits

Raising the normal operating water level of Lake Hancock to 100.0 feet NGVD will provide the storage to meet approximately 50% of the Minimum Flows and Levels Requirements of the upper Peace River. It was also determined that raising of the operating level along with other District projects will help restore wetland function for several hundred acres of contiguous lands to Lake Hancock.

Costs

This is a multi-year funded project. Funding for this project is shared by the Governing Board (50 percent), Peace River Basin Board (25 percent), Alafia River Basin Board (12.5 percent) and Manasota Basin Board (12.5 percent). Basin Board funding percentages are based on Alafia, Manasota, and Peace Basin impacts to the loss of flows from the upper Peace River Watershed from ground-water withdrawals. As of 2007, the District has budgeted \$2,712,000 of which \$600,000 is from state appropriations and Ecosystem Trust Fund. For continued funding of future project steps, District staff is requesting \$2,000,000 in FY2008 for implementing the project, broken down as follows: District \$1,000,000 Peace River Basin Board \$500,000, Manasota and Alafia River Boards each \$250,000. The funds will be used for final design, permitting and construction of the infrastructure required for implementation provided the FDEP issues a Conceptual Permit for the project and the Governing Board authorizes moving forward with the project. Budgeted amounts listed in the table below include staff time. Land acquisition costs are not included. Additionally, \$92,000 is included in the FY2008 budget under project number S054 for design of improvements on the District's OFP property associated with the Lake Level Modification Project and \$750,000 in State Appropriations distributed among the basins according to the percentages listed above.

Additional Information

This project is being conducted in 3 Steps: Step (1) provided the preliminary evaluations and incremental probable costs for raising the normal high operating levels of Lake Hancock to 99.5, 100.0, and the target 100.5 feet from the current level of 98.7 feet. Step (1) is complete with a recommended target level up to 100.0 feet. The results of Step 1 were presented to the boards with a staff recommendation for moving forward with Step (2) of the project in October 2004. Step (2) involves the generation of the detailed information necessary to submit a complete Conceptual Environmental Resource Permit (ERP) Application, and to specifically identify impacts to private lands for acquisition and other mitigation needs (environmental, facilities, etc). Major components of the Conceptual ERP include: pre and post condition analysis; private property, dwelling, environmental, and infrastructure mitigation; outfall structure operation characteristics; and an anticipated fluctuation schedule for the Lake. Step (3) is the implementation of the mitigation components as specified in the Conceptual ERP. Costs for design, ERPs, and construction for environmental and infrastructure mitigation requirements have not been determined. The Project will be coordinated with H014 which will look at improving water quality released from the lake.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	1,024,588	199,698	1,043,387	8,625,000	10,892,673
011 Alafia River Basin	253,917	50,137	262,035	2,156,250	2,722,339
020 Peace River Basin	482,507	103,115	526,001	3,687,500	4,799,123
021 Manasota Basin	253,917	50,137	262,035	2,156,250	2,722,339

District Budgeted - Outside Revenue

Ecosystem Trust Fund - Lk Hancock Lk Level	0	300,000	750,000	0	1,050,000
Water Protection & Sust T. F. (Surface Wtr Rstr)	300,000	0	0	0	300,000
			Total		\$22,486,474

Critical Project Milestones

1. Step (1) Preliminary Evaluation

	Projected	Amended	Actual
1. Preliminary Identification of Potentially Affected Parcels	10/30/02		10/30/02
2. Advertise Request for Proposals	12/20/02		12/20/02
3. Select and Approve Consulting Firm	12/30/02		12/30/02
4. Develop Project Scope of Work	12/30/02		2/27/03
5. Begin Contract Negotiations	2/27/03		3/15/03
6. Enter into Contract	5/23/03		5/14/03
7. Provide Preliminary Results	4/28/04		6/15/04
8. Board Action for Step (2)	9/27/04		10/26/04

2. Step(2) Preliminary Design and Conceptual Permitting

1. Amend Contract with BCI, Inc. for Conceptual Permitting	11/3/04		11/3/04
2. Permitting of NCLF Phase III Expansion	3/29/05		3/29/05
3. NCLF Evaluation for Project Effects	3/31/05		12/20/05
4. Develop Project Mitigation Strategies	6/30/05		12/30/05
5. Approve Mitigation Strategies	8/30/05		7/25/06
6. Submit CERP Application	10/14/05		8/31/06
7. Obtain CERP	3/31/06		6/14/07
8. Board Authorization of Project	9/25/07		

Status As Of: June 26, 2007

The Preliminary Evaluation Report (Step 1) for Lake Hancock by BCI, Inc., is complete and was approved by the Governing Board in October 2004 for initiating preliminary design and conceptual permitting to raise the lake operating level from 98.7 to 100.0 feet (Step 2). With the approval of the Governing Board (October 26, 2004), District staff amended the contract and entered into a Work Order with BCI Engineers and Scientists, Inc. to begin Step (2) of the project on November 3, 2004. As part of the permit application process, District staff had several pre-application meetings with North Central Land Fill (NCLF), FDEP, and the USACE staff since December 2004. The meetings were to familiarize FDEP and the USACE with the project so that a near complete Conceptual Environmental Resource Permit (CERP) application could be submitted. District staff also met and continues to meet and address questions raised by residents in the area. The Governing Board at their January 24, 2006 meeting authorized staff to submit a conceptual ERP application to the FDEP and the United States Army Corps of Engineers to raise the control elevation up to 100 feet NGVD to help meet the low flow requirements of the upper Peace River, upon reaching agreement through a Memorandum of Agreement (MOA) with Polk County. The Board authorized staff to develop a MOA with Polk County for the Lake Level Modification Project. With the approval of the MOA by the District at the July 2006 meeting, a Conceptual ERP application was submitted to FDEP on August 31, 2006 for permitting. Current Status: A Request for Additional Information (RAI) dated, November 29, 2006, was received by the District from FDEP. The District provided a response to the RAI on February 7, 2007, that addressed questions on: Wetlands, both quantification of impacts and expected enhancements as a result of raising the lake level; verification of parameters and model code used in the water routing model; sovereign submerged lands; any necessary local approvals; secondary impacts and ownership and control of potentially impacted properties. The District scheduled a meeting with FDEP on March 5, 2007 to go over the RAI response and provide further clarification. FDEP provided notice by letter to the District that the application was complete. The District is also coordinating with the USACE regarding application review. On May 8, 2007, the FDEP provided the District with a Notice of Intent to Issue a Conceptual ERP and Conceptual Public Easement to Use Sovereign Submerged Lands for the Project. The District provided public notice of the intent and on June 14, 2007 the District received the Conceptual ERP from FDEP for the project.

Lake Hancock Outfall Treatment System

Project Type	WS&R Dev.
AOR(s)	Water Quality, Natural Systems
Basin(s)	General Fund (District), Peace River
Cooperator(s)	
Project Manager	HAGBERG, JANIE

Task Manager(s) Status

Description

The Lake Hancock projects are critical in the District's strategies for meeting the minimum flows in the Upper Peace River, improving water quality in the Peace River, and protecting Charlotte Harbor, an estuary of national significance. The goal of the Lake Hancock Outfall Treatment Project is to improve water quality discharging from Lake Hancock through Saddle Creek to the Peace River. Historical data has shown that the Saddle Creek drainage basin, one of nine sub-basins in the Peace River Watershed, contributes approximately 6 percent of the total flow of the Peace River, yet contributes approximately 13 percent of the watershed's total annual nitrogen load. Nitrogen has been identified as the primary target nutrient in restoring water quality in the Peace River and preventing degradation of Charlotte Harbor, a Surface Water Improvement and Management priority water body. The Peace River ecosystem routinely suffers from algae blooms during periods of low flows and warm weather. These events not only affect the fish and wildlife associated directly with the river and estuary, but also affect the region's largest potable surface water supply system, operated by the Peace River/Manasota Regional Water Supply Authority. Many of the basins along the Peace River, including Lake Hancock, have been identified by the Florida Department of Environmental Protection as impaired under the Clean Water Act, requiring that Total Maximum Daily Loads be established. Furthermore, nitrogen loads have been predicted to increase significantly over the next 20 years as a result of growth. Water quality treatment of discharges from Lake Hancock has been identified as the most cost effective means of reducing nitrogen levelloads into the Peace River and Charlotte Harbor. The District has acquired the 3,500-acre, planned Old Florida Plantation development property. Portions of this tract of land are planned to be utilized for the outfall treatment project. An engineering consultant has been retained to conduct a feasibility study of applicable treatment technologies; design and permit the selected alternative; and to provide construction management services. The project involves five tasks: (1) Research, Monitoring and Data Acquisition, (2) Feasibility Study, (3) Design and Permitting, (4) Construction, and (5) System Start-up and Operation. Task 1 provides information necessary for evaluation of various treatment technologies and for design of the full-scale treatment system. Task 2, Feasibility Study, involves two elements: a) evaluation of applicable treatment technologies and ranking based on expected performance, cost, proof of concept, and other factors; and b) geotechnical and potential constructability testing. Task 3 involves design and permitting of the selected treatment system and includes preparing construction plans and specifications. Task 4 involves procuring a contractor through the competitive bid process for construction of the treatment system. Task 5 involves treatment system start-up and optimization of system performance to achieve target nutrient removal. The District is responsible for long-term operation and maintenance.

Benefits

The project addresses water quality and natural systems District objectives. The project's load reduction goal is expected to offset the load increases projected to occur over the next 19 years to Charlotte Harbor from the Peace River Basin. Water quality improvements in the Upper Peace River from the project will improve natural systems along the river. The creation of an 1,000-acre functional marsh system will provide habitat where historic mining has altered the landscape.

Costs

This is a multi-year funded project. In fiscal years 2003, 2004, and 2006, \$16,185,446 was budgeted as follows: \$13,435,446 from Florida Forever, \$1,450,000 from state appropriations and \$1,300,000 from the United States Environmental Protection Agency. The proposed FY2008 budget of \$1,250,000 is split between the Governing Board (\$312,500), Peace River Basin (\$312,500), revenue from the State Surface Water Restoration fund (\$325,000) and revenue from a state appropriation (\$300,000). District funds shown in the table include staff salaries.

Additional Information

An engineering consultant has been retained to conduct a feasibility study of applicable treatment technologies; design and permit the selected alternative; and to provide construction management services. The project involves five tasks: (1) Research, Monitoring and Data Acquisition, (2) Feasibility Study, (3) Design and Permitting, (4) Construction, and (5) System Start-up and Operation. Task 1 provides information necessary for evaluation of various treatment technologies and for design of the full-scale treatment system. Task 2, Feasibility Study, involves two elements: a) evaluation of applicable treatment technologies and ranking based on expected performance, cost, proof of concept, and other factors; and b) geotechnical and potential constructability testing. Task 3 involves design and permitting of the selected treatment system and includes preparing construction plans and specifications. Task 4 involves procuring a contractor through the competitive bid process for construction of the treatment system. Task 5 involves treatment system start-up and optimization of system performance to achieve target nutrient removal. The District is responsible for long-term operation and maintenance.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	89,456	34,469	356,145	1,250,000	1,730,070
020 Peace River Basin	84,672	35,718	353,286	1,250,000	1,723,676
District Budgeted - Outside Revenue					
Ecosystem Trust Fund - Charlotte Hbr/Upper Peace	1,450,000	0	300,000	0	1,750,000
FL Forever-Lk Hancock Outfall Treatment	13,435,446	0	0	0	13,435,446
State SWIM/Surface Wtr Rstr Rebudget Prior Year	0	0	325,000	0	325,000
U.S. EPA - Lake Hancock (H014)	500,000	0	0	0	500,000
U.S.EPA - Upper Peace River Restoration	800,000	0	0	0	800,000
			Total		\$20,264,192

Critical Project Milestones**1. Critical Project Milestones**

	Projected	Amended	Actual
Coordination Meeting with District staff	8/15/02		8/15/02
Coordination Meeting with other agencies	9/30/02		11/22/02
Complete Initial Review/Site Visits of Similar Projects	2/1/03		1/31/03
Draft Request for Proposals	3/1/03		3/1/03
Consultant Agreement Executed	1/25/04		1/24/04
Alternative Treatment Technology Evaluation	12/31/04	4/30/06	4/30/06
Monitoring/Data Acquisition/Research	3/31/05		3/31/05
Basis of Design Report	6/30/07		
Design/Permitting	8/30/08		
Construction	6/30/10		

Status As Of: July 05, 2007

The project was presented to the full Governing Board on February 21, 2006. Two action items were approved by the Board and they are: (1) an annual nitrogen load reduction from surface water discharges from Lake Hancock of 27 percent and (2) selection of treatment wetlands as the technology to achieve this goal. The project results were presented to the Peace River Basin Board in April 2006 and the action items were approved. The District's consultant (Parsons) was tasked with conducting geotechnical testing at the proposed location of the treatment wetlands, investigation into proposed wetland systems configurations, and a Basis of Design Report (BODR). This report establishes the objectives, data, and assumptions that form the foundation of design (configuration of wetland cells and infrastructure). Preliminary design plans are also part of this deliverable. The consultant submitted the draft BODR in April. District comments were provided to the consultant June 11, 2007. A final review copy should be submitted by mid-July. Constructability testing was conducted the week of June 11th. Observations made during this phase will characterize site conditions and insight into potential construction methods. More than eighteen test pits were excavated by a contractor across the site. In addition, six plots, totaling approximately 1.25 acres were constructed for a plant establishment study and exotic plant control study. All of the earthwork, including the test pits were video taped so that potential bidders for the large-scale project have knowledge of site conditions. The contractor completed work June 15th. The installation of equipment and plants for the plant establishment/exotic control study was complete June 22nd. The vegetation study will continue for one year and will provide data regarding plant establishment and growth, water quality and exotic plant control. Funds for design and permitting need to be added to the consultant agreement. An amendment will be negotiated for the design and permitting phase.

Irrigation Well Back-Plugging Program

Project Type WS&R Dev.
AOR(s) Water Quality, Natural Systems
Basin(s) Alafia River, Peace River, Manasota
Cooperator(s)
Project Manager CHWALA-GRANT, SUZANNE
Task Manager(s)
Status Ongoing

Description

Two Class I surface water bodies, Shell Creek and Prairie Creek, sustain the City of Punta Gorda's drinking water reservoir. In the fall of 2000, the City of Punta Gorda contacted the Florida Department of Environmental Protection (FDEP) and the District concerning the decline in reservoir water quality. Investigations conducted by District staff indicate that agricultural pumping in the highly productive zone of the Floridan aquifer was causing localized upward movement of poor-quality water into production wells and subsequent runoff into the surface water systems. Another area of concern was in coastal and southern regions of the Southern Water Use Caution Area (SWUCA) where ground-water quality in the highly productive, deep portion of the Floridan aquifer is generally marginal to poor. An irrigation well back-plugging program was established to improve water quality in the region's surface water systems.

Benefits

Back-plugging to a recommended well depth helps to sustain surface water resources for public supply, assist in maintaining groundwater resources for the agricultural community and potentially improve crop yield by using better quality ground water for irrigation.

Costs

Qualified property owners are eligible for some or all reimbursement costs (not to exceed \$5,000 per well) to have deep artesian wells back-plugged and for costs (not to exceed \$1,500 per well) to have their pumps pulled and reset. The amount reimbursed is determined by the well's depth and diameter. There is no maximum amount allowed for an individual landowner with multiple wells. The Shell, Prairie, and Joshua Creek watersheds are considered a priority area for the back-plugging program.

Additional Information

A SWFWMD brochure is available outlining the Facilitating Agricultural Resource Management Systems (FARMS) Well Back-Plugging Program and the Quality of Water Improvement Program (QWIP), two initiatives for improving water quality through precision well-plugging.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	517,848	71,345	56,875	0	646,068
011 Alafia River Basin	8,456	29,633	5,787	0	43,876
020 Peace River Basin	614,930	39,901	28,549	0	683,380
021 Manasota Basin	0	18,000	6,899	0	24,899
			Total		\$1,398,223

Status As Of: June 15, 2007

The total number of back-plugged wells is 54, with 41 of these wells located in the priority area of the Shell, Prairie, and Joshua Creek (SPJC) watersheds. The average reduction in total dissolved solids (TDS) and chloride concentrations in SPJC are 54 percent and 67 percent, respectively. Maximum water quality reductions are 95 percent for TDS and 99 percent for chloride concentrations. The average pumping yield loss is approximately 23 percent. We are working on additional potential back-plugs in Prairie Creek Watershed. SWUCA: To date, 13 wells have been back-plugged in the SWUCA, outside of SPJC. Of these, five wells have been back-plugged in the Peace River Watershed, five in the Alafia River Watershed, one in the Horse Creek Watershed and two in the Manatee River Watershed. The average improvements in water quality achieved in the back-plugged irrigation wells outside SPJC are approximately 49 percent for total dissolved solids (TDS) and approximately 63 percent for chloride concentrations. These averages may improve when water quality results are in for the most recent back-plug. Maximum water quality reductions are 84 percent for TDS and 95 percent for chloride concentrations. Currently, yields for wells back-plugged in the SWUCA, outside of SPJC, have been reduced by an average of 31 percent.

Facilitating Agricultural Resource Management Systems Program

Project Type	WS&R Dev.
AOR(s)	Water Supply, Water Quality, Natural Systems
Basin(s)	General Fund (District), Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	Fl. Department of Agriculture & Consumer Services
Project Manager	ORENDORFF, BILL
Task Manager(s)	ESTES, CAROLE
Status	Ongoing

Description

The Facilitating Agricultural Resource Management Systems (FARMS) Program is an agricultural Best Management Practice (BMP) cost-share reimbursement program. The program is a public/private partnership developed by the District and the Florida Department of Agriculture and Consumer Services (FDACS). The purpose of the FARMS initiative is to provide an incentive to the agricultural community, within the District, to implement agricultural BMPs that will provide resource benefits that include water quality improvement; reduced upper Floridian aquifer withdrawals; and/or conserve, restore, or augment the area's water resources and ecology. FARMS is intended to assist in the implementation of the District's Regional Water Supply Plan.

Benefits

The goal for the FARMS program is to offset 40 mgd of ground water within the District by 2025. Ground water use reductions not only benefit the Floridan aquifer but also can improve surface water quality in areas where ground water is highly mineralized. According to the District's Water Management Information System (WMIS), there are 6,395 permitted agricultural permits in the District, with a combined permitted annual average daily ground water quantity of 699,485,000 gpd. Since actual use of permitted quantities is dependant on hydrologic conditions, one of the main goals of the FARMS program is to provide cost-share that helps reduce ground water use, regardless of hydrologic conditions. Therefore, FARMS projects not only offset ground water use with surface water but also try to increase the overall efficiency of irrigation water use. Each project's performance is tracked to determine its effectiveness.

Additional Information

FARMS also funds a limited amount of non-project related outreach activities and data collection efforts in support of the Program. These include: IFAS Flatwood Citrus BMP Implementation. The District will provide \$50,000 to this project for three years for a total of \$150,000. This is an outreach effort by IFAS that furthers the goals of FARMS Program in the SPJC watersheds, in addition to growers within Manatee, Hardee, Sarasota, DeSoto, and Charlotte Counties. IFAS Row Crop BMP Implementation. The District will provide \$50,000 to this project for two years, and \$55,000 in the final year for a total of \$155,000. This is also an outreach effort by IFAS that furthers the goals of FARMS Program in Hillsborough, Manatee, Hardee, Sarasota, DeSoto, and Charlotte Counties. Finally for the Upper Myakka Surface-Water Quality Monitoring Network - funding for the deployment of data sondes at seven USGS gage sites in the UMRW has been approved. The network will assist in better understanding agricultural impacts on Flatford Swamp and in determining the effectiveness of FARMS projects.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	1,897,558	621,742	794,087	0	3,313,387
011 Alafia River Basin	64,922	56,571	103,923	0	225,416
013 Hillsborough River Basin	0	0	59,311	0	59,311
015 Coastal Rivers Basin	0	0	0	0	0
019 Withlacoochee River Basin	0	0	82,147	0	82,147
020 Peace River Basin	1,238,848	200,920	332,218	0	1,771,986
021 Manasota Basin	457,920	219,056	153,986	0	830,962
District Budgeted - Outside Revenue					
DACS - FARMS (H017)	1,000,000	0	650,000	0	1,650,000
Ecosystem Trust Fund - Charlotte Hbr/Upper Peace	2,250,000	0	0	0	2,250,000
Ecosystem Trust Fund - FARMS	1,000,000	500,000	1,000,000	0	2,500,000
			Total		\$12,683,209

Status As Of: June 26, 2007

The FARMS Program has 41 Board Approved projects in five of the District's nine Basins. The Program is currently intended to address issues within the Southern Water Use Caution Area (SWUCA). Projected offset from the board approved projects is 10,606,360 gallons per day (gpd). **Peace River Basin.** The Peace River Basin has 25 Board approved FARMS project with a projected offset of 5,990,020 gpd. Of the board 25 projects in this Basin, fifteen are operational with average groundwater offsets of

Facilitating Agricultural Resource Management Systems Program

approximately 2,770,974 gpd. Four projects are under construction in this basin, and five more are in the contracting process. Finally one project was terminated due to sale of the land. The Peace River Basin board includes the Shell, Prairie, and Joshua Creek (SPJC) watershed, which is one of two priority areas designated for the FARMS Program. Nineteen of the 25 projects, including thirteen of the operational projects, are within the SPJC Priority area. ManasotaBasin. The Manasota Basin has eight board approved projects with a projected offset of 4,246,450 gpd. Of the eight projects in the Manasota Basin, four are now operational, with groundwater offsets of approximately 1,888,679 gpd. Three projects are under construction, and one more is in the contracting process. The Manasota Basin includes the other FARMS priority area, the Upper Myakka River Watershed. Five of the eight projects are in the Upper Myakka River Watershed Priority area, including the four operational projects. HillsboroughBasin. The Hillsborough basin has one project, Parke Family Hydrofarms, that is under construction. This project is projected to offset 30,000 gpd of groundwater in the Northern Tampa Bay Water Use Caution Area (NTBWUCA) and the Dover-Plant City Area of Concern.

GreenSwamp Basin. FARMS has one operational project approximately 1 mile outside the SWUCA in the Green Swamp Basin. This project is offsetting approximately 37,947 gpd of groundwater. AlafiaRiver Basin. The Alafia Basin has three board approved projects. These projects are projected to offset 303,490 gpd. One project, Holmberg Nursery is under construction and the other two projects are in the contracting process. **Regional projects.** FARMS is also providing partial funding for three regional projects. These projects are being coordinated through the Florida Department of Agriculture and Consumer Services. Two of them will help implement BMP programs for citrus growers and row crop farmers, and the other is the Mini-FARMS program that is described in greater detail under project number H529.

Upper Peace River Resource Development

Project Type	WS&R Dev.
AOR(s)	Natural Systems
Basin(s)	Alafia River, Peace River, Manasota
Cooperator(s)	
Project Manager	TURNER, DAWN
Task Manager(s)	
Status	Proposed

Description

This project involves the identification and evaluation of potential water resource development projects in the upper Peace River watershed above Zolfo Springs. The vehicle to accomplish this is the District's Watershed Management Program (WMP). The project includes performing the 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the WMP. FY2007 funds were expected to be used to perform the Topographic Information, Watershed Evaluation, and Watershed Management Plan elements for the area contributing flow to the river between the Highway 640 bridge crossing at Homeland, and the river confluence with Bowleggs Creek. However, in order to avoid duplication of effort in the development of detailed junction and reach data for this project and the District's Integrated Model of the Peace River (P687), the Watershed Management Plan element for the area between Homeland and Bowleggs Creek will be postponed so the Topographic Information and Watershed Evaluation elements can be completed for the entire area contributing flow to the river between Homeland and Zolfo Springs. Future funding will be needed to complete the Watershed Management Plan tasks for the area between Homeland and Zolfo Springs. Preferred Best Management Practices (BMPs) will be further developed through the Implementation of BMPs process under separate activity codes, and will require additional funding.

Benefits

The water resource development projects that are ultimately selected for implementation will enhance low flows, water quality, and natural systems within the upper Peace River.

Costs

The anticipated project cost is \$3,150,000. For FY2008, \$250,000 of project funding will be as follows: Governing Board (\$125,000), Peace River Basin (\$62,500), Alafia River Basin (\$31,250), and the Manasota Basin (\$31,250). FY2008 funds will be used to complete Watershed Evaluation and Watershed Management Plan tasks. For FY2007, \$250,000 is appropriated in the following budgets: Governing Board (\$125,000), Peace River Basin (\$62,500), Alafia River Basin (\$31,250), and the Manasota Basin (\$31,250). In FY2007, \$250,000 in revenue will be received from state appropriations and distributed as follows: Governing Board (\$125,000), Peace River Basin (\$62,500), Alafia River Basin (\$31,250), and the Manasota Basin (\$31,250). When each element is completed the project budget and scope may require refinement based upon the information gathered. The District funding amounts shown in the table include staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. In 2002, the District completed the technical work necessary for establishing minimum flows in the upper Peace River, and the first draft of the Peace River Cumulative Impacts Analysis Report. The Upper Peace River Watershed has been heavily impacted by mining, development activities, and groundwater withdrawals. Proposed minimum "low" flows are currently not being met at the Bartow and Ft. Meade gage sites. The District has developed the Southern Water Use Caution Area (SWUCA) Recovery Strategy that proposes concepts for development of water resource projects. Two of the concepts are storage of wet season rainfall in surface water reservoirs for later release during periods of low or no flow; and the hydraulic optimization of areas impacted by mining, including the reconnection of closed basin areas. Two projects, the Upper Peace River Minimum Flow Enhancement project (H004), and the Old Lands Phosphate project (H011), were initiated in FY2003 to accomplish similar goals. The Upper Peace River Minimum Flow Enhancement project included funding for a feasibility analysis, and design and permitting of a surface water reservoir on reclaimed mine land. The District evaluated a reservoir site located on the east side of the Peace River just south of County Highway 640, and began the land acquisition process. The property owner rejected the District's offer for purchase, which terminated the efforts for this site. As part of the Old Lands Phosphate project, District staff identified other potential reservoir locations, and areas that no longer contribute runoff to the river as a result of mining activities that could be hydraulically reconnected. Both of these projects are consistent with the Upper Peace River Resource Development project. Projects H004 and H011 will be discontinued as individual projects, and incorporated into the Upper Peace River Resource Development project. Alternative reservoir sites are being evaluated, and District staff are collecting available information from property owners, mine companies, FDEP Bureau of Mine Reclamation, and others. FY2004 funds were used to complete elements of a Watershed Evaluation to identify the connectivity of the Upper Peace River system from the confluence of Saddle Creek and Peace Creek, south to Zolfo Springs. Work Order #1 tasks focused on the identification of system connectivity through phosphate lands located between the confluence of Saddle Creek and Peace Creek, and Zolfo

Springs. The First Amendment was executed to expand the scope of work to complete the Watershed Evaluation tasks for the area above County Highway 640 at Homeland, and to encumber FY2005 funds. The Second Amendment was executed to prepare a Watershed Management Plan for the area that contributes flow to the River between the confluence of Saddle Creek and the Peace Creek Canal, and Homeland; and to encumber FY2006 funds. The Watershed Management Plan element will include a water resource assessment and an alternative analysis that will include a cost/benefit evaluation of potential water resource development projects. A new Agreement will be developed to encumber FY2007 funds, and will include Watershed Management Program elements for the area contributing flow to the river between the Highway 640 bridge crossing at Homeland, and Zolfo Springs. Future funding will be needed to complete the Watershed Management Plan for the area between Homeland and Zolfo Springs. When each task is completed the project budget will be refined based on the information developed. The District is cooperating with FEMA to modernize the flood insurance rate maps (FIRMs) in Polk County. Information developed with this project will be used to update the FIRMs representing this watershed.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	808,420	141,314	135,442	9,250,000	10,335,176
011 Alafia River Basin	156,580	34,535	32,741	2,312,500	2,536,356
020 Peace River Basin	301,517	70,453	64,135	4,625,000	5,061,105
021 Manasota Basin	162,862	36,783	35,118	2,312,500	2,547,263
District Budgeted - Outside Revenue					
Ecosystem Trust Fund - Upper Peace Rvr Rstr	0	250,000	0	0	250,000
Water Protection & Sust T. F. (Surface Wtr Rstr)	250,000	0	0	0	250,000
			Total		\$20,979,900

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
Draft Original Agreement to Management Services	7/26/04		8/24/04
Draft Original Agreement returned from Management Services	8/26/04		8/25/04
Execute Original Agreement (First Agreement)	9/17/04		9/30/04
Notice to Proceed - Work Order #1	9/24/04		10/22/04
Submittal of Final Report related to Work Order #1	4/22/05		4/22/05
Execute Contract Amendment 1 to the First Agreement	9/21/05		9/21/05
Recognition of the SWFWMD, Peace, Alafia & Manasota Basin Bds. will be provided	10/31/05	12/31/08	
Notice to Proceed - Work Order #2 for geotechnical testing	11/30/05		1/9/06
Notice to Proceed - Work Order #3	11/30/05		11/17/05
Submittal of Final Report related to Work Order #2	2/28/06		4/19/06
Notice to Proceed - Work Order #4	5/19/06		5/19/06
Execute Contract Amendment 2	6/2/06		7/24/06
Submittal of Final Report related to Work Order #3	6/17/06		10/3/06
Notice to Proceed - Work Order #5 for geotechnical testing	7/28/06		7/28/06
Contract Expiration - First	7/29/06	12/31/08	
Submittal of Final Report related to Work Order #5	9/28/06		3/27/07
Notice to Proceed - Work Order #6 Watershed Mgt. Plan	10/31/06		10/25/06
Draft Second Agreement to Management Services	12/1/06		
Submittal of Final Report related to Task 2.2.7.1 of Work Order #4	12/22/06		2/21/07
Submittal of Final Report related to Task 2.2.7.3 of Work Order #4	12/22/06		
Submittal of Final Report related to Task 2.2.7.2 of Work Order #4	12/22/06		
Draft Second Agreement returned from Management Services	1/1/07		
Execute Second Agreement - Zolfo Springs	1/31/07		
Notice to Proceed - Zolfo Springs Work Order #1	2/9/07		
Submittal of Final Report - Zolfo Springs WO #1	2/9/08		
Submittal of Final Report related to Work Order #6	11/30/08		
Contract Expiration - Second Agreement	1/31/09		

Status As Of: July 05, 2007

Ardaman and Associates has been assigned to this project. The tasks associated with Work Orders #1, #2 and #3 have been completed, and the final deliverables for Work Orders #1, #2 and #3 have been reviewed and approved. Tasks related to Work Orders #4, #5 and #6 are on-going. A draft of the first of 3 reports related to Work Order #4 was received on January 26, 2007. Staff reviewed the draft, and provided comments to the consultant on January 30, 2007. The

Upper Peace River Resource Development

geotechnical report related to Work Order #5 was received on June 8, 2007 and has been approved. Data collection for Work Order #6 has been completed. The final report related to Work Order #6 is due on November 30, 2008. Work Order #7 is currently under development. Work Order #7 will include the preparation of a summary report to consolidate recent geotechnical and engineering evaluation information regarding the feasibility of using CS-11 as a water storage area for MFL recovery. A new Consultant Services Agreement is being prepared to encumber FY2007 funds (\$500,000), and will include Watershed Management Program elements for the area contributing flow to the river between Homeland and Zolfo Springs. Status History: The contract currently encumbers \$150,000 of FY2004 funds, \$500,000 of FY2005 funds, and \$500,000 of FY2006 funds. \$360,000 of H004 Upper Peace River Minimum Flow Enhancement project funds have been transferred to this project to retain a consultant to perform detailed geotechnical analyses, obtain topographic information, prepare cost/benefit analyses, prepare preliminary and final design plans, and obtain permits needed to construct a reservoir. The H004 funds will be encumbered through future contracts or amendments. The amount shown in the Prior Funding column of the funding table has been revised to reflect the funds transferred from the H004 project. The tasks associated with Work Orders #1, #2 and #3 have been completed, and the final deliverables for Work Orders #1, #2 and #3 have been reviewed and approved. Work Order #4 was issued on May 19, 2006 for additional Watershed Evaluation tasks, and Work Order #5 was issued on July 28, 2006 for additional soil borings. Work Order #6 was issued on October 25, 2006 for the Watershed Management Plan for the area above Homeland. Tasks related to Work Order #5 are complete, and tasks related to Work Orders #4 and #6 are on-going. As of this writing, a total of \$588,911 has been invoiced, \$497,757 has been paid, and \$94,154 is being processed for payment.

Charlotte County Regional Reclaimed Water Expansion

Project Type	WS&R Dev.
AOR(s)	Water Supply, Water Quality
Basin(s)	General Fund (District), Peace River
Cooperator(s)	Charlotte County Utilities
Project Manager	ANTOINE, TAMMY
Task Manager(s)	
Status	Proposed

Description

This is an ongoing multiyear alternative water supply project that involves the design and construction of 46,100 linear feet of 16-inch diameter and 16,000 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. The project will also include the design and construction of two 500,000 gallon storage tanks. Customers and reclaimed water use quantities include Charlotte County Stadium (171,000 gpd), Murdock Junior High School (47,000 gpd), Port Charlotte High School (30,000 gpd), New Challenge School (6,000 gpd), VOTEC (8,000 gpd), Port Charlotte Middle School (39,000 gpd), Peace River Elementary (37,000 gpd), Riverwood Golf Club (287,000 gpd)(WUP # 10169), Charlotte County School Board and various offices (294,000), Charlotte County Administration Center (4,000 gpd)(WUP # 12309), Florida Department of Transportation (28,500 gpd), McDonough Park (80,000 gpd), Franz Ross Park (25,000 gpd), Charlotte County ball fields and multiple parks (27,000 gpd)(WUP # 8477), and the medians and park strips on Harbor Boulevard, Kings Highway, and US 41 (189,000 gpd). The remaining customers that will be served receive their water supply from Charlotte County Utilities (WUP # 7104), which imports approximately 96% of its water supply from the Peace River Manasota Regional Water Supply Authority (WUP # 10420). FY2008 Funding Request: The County submitted a funding application requesting a total District funding amount of \$2,181,750 for this ongoing multiyear project. FY2008 will be the third and final year of funding. It is anticipated that any funding included in the District's FY2008 budget for this project would be budgeted in equal amounts from the Peace River Basin and the Governing Boards (i.e., \$1,090,875 from the Peace River Basin and \$1,090,875 from the Governing Board). The District is requested to reimburse Charlotte County for up to 50 percent of the eligible project costs up to a maximum of \$3,625,000. Additional funds, up to 20% of construction costs, may reduce the District's and Cooperator's funding equally if WPSP money is allocated. The eligible, estimated cost of the project is \$7,250,000. \$443,250 was encumbered in FY2004 and \$1,200,000 was encumbered in FY2006, split respectively between the Peace River Basin and Governing Boards. Of the \$1,200,000 encumbered in FY2006, \$400,000 was from the Water Protection and Sustainability Program (WPSP) Trust Fund. District funding of the project is requested in FY2008 in the amount of \$1,090,875 and \$1,090,875 is expected to be requested in FY2009. This amount is solely for construction, of which 20% or \$436,350 of the FY2008 amount requested would be eligible for WPSP funding.

Benefits

The project will serve recreational/aesthetic and commercial customers to utilize approximately 1,272,500 gpd of reclaimed water and offset approximately 954,000 gpd of traditional supply from the intermediate aquifer.

Costs

Because this is part of a regional effort to increase the use of reclaimed water, the Peace River Basin budgeted \$221,625 in FY2004 and \$600,000 in FY2006 and the Governing Board budgeted \$221,625 FY2004 and \$600,000 in FY2006 for this Water Supply and Resource Development project. Of the \$1,200,000 budgeted by the Peace River Basin and Governing Boards, \$400,000 is expected to come from the Water Protection and Sustainability Program. Charlotte County plans on requesting \$2,181,750 in FY2008 and future years from the Governing and Peace River Basin boards, to complete this project at a total estimated cost of \$7,250,000. The cost-benefit is \$1.83/1,000 gallons, amortized over 30 years at eight percent interest.

Additional Information

This project is proposed for construction in three phases over the next three years. The capacity of the East Port WRF is 5.0 mgd, and it produces approximately 3.4 mgd of reuse flow. In addition to the immediate offset benefits described above, this project comprises approximately two thirds of the necessary transmission main to interconnect the county's East Port WWTF with the county's West Port WWTF located on the Cape Haze peninsula. Future interconnection and expansion projects are anticipated to begin in the FY2009 time frame. Of the total project cost of \$7,250,000, approximately 86 percent (\$6,250,000) is expected to be needed for construction, and the remainder (\$1,000,000) for design and administration.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	626,035	1,693	438,150	545,438	1,611,316
020 Peace River Basin	624,930	1,693	438,097	545,437	1,610,157
District Budgeted - Outside Revenue					
Water Protection & Sust T.F. (Alternative Wtr)	400,000	0	436,350	0	836,350

Project Funds Not Budgeted by the District

Charlotte County	2,699,500	507,325	0	0	3,206,825
			Total		\$7,264,648

Critical Project Milestones

	Projected	Amended	Actual
Draft Agreement to Contracts Administration	10/1/03		7/28/04
Draft Agreement from Contracts Administration	8/15/04		9/16/04
Contract Executed	8/31/04		6/30/05
Design Commencement	9/1/04		11/2/04
Signage Erected	9/1/05	12/1/06	
Construction Commencement	9/1/05	12/1/06	
Construction Completion	9/1/07	3/1/08	
Contract Close-out	10/1/08	10/1/08	
Offset Report	10/1/11	10/1/11	

Status As Of: June 12, 2007

The Peace River Basin Board approved a first amendment to expand the scope of work, extend the timeframe, and increase the total project cost for this project on April 7, 2006; followed by the Governing Board on April 25, 2006. The First Amendment to the project was executed on June 20, 2006. Wilson Miller completed initial design of the project on October 16, 2006, but had to redesign a portion of the project due to a conflicting road expansion project. The Midway portion design and bid documents of the project have been approved and the remaining design and bid documents are expected to be submitted for approval by the end of June. To date, \$1,643,250 has been encumbered, of which \$0 has been reimbursed. Charlotte County Utilities has submitted an application for FY2008 funding.

Peace Creek Canal Watershed

Project Type	WS&R Dev.
AOR(s)	Flood Protection, Water Quality, Natural Systems, Management Services
Basin(s)	General Fund (District), Peace River
Cooperator(s)	Polk County Natural Resources
Project Manager	SIMS, SHELLEY
Task Manager(s)	
Status	Ongoing

Description

This is a multi-year funded project to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the Peace Creek Canal Watershed. The watershed covers an area of approximately 230 square miles and is located in Polk County. The District has identified the Upper Peace River watershed, which includes the Peace Creek Canal system, as an area that has undergone significant land alterations including land clearing, draining and re-contouring of lands for residential and commercial purposes, transportation, agriculture, recreation, timbering, power generation, ore and mineral extraction, and other land uses. These have required extensive withdrawals of groundwater that has resulted in significant declines in the level of the Floridan aquifer and flow in the Peace River. This project is to identify projects that will restore lost basin storage, provide recharge to the aquifer, improve water quality, provide flood protection benefits and improve natural systems. The project involves the utilization of the Peace Creek model to evaluate the potential for restoring wetlands and floodplain storage in the Peace Creek watershed. FY2007 funding is for completing the Watershed Management Plan, performing immediate maintenance in the Peace Creek Canal, and for the design of Best Management Practices (BMPs). The Watershed Management Plan element includes the following tasks: survey, data management and development of watershed parameters, GIS processing, computer modeling, floodplain analysis, surface water resource assessment (water quality), and BMP alternative analysis. Additionally, \$250,000 has been budgeted for purchase of homes in the Peace River Estates that were severely flooded during the 2004 hurricane season. Polk County has been awarded a FEMA grant for the purchase of approximately 18 homes. The grant requires a 25% match and the County has asked the District to cover half of their match or approximately \$250,000. The purchase of these homes will improve the management of the resource, not only for flood protection, but also for minimum flows. The purchase of homes and property within floodprone areas is a Best Management Practice that is consistent with the District's Watershed Management Program.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management through the Total Maximum Daily Loads (TMDL) process for their National Pollution Discharge Elimination System (NPDES) permit requirements.

Costs

This is a multi-year funded project. In fiscal years 2005, 2006, and 2007, \$2,850,000 was budgeted as follows: \$887,500 from Peace River Basin, \$887,500 from Governing Board, \$950,000 from State appropriations and \$125,000 from the State Surface Water Restoration Fund. The proposed budget for FY2008 is \$725,000, which is split between the Governing Board (\$375,000) and the Peace River Basin (\$375,000). District funds shown in the table include staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of BMPs, and 5) Maintenance of Watershed Parameters and Models. With prior year funding the Topographic Information, Watershed Evaluation, portions of the Watershed Management Plan, and immediate maintenance were completed. A cooperative funding agreement with Polk County will be developed for the purchase of the 18 homes in the Peace River Estates.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	512,037	425,012	410,113	3,375,000	4,722,162
020 Peace River Basin	514,656	429,516	447,600	3,375,000	4,766,772
District Budgeted - Outside Revenue					
Ecosystem Trust Fund - Peace Ck Canal (H034)	250,000	0	0	0	250,000
Ecosystem Trust Fund - Peace Ck Canal Watershed	250,000	450,000	0	0	700,000
Water Protection & Sust T. F. (Surface Wtr Rstr)	125,000	0	0	0	125,000

Project Funds Not Budgeted by the District

FEMA	0	1,500,000	0	0	1,500,000
Polk County	0	250,000	15,000	0	265,000
			Total		\$12,328,934

Critical Project Milestones

Critical Project Milestones

	Projected	Amended	Actual
Draft Watershed Management Plan (WMP) Consultant Services	3/15/05		3/8/05
Agreement Executed	4/30/05		5/10/05
Notice to Proceed - WMP Work Order #1	5/15/05		5/20/05
Notification of WMP Contract Execution - Peace Basin Board	8/19/05		8/19/05
Notification of WMP Contract Execution - Governing Board	8/30/05		8/30/05
Impl. of BMPs Peace River Estates Agr. to Management Services	7/18/06		7/18/06
Recognition of the Southwest Florida Water Management District	7/31/06		
Contract Amendment #1 Execution	7/31/06	8/14/06	8/14/06
WMP Completion	7/31/06	4/30/07	
Contract Expiration	7/31/06	12/31/09	
Impl. of BMPs Peace River Estates Agreement Executed	12/12/06		12/12/06
Impl. of BMPs Peace River Estates - Notice to Proceed	12/13/06		12/13/06

Status As Of: June 26, 2007

Staff is to complete an aerial flight over the canal on June 27, 2007 to inspect the completed maintenance activities (including aquatic vegetation control) and verify future sediment removal sites. The consultant has provided suggested future sediment removal sites based on the revised existing conditions model provided on June 20, 2007. Permitting for the next phase of maintenance activities will begin in July. Staff is reviewing the Alternatives Report based on the revised existing conditions model provided. License agreements are being obtained from property owners on the western portion of the canal for aquatic weed sprayings. The Implementation of BMPs Agreement for the Peace River Estates Buy-out Program was executed on December 12, 2006, and Notice to Proceed was provided to Polk County on December 13, 2006. The County has acquired the identified parcels and the flood damaged structures have been removed, and the area will be managed as green space.

SWUCA-Pilot Lake Augmentation

Project Type WS&R Dev.
AOR(s) Water Supply
Basin(s) General Fund (District), Peace River
Cooperator(s)
Project Manager HOOD, JILL
Task Manager(s)
Status Ongoing

Description

The purpose of this project will be to evaluate and design a pilot lake augmentation system at Lake Lotela, located in Highlands county and in the Southern Water Use Caution area (SWUCA).

Benefits

This project is an important component of the District's SWUCA Recovery Strategy and the options developed will provide an alternative means of achieving minimum levels in the SWUCA.

Costs

Total project cost is \$100,000 and has been provided by the District's General Fund.

Additional Information

The District has developed minimum levels to protect Lake Lotela and other regional lakes from significant harm that may be attributed to water withdrawals. The adopted minimum levels are intended to provide protection for cultural and natural system values associated with the lake. Developing the ability to augment the lake will ensure that these values are protected. This is a pilot project that will review and evaluate the overall conditions of the lake, assess the feasibility of using the surficial and/or Upper Floridan aquifer to augment the lake, and develop design criteria for a potential augmentation system. This project will be outsourced to a hydrologic engineering consultant and requires expertise in groundwater and surface water hydrology. The project is expected to take approximately 18 months to complete.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	100,000	0	2,719	0	102,719
020 Peace River Basin	0	0	2,719	0	2,719
			Total		\$105,438

Status As Of: July 02, 2007

In the process of developing the work order with the consultant.

Myakka River Watershed Initiative

Project Type	WS&R Dev.
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	General Fund (District), Peace River, Manasota
Cooperator(s)	
Project Manager	DUNHAM, STEPHANIE
Task Manager(s)	SZAFRANIEC, MARY, DICKS, STEVE, MORRIS, LISANN, WILLIAMS, GARY
Status	Proposed

Description

The Myakka River Watershed is approximately 600 square miles in size and spans about 66 miles from Myakka Head to its outfall in Charlotte Harbor. It includes portions of several counties including Hardee, Desoto and Charlotte with the majority of the watershed located in Manatee and Sarasota counties. The 34-mile segment of the Myakka River in Sarasota county has been designated a Wild and Scenic River by the State of Florida and, together with the estuarine portions of the river, it is designated an Outstanding Florida Water by the Florida Department of Environmental Protection. The river is the second largest source of freshwater inflow for Charlotte Harbor, which is generally viewed as one of the most productive estuaries in Southwest Florida and is a SWIM waterbody. The Initiative is a comprehensive project that will illustrate the effects of land use conversions and alterations and evaluate best management practices (BMPs) for restoration alternatives. The objective of this initiative is to restore water quality, natural system, and floodplain impacts in the watershed in ways that can also provide a benefit to water supplies in the Southern Water Use Caution Area (SWUCA). The Topographic Information, Watershed Evaluation, and Watershed Management Plan elements of the District's Watershed Management Program (WMP) are included in this initiative. Included in this effort, existing data and analyses (such as the Sarasota County Lower Myakka Watershed Management Plan, K487, and the City of North Port Big Slough Watershed Management Plan, K883) will be evaluated along with existing and proposed activities within the watershed, and a list of identified needs and a program to address long-term water resource issues will be developed.

Benefits

The Initiative will result in a better understanding of the dynamics of the river and watershed, determine how alternations have affected these systems, evaluate potential water resource impacts from future land use changes, and provide alternatives to better manage the water resource within the Myakka River watershed.

Costs

The estimated cost for this Initiative is approximately \$4.99 million. At the February 21, 2006 Governing Board Meeting, a transfer of funds (\$500,000) from the Water Supply and Resource Development reserves was approved to hire consultants to obtain digital topographic information using LiDAR in eastern Manatee County (\$380,000) and to initiate the water budget analysis for the Upper Myakka watershed (\$120,000). The FY2007 funding (\$2 million) continues the Upper Myakka water budget, the Watershed Evaluation for the entire watershed, and initiates the Watershed Management Plan element within the Upper Myakka. The \$2 million FY2007 budget is being funded as follows: \$575,000 from the Governing Board, \$517,500 from the Manasota Basin Board, \$57,500 from the Peace River Basin Board, and \$850,000 from state appropriations (Water Protection and Sustainability Trust Fund). An additional \$1.77 million is proposed for FY2008 to continue the Watershed Management Plan element for the entire Myakka River watershed and will be funded as follows: \$635,000 from the Governing Board, \$571,500 from the Manasota Basin Board, \$63,500 from the Peace River Basin Board, and \$500,000 from the State's Water Protection and Sustainability Trust Fund. The funding distribution, percentage wise, is Governing Board (50%), Manasota Basin Board (45%) and Peace River Basin Board (5%). With FY2008 funds consideration is being given to contracting for independent, peer review of the Water Budget for the Upper Myakka and purchasing the necessary software licenses for selected model(s). The remaining \$720,000 in funding will be required in FY2009 to complete the Watershed Management Plan through the Alternatives Analysis. When each element is completed the project budget and scope may require refinement based on the information gathered. The District funding amounts shown in the table include staff salaries. Future funding will be required, under a different project number, for implementation of selected BMPs.

Additional Information

A WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. Funding is being requested in FY2008 to continue the Watershed Management Plan including: survey, GIS data base development, watershed parameterization, computer modeling, floodplain analysis, floodplain delineation, and alternative analysis of BMPs within the Upper Myakka. Since all task under the Watershed Management Plan will not be completed within FY2008, the necessary funding to complete the project has be distributed between FY2008 and FY2009. Objectives of the Initiative include: 1) ensuring an adequate supply of the water resource, 2) providing flood protection, 3) protecting and enhancing water quality and preventing the further degradation of the water resource, and 4) preserving, protecting and restoring natural systems. There is a significant amount of research, study and other data available for the watershed from the District and other Myakka stakeholders that can and will be used during the

course of the project. Stakeholder involvement and contribution of available information will be important for the Initiative's ultimate success.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	599,971	667,127	0	1,267,098
020 Peace River Basin	0	69,646	78,822	0	148,468
021 Manasota Basin	0	539,217	601,599	0	1,140,816
District Budgeted - Outside Revenue					
Ecosystem Trust Fund - Myakka Rvr W/S Init	0	850,000	500,000	0	1,350,000
			Total		\$3,906,382

Critical Project Milestones

1. Aerial Mapping Services

	Projected	Amended	Actual
Execute Work Order for Aerial Topographic Mapping	2/24/06		2/24/06
Complete Aerial Topographic Mapping	10/31/06	1/30/06	3/22/07

2. Request for Proposals

Post Request for Proposals for Consulting Services	5/19/06		5/19/06
Open Proposals	6/20/06		6/20/06
Oral Presentations	7/25/06		7/25/06
Notice of Decision on RFP	8/4/06		8/8/06

3. WMP Consulting Services

Develop Consultant Services Agreement	8/31/06		10/11/06
Execute Consultant Services Agreement	11/13/06		12/4/06
Execute Work Order #1	12/11/06		12/29/06
Complete Work Order #1	5/8/07		5/8/07
Execute Work Order #2	5/22/07		6/12/07
Execute Work Order #3	6/22/07		
Execute Work Order #4	7/13/07		
Complete Work Order #2	2/11/08		
SAI Agreement Termination	10/31/10		

Status As Of: June 12, 2007

Status History: At the February 21, 2006 Governing Board Meeting, a transfer of funds (\$500,000) from the Water Supply and Resource Development reserves was approved to hire consultants to obtain digital topographic information using LiDAR in eastern Manatee County (\$380,000) and to initiate the water budget analysis for the Upper Myakka watershed (\$120,000). The notice to proceed for the LiDAR work order in eastern Manatee County was executed on February 24, 2006. The LiDAR vendor previously informed staff that the sensor used to acquire the data earlier this spring experienced hardware problems and the data, therefore, are not usable. The vendor recollected the LiDAR data and the Eastern Manatee/Upper Myakka LiDAR has been approved and delivered to the WMP consultant. The Request for Proposals to select a consultant to perform the Watershed Management Program elements was posted on May 19, 2006, and closed on June 20, 2006. A non-mandatory pre-proposal conference was held on June 1, 2006, in the Tampa Service Office. Oral presentations of the three respondents were given on July 25, 2006. Singhofen & Associates, Inc. (SAI) was selected and approved on August 8, 2006. District staff met with the SAI team on August 21, 2006, to discuss the consulting services agreement and the scope of work for the first work order. Staff presented this initiative to the Myakka River Management Coordinating Council and Myakka Conservancy. The consultant services agreement with SAI was executed on December 4, 2006. Copies of the executed agreement were transmitted to Manatee County, City of North Port, Sarasota County, and PRMWSA. Work Order #1 with SAI was executed on December 29, 2006, and notice to proceed was issued on January 3, 2007. A kick-off meeting was held with the Myakka River stakeholders on February 14, 2007, to present the project and collect information from staff with projects, knowledge, and/or data within the watershed. This meeting was held in conjunction with the Myakka CWM Plan update being performed by the Planning Department. Current Status: The Southern Peace LiDAR has been finalized and delivered to SAI. All available digital topographic information has been completed and transmitted to the consultant at this point. Under Work Order #1 the consultant team is collecting and reviewing existing information, developing the methodology and approach for completing the surface water, water quality, and water budget modeling and preparing the project management, quality assurance, and outreach plan for the project. All deliverables for Work Order #1 have been received and reviewed by the District. Work Order #2 was executed on June 12, 2007, to develop the Upper Myakka River water budget model. Staff is currently negotiating the third and fourth work orders to complete the digital topographic information element, geospatially reference existing survey data from throughout the watershed, develop content for a web page about the project, complete historic land use mapping, and identify

model-specific features related to all models that will be developed to add to the GWIS.

PR/MRWSA Reg Integ Loop Sys Phase 1 Interconnect (Canceled)

Project Type WS&R Dev.
AOR(s) Water Supply
Basin(s) General Fund (District), Peace River, Manasota
Cooperator(s) Peace River/Manasota Regional Water Supply Auth.
Project Manager ARMSTRONG, BRIAN
Task Manager(s)
Status Proposed

Description

The Regional Integrated Loop System project is a series of transmission pipelines that will be developed to regionally transfer and deliver water from existing and future sources to demand centers within the Peace River/Manasota Regional Water Supply Authority's (Authority) four county region. This project is the first phase of the Integrated Loop System and is designed to interconnect the Peace River and Shell Creek water treatment plants via an extension of the DeSoto County Regional Transmission System. The extension will consist of a 20 to 24 inch pipeline approximately 6 miles in length that will be capable of delivering 10 to 13 mgd of potable water. Construction of the pipeline is scheduled to begin in May 2007.

Benefits

Development of this project will integrate regional resources, maximize surface water for public supply, provide rotational capacity and the ability to rest sources, provide for reserve capacity for emergency transfers; limit the development of groundwater in the Southern Water Use Caution Area (SWUCA), and better match supply, demand and financial investment on a regional basis.

Costs

As presented in the PR/MRWSA's FY2008 funding request, the total project cost is now \$11,500,000 with the District's share being \$5,188,000; the PR/MRWSA's share being \$5,750,000; and \$562,000 currently allocated from the WPSTF. District funding will be shared by the Governing Board (\$2,593,348), and the Peace River (\$700,912) and Manasota (\$1,893,740) Basin Boards. The FY2008 request is for the second year of funding and is as follows: Governing Board (\$1,521,100), Manasota Basin Board (\$1,110,403) and the Peace River Basin Board (\$410,697).

Additional Information

The Authority identified the Shell Creek Water Treatment Plant (WTP) as a potential source for providing 2 mgd towards the Authority's GAP Plan. The GAP Plan addresses a possible water supply shortfall that may occur while the Authority is completing its facility expansions (F032 & F033). Construction of this interconnect will allow the authority to receive water from the Shell Creek WTP while completing their facility expansions. Additionally, in response to Authority Board direction, the southern portion of the ongoing Regional Loop System Feasibility Study (H036) was accelerated and a technical memorandum was provided to the District, describing this project. The accelerated portion of the feasibility study included investigating interconnections between Charlotte County, Punta Gorda and the Authority's Peace River WTP. The remaining portions of the Regional Integrated Loop Feasibility/Routing Study (H036) are scheduled for completion in Summer 2006. The DeSoto County RTS is a 20 inch pipeline from the Peace River WTP to just north of the DeSoto/Charlotte County line. The DeSoto RTS was constructed as part of the Authority's facility expansion project F033.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	1,073,027	0	0	1,073,027
020 Peace River Basin	0	290,215	0	0	290,215
021 Manasota Basin	0	783,337	0	0	783,337
District Budgeted - Outside Revenue					
Water Protection & Sust T.F. (Alternative Wtr)	0	562,000	0	0	562,000
Project Funds Not Budgeted by the District					
PR/MRWSA	0	2,144,000	3,606,000	0	5,750,000
			Total		\$8,458,579

Status As Of: July 06, 2007

The Authority Board has chosen not to construct the project and noted to terminate. The Board authorized its Executive Director to send a letter requesting the District reallocate FY2007 funds from the first phase of the Regional Loop System to the Authority's facility expansion project. A workshop has been scheduled after the Authority's July 25 meeting to discuss future pipeline funding.

PR/MRWSA Reg Integ Loop Sys Phase 2 Interconnect

Project Type WS&R Dev.
AOR(s) Water Supply
Basin(s) General Fund (District), Peace River, Manasota
Cooperator(s) Peace River/Manasota Regional Water Supply Auth.
Project Manager ARMSTRONG, BRIAN
Task Manager(s)
Status Proposed

Description

The Regional Integrated Loop System project is a series of transmission pipelines that will be developed to regionally transfer and deliver water from existing and future sources to demand centers within the Peace River/Manasota Regional Water Supply Authority's four county region. This project provides additional regional transmission capacity to the public water systems of the City of North Port and Charlotte and DeSoto Counties with future potential connection to Sarasota County, Englewood Water District and the City of Venice. This project is planned for preliminary engineering in FY2007 with engineering design and construction in later years.

Benefits

Development of this project will further integrate regional resources, maximize surface water for public supply, provide rotational capacity and the ability to rest sources, provide for reserve capacity for emergency transfers; limit the development of groundwater in the Southern Water Use Caution Area (SWUCA), and better match supply, demand and financial investment on a regional basis.

Costs

As presented in the PR/MRWSA's FY2008 funding request, the total project cost is now \$106,370,744 with the District's share being \$53,185,372 and the PR/MRWSA's share being \$53,185,372. District funding will be shared by the Governing Board (\$26,592,686), and the Peace River (\$7,180,025) and Manasota (\$19,412,661) Basin Boards. The FY2008 request is for the second year of funding and is as follows: Governing Board (\$1,250,049), Manasota Basin Board (\$912,539) and the Peace River Basin Board (\$337,577).

Additional Information

The Loop Feasibility/Routing Study was authorized by the Authority in May 2005 and is anticipated to be complete in Summer 2006. The Feasibility/Routing Study will identify the preferred loop pipeline routing, environmental impacts, connection points, preliminary pipe sizing, prioritization of loop segments, and phasing of construction. Although completion of the study isn't anticipated until Summer 2006, the Authority has verified that this pipeline will be included in the report. With information collected to date, this project would also provide service to Charlotte County and DeSoto County with eventual looping to Sarasota County's Carlton Water Treatment Facility and other local public water systems such as Englewood Water District and the City of Venice.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	751,025	1,253,636	24,592,000	26,596,661
020 Peace River Basin	0	203,277	339,501	6,639,838	7,182,616
021 Manasota Basin	0	548,277	914,501	17,952,162	19,414,940
Project Funds Not Budgeted by the District					
PR/MRWSA	0	1,500,000	2,500,000	49,184,000	53,184,000
			Total		\$106,378,217

Status As Of: July 06, 2007

The Authority Board approved the first work order for Phases 2 of the Regional Loop System but withheld notice to proceed. As currently envisioned, the Phase 2 pipeline would provide an interconnect between the Authority's Peace River facility and the City of North Port's Water Treatment Plant (WTP). It is unlikely that the Authority and District staff will have a draft contract completed by September and a request to encumber the funds without a contract will be made during the July Governing Board meeting.

Project Type WS&R Dev.
AOR(s) Water Supply
Basin(s) General Fund (District), Peace River, Manasota
Cooperator(s) Peace River/Manasota Regional Water Supply Auth.
Project Manager ARMSTRONG, BRIAN
Task Manager(s)
Status Proposed

Description

The Regional Integrated Loop System project is a series of transmission pipelines that will be developed to regionally transfer and deliver water from existing and future sources to demand centers within the Peace River/Manasota Regional Water Supply Authority's (Authority) four county region. This project is the third phase of the Integrated Loop System and proposes to construct a pipeline from Sarasota County's Carlton Water Treatment Facility north to Manatee County's water system. This project is planned for preliminary engineering and land acquisition in FY2007 with engineering design and construction in later years.

Benefits

Development of this project will further integrate regional resources, maximize surface water for public supply, provide rotational capacity and the ability to rest sources, provide for reserve capacity for emergency transfers; limit the development of groundwater in the Southern Water Use Caution Area, and better match supply, demand and financial investment on a regional basis.

Costs

As presented in the PR/MRWSA's FY2008 funding request, the total project cost is now \$146,199,683, with the District's share being \$73,099,842; the PR/MRWSA's share being \$73,099,842. District funding will be shared by the Governing Board (\$36,549,921), and the Peace River (\$9,868,479) and Manasota (\$26,681,442) Basin Boards. The FY2008 request is for the second year of funding and is as follows: Governing Board (\$676,801), Manasota Basin Board (\$494,303) and the Peace River Basin Board (\$183,303).

Additional Information

The Loop Feasibility/Routing Study (H036) was authorized by the Authority in May 2005 and is anticipated to be complete in Summer 2006. The Feasibility/Routing Study will identify the preferred loop pipeline routing, environmental impacts, connection points, preliminary pipe sizing, prioritization of loop segments, and phasing of construction. Although completion of the study isn't anticipated until Summer 2006, the Authority has verified that this pipeline will be included in the report. With information collected to date, this project would provide potable water service to areas of northern Sarasota County and Manatee County.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	676,801	1,253,436	34,623,874	36,554,111
020 Peace River Basin	0	183,803	339,501	9,348,446	9,871,750
021 Manasota Basin	0	494,303	914,501	25,275,427	26,684,231
Project Funds Not Budgeted by the District					
PR/MRWSA	0	1,350,000	2,500,000	69,247,430	73,097,430
			Total		\$146,207,522

Status As Of: July 06, 2007

The Authority Board approved the first work order for Phases 3 of the Regional Loop System but withheld notice to proceed. As currently envisioned, Phase 3 would be an extension of the Authority's regional transmission system currently terminating at the Carlton WTP. It is unlikely that Authority and District staff will have a draft contract completed by September and a request to encumber the funds without a contract will be made during the July Governing Board meeting.

Water Supply Flow Monitoring Project

Project Type WS&R Dev.
AOR(s) Water Supply, Flood Protection
Basin(s) General Fund (District), Withlacoochee River, Peace River, Manasota
Cooperator(s)
Project Manager MORRIS, LISANN
Task Manager(s)
Status Proposed

Description

This project is to establish a surface water flow monitoring network on water bodies designated for proposed water supply projects. Sites will be prioritized each year by proposed upcoming water supply projects. Once the site has been established through this project, the ongoing operation and maintainance will be managed through the Hydrologic Data section. For FY2007 proposed are two sites on\near Myakkahatchee Creek, one on Gamble Creek, one on Frog Creek, one on Prairie Creek, and one on the Peace River. For FY2008, we are proposing two sites in the Manasota Basin and one site in the Withlacoochee River Basin.

Benefits

This project provides surface water discharge data collection to support the development of alternative sources of water supply and to assist regulatory efforts to evaluate projects. The data can also be utilized in flood protection, water quality, and natural system restoration projects.

Costs

For FY2007, nine sites are proposed; only six were contracted because of site conditions and USGS cost increases. Funding is distributed for FY2007 between the Governing Board (\$69,750), Manasota Basin Board (\$46,500) and Peace River Basin Board (\$23,250) for a total project cost of \$139,500. Estimated funding for FY2008 is distributed between the Governing Board (\$43,500), Manasota Basin Board (\$31,500), and Withlacoochee River Basin Board (\$12,000) for a total project cost of \$87,000.

Additional Information

Surface Water/Storm Water was evaluated as a potential alternative source of water in the Regional Water Supply Plan (RWSP). Comprehensive discharge data on those major river/creek systems identified for potential water supply development provides best available information for designing the proposed water supply project, assists in identifying existing or potential resource problems and monitors trends in conditions. The United States Geological Survey (USGS) has long maintained surface water discharge sites, but many times coverage is not adequate because of cost constraints to accurately analyze the resource.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	72,940	47,958	0	120,898
019 Withlacoochee River Basin	0	0	15,344	0	15,344
020 Peace River Basin	0	25,376	0	0	25,376
021 Manasota Basin	0	48,626	34,844	0	83,470
			Total		\$245,088

Critical Project Milestones

	Projected	Amended	Actual
JFA Execution	1/8/07		12/27/06

Status As Of: June 25, 2007

The Joint Funding Agreement was executed 12/27/2006. Equipment for the new sites was ordered. Site reconnaissance and permit applications are complete. USGS estimates construction crews to start in March 2007. All FY2007 sites are installed and running. These new sites will not be available on public web access until the data has been monitored for any problems. Discharge will not be available until a range of measurements are available to develop a rating curve. The proposed FY2008 sites; Cow Pen Slough, Myakka River below the Lower Myakka Lake and Jumper Creek near the Withlacoochee River have already been reconned. Current Status: The USGS continues to develop flow rating curves for the six sites up and running from FY2007. At Frog Creek at Buffalo Road, modifications were made to better capture low flow readings. A discussion will take place on the Big Slough at West Price Road site. Backwater effects at the site may precipitate us to change from conventional to an index velocity rating which will increase operation and maintenance charges. This site will transfer to Hydrologic Data section in FY2008.

Punta Gorda Shell Creek WTP Expansion to 10 MGD

Project Type	WS&R Dev.
AOR(s)	Water Supply
Basin(s)	Peace River, Manasota
Cooperator(s)	Punta Gorda
Project Manager	MCBRIDE, TAMERA
Task Manager(s)	
Status	Ongoing

Description

This project is for the expansion of the City of Punta Gorda's Shell Creek Water Treatment Plant (WTP) from 8 to 10 mgd. Project elements include rehabilitating existing filters and improving the facility's chemical mixing and disinfection processes. Although the facility recently received a facility re-rating from the DEP from 8 to 10 mgd, these improvements are necessary for the plant to treat a sustained capacity of 10 mgd. The Shell Creek facility expansion from 8 mgd to 10 mgd is in the design phase. Construction is scheduled for the 2007 budget year.

Benefits

The City of Punta Gorda will have the ability to supply additional water to the regional system. The intent is to make water available to address a potential water supply shortfall that may occur while the Peace River/Manasota Regional Water Supply Authority (Authority) completes its facility expansion in 2008. This project will assist in maximizing surface water for public supply; provide rotational capacity and the ability to rest sources; provide reserve capacity for emergency transfers; limit development of ground water in the Southern Water Use Caution Area; and better match supply, demand, and financial investment on a regional basis.

Costs

Total estimated project cost is \$3,000,000 and the District's share is requested to be \$1,500,000 in FY2007.

Additional Information

The City of Punta Gorda is planning an expansion of its Shell Creek WTP capacity to meet future public supply demands through 2016. The expansion will occur in two stages, from 8 to 10 mgd by January 2008 and from 10 to 15 mgd by 2014. The City has submitted a separate cooperative funding application for each expansion. This project is only for the expansion from 8 to 10 mgd. The Authority identified the Shell Creek WTP as a potential source for providing 2 mgd towards the Authority's GAP Plan. The GAP Plan addresses a possible water supply shortfall that may occur while the Authority completes its facility expansions in 2008 (F032 & F033). On February 1, 2006, the Authority submitted a conjunctive water use permit application that included Shell Creek as a 2 mgd source. Additionally, the Authority has requested FY2007 funding to construct a 24-diameter pipeline connecting the Shell Creek and Peace River WTP Facilities (H050).

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	751,553	5,441	0	756,994
020 Peace River Basin	0	203,277	4,533	0	207,810
021 Manasota Basin	0	549,053	4,533	0	553,586
Project Funds Not Budgeted by the District					
Punta Gorda	0	1,500,000	0	0	1,500,000
			Total		\$3,018,390

Critical Project Milestones

	Projected	Amended	Actual
Begin WTP Improvements and re-rate from 8 to 10 mgd	10/1/06		10/1/06
Basin Board Notification of Contract Execution	4/25/07		4/25/07
Contract Executed	6/14/07		6/14/07
Project Completion	1/31/08		
A. Complete Design and Equipment Delivery			
North Filter Improvements	8/10/07		
Sludge Bed Refurbishment	8/21/07		
Televise Underdrain	9/4/07		
Chemical Feed - New Flash Mix System	10/5/07		
Solids Contact Unit Equipment Replacement	10/30/07		
Dewatering Canopy	11/29/07		
B. Complete Construction			
Ground Storage Tank Modification	8/13/07		

Sludge Drying Bed Refurbishment	11/6/07
Chemical Feed - New Flash Mix System	11/7/07
North Filter Improvements	11/15/07
Solids Contact Unit Equipment Replacement	11/16/07
South Filter Improvements	1/3/08
Dewatering Canopy	1/10/08

Status As Of: June 28, 2007

The contract has been signed by all parties and executed.

CF Industries Aquifer Recharge and Recovery Project

Project Type WS&R Dev.
AOR(s) Water Supply, Water Quality
Basin(s) General Fund (District), Alafia River, Peace River, Manasota
Cooperator(s)
Project Manager CHAN, DOREEN
Task Manager(s)
Status Ongoing

Description

CF Industries (CFI) is proposing to develop an Aquifer Recharge and Recovery Project (ARRP) on a portion of its South Pasture mine in Hardee County. CFI proposes to store mine stormwater in an existing sand-clay mix area; naturally treat the water through two reclaimed wetland cells constructed in an adjacent sand-clay mix area; filter the water through a sand tailings filter basin; and then finally recharge an estimated 2 to 4 mgd of the naturally treated water into the Floridan aquifer. The goal is to treat the water to primary and secondary drinking water standards so that it can be recharged into the Upper Floridan aquifer to increase water levels and provide additional water to help meet local and regional water demands. The project consists of constructing the major components required to operate the ARRP, which will include design and construction of the treatment wetlands and sand filtration basin, intake control structures to and from the mine, reservoir and treatment systems, and the construction of an injection well and two monitor wells. In December 2006, the Manasota, Alafia and Peace River Basin Boards approved funding (FY2007) to conduct the first year of the project (Phase I). CFI has submitted a FY2008 Cooperative Funding Application to conduct the second year of the project (Phase II). Major tasks to be conducted in the second year include constructing a stormwater collection and distribution system to augment the wetland system.

Benefits

This is an innovative alternative water supply project that could provide significant benefits to the Southern Water Use Caution Area (SWUCA) by maintaining or increasing Upper Floridan aquifer levels. Utilizing excess surface waters and safely injecting those waters into the aquifer is one of several strategies the District is pursuing as part of its SWUCA Recovery Strategy. The information collected from this project will be used to demonstrate the full-scale feasibility of this type of treatment technology and can be applied to future natural treatment and aquifer recharge projects in the area. This project was identified in the District's most recent update of the Regional Water Supply Plan as a water supply development option under the Heartland Water Alliance planning area.

Costs

The total cost of the project is estimated to be \$4,500,000, with the District funding up to 50 percent of eligible costs to a maximum of \$2,250,000. District funding will be shared by the Governing Board (50 percent), Peace River Basin Board (25 percent), Alafia River Basin Board (12.5 percent), and Manasota Basin Board (12.5 percent). Project costs for the first year (Fiscal Year (FY) 2007) are estimated at \$1,751,620, with the District's share not-to-exceed \$875,810 (Peace River Basin Board: \$218,953; Manasota & Alafia River Basin Boards: \$109,476 each; Governing Board: \$437,905). Project costs for FY2008 are estimated at \$969,068, with the District's share not-to-exceed \$484,534 (Peace River Basin Board: \$121,134; Manasota & Alafia River Basin Boards: \$60,567 each; Governing Board: \$242,267). The District budget as it appears below does not include funds approved for the first year of the project totalling \$875,810. This amount was provided by the basins in FY2007 as a Basin Initiative. Future funding to complete the remaining tasks of the project are expected in FY2009.

Additional Information

The project consists of constructing the major components required to operate the ARRP, which will include the design and construction of the treatment wetlands and sand filtration basin, intake control structures to and from the mine, reservoir and treatment systems, and the construction of an injection well and two monitor wells. In anticipation of receiving formal approvals and variances from the required regulatory agencies, CFI plans to commence construction of the project in March 2007. It is expected to take approximately two years to complete the installation of the necessary infrastructure. Another two years will be required to thoroughly test the system.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	0	198,914	444,828	643,742
011 Alafia River Basin	0	0	49,474	111,207	160,681
020 Peace River Basin	0	0	97,927	222,414	320,341
021 Manasota Basin	0	0	49,474	111,207	160,681
District Budgeted - Outside Revenue					
Water Protection & Sust T.F. (Alternative Wtr)	0	0	193,814	0	193,814

Project Funds Not Budgeted by the District

CF Industries	0	875,810	484,534	889,656	2,250,000
			Total		\$3,729,259

Critical Project Milestones

Phase 1-Year 1

	Projected	Amended	Actual
Basin Board Approvals			12/15/06
Governing Board Approval			11/25/06
Execute Contract	2/15/07		
Contract Agreement to Mgmt Services	2/18/07	6/1/07	
Notice to Proceed	3/10/07	7/1/07	
Wetland Construction	3/15/07	8/15/07	

Status As Of: May 02, 2007

A contract for this project has not yet been drafted. Negotiations between CFI and FDEP to modify wetland reclamation responsibilities have been ongoing. Tentative approval was obtained at the end of April and CF Industries was reviewing the project to determine whether to move ahead with the project based on only tentative approval of the project. CFI has submitted a Cooperative Funding application for FY08 funding to construct the remainder of the project (ARRP well and associated infrastructure). A telephone conference to discuss FY08 has been set for early May. Because most Basins are short on funds, District staff are re-reviewing project requests to reduce the overall 2008 request.

Project Type	WS&R Dev.
AOR(s)	Water Supply
Basin(s)	General Fund (District), Peace River, Manasota
Cooperator(s)	Peace River/Manasota Regional Water Supply Auth.
Project Manager	MORRIS, LISANN
Task Manager(s)	
Status	Proposed

Description

This project will conduct feasibility studies on three potential alternative water supply sources that were identified in the Peace River/Manasota's Regional Water Supply Authority's Integrated Regional Water Supply Master Plan (IRWSMP). The sources include Cow Pen Slough/Dona Bay, Flatford Swamp and Shell Creek.

Benefits

This project and the associated feasibility studies will allow the Authority to move forward with developing its next water supply source through their Regional Resource Development program. The program focuses on maximizing surface water for public supply, reducing development pressure on groundwater in the SWUCA, providing rotational and reserve capacity for resting sources, and optimizing the regional financial investment in water supply and transmission capacity.

Costs

The total estimated project cost is \$2,500,000. The District's anticipated total funding contribution for the project is \$1,250,000. It is anticipated that, of the District's projected total funding contribution of \$1,250,000, the District Governing Board will contribute \$625,000, the Manasota Basin Board will contribute \$456,250 (73 percent of the total basin board contribution), and the Peace River Basin Board will contribute \$168,750 (27 percent of the total basin board contribution).

Additional Information

The Peace River/Manasota Regional Water Supply Authority (Authority) is comprised of Charlotte, DeSoto, Manatee and Sarasota Counties. In accordance with its Master Water Supply Contract, the Authority is obligated to timely develop and deliver new water supply sources and facilities to meet the needs of its customers. Building upon the planning efforts of the Water Planning Alliance, the Southwest Florida Water Management District and Local Governments, the Authority has developed a draft Integrated Regional Water Supply Master Plan (IRWSMP) which will serve as a road-map for meeting Authority member and customer water needs in the future. The IRWSMP will contain a Regional Resource Development program that will analyze and prioritize potential new water supply sources within the region. Initially the authority submitted a FY2008 Cooperative Funding application to proceed with preliminary engineering of selected regional water supply source(s). After discussions between District and Authority staff, the Authority's FY2008 application was revised to only include the feasibility portion of the Regional Resource Development program. It is anticipated that the Authority will need 20% (\$500,000) of the total project cost in FY2007 and the remainder (\$2,000,000) in FY2008. As a result, an out of cycle funding request will be brought to the June Manasota and Peace River Basin Boards and Governing Board for approval. Upon completion of the feasibility analysis, the Authority will move forward with construction of the selected source(s). The first new regional water supply capacity is anticipated to be available in 2013.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	0	520,158	0	520,158
020 Peace River Basin	0	0	144,760	0	144,760
021 Manasota Basin	0	0	372,141	0	372,141
District Budgeted - Outside Revenue					
Ecosystem Trust Fund - Central W Coast SW Enhanc	0	0	50,000	0	50,000
Project Funds Not Budgeted by the District					
PR/MRWSA	0	250,000	1,000,000	0	1,250,000
			Total		\$2,337,059

Status As Of: June 26, 2007

The Authority received three submittals on April 25 for consultant services to conduct water supply feasibility studies of the Shell Creek, Cow Pen Slough/Dona Bay, and Upper Myakka River Systems. The Authority Board will interviewed and ranked the consultants at their June meeting and authorized contract negotiations with the top ranked firm, the PBS&J team. In addition, District staff will brought an out of cycle funding request for \$250,000 to the June Basin (Manasota and Peace River) and Governing Boards that was approved. The remaining \$1,000,000 being requested by the Authority for this project will be placed in the FY2008 budget for approval. Several scoping meetings have taken place with the consultant and contracts are under development.

Project Type WS&R Dev.
AOR(s) Water Supply
Basin(s) General Fund (District), Peace River, Manasota
Cooperator(s) Peace River/Manasota Regional Water Supply Auth.
Project Manager ARMSTRONG, BRIAN
Task Manager(s)
Status Proposed

Description

This project will connect the water supply systems of the Peace River/Manasota Regional Water Supply Authority, Charlotte County and the City of Punta Gorda. Construction of the interconnect will consist of approximately 10 miles of 24 inch pipe including a 6400 ft sub aqueous crossing of the Peace River.

Benefits

Development of this project will integrate regional resources; maximize surface water for public supply; provide rotational capacity and the ability to rest sources; provide for reserve capacity for emergency transfers; limit the development of groundwater in the Southern Water Use Caution Area (SWUCA); and better match supply, demand and financial investment on a regional basis.

Costs

Total project cost is \$19,015,000 with the District's share being \$7,986,300 and Charlotte County's share being \$7,986,300. The remaining \$3,042,400 will be allocated from WPSTFs if available. District funding will be shared by the Governing Board (\$3,993,150), and the Peace River (\$1,078,150) and Manasota (\$2,915,000) Basin Boards. The FY2008 request is as follows: Governing Board (\$2,222,222), Manasota Basin Board (\$1,622,222) and the Peace River Basin Board (\$600,000).

Additional Information

Initially there were two separate pipelines, the Authority's Integrated Regional Loop system Phase 1 (H050) and Charlotte County's Emergency Interconnect (L636). Phase 1 of the Integrated Loop System was designed to interconnect the Peace River and Shell Creek water treatment plants via an extension of the DeSoto County Regional Transmission System. Phase 1 was canceled by the Authority in June 2006 for lack of a local match to District funding. Charlotte County's emergency interconnect consisted of a sub aqueous crossing of the Peace River, interconnecting the water supply systems of Charlotte County and Punta Gorda. In an effort to achieve the benefits of both pipelines, discussions were initiated to combine Phase 1 and the emergency interconnect. The revised and expanded pipeline was approved by both Charlotte County and the Authority Board in June 2006. This expanded pipeline will be designed to transfer up to 6 MGD between the Authority, Charlotte County and Punta Gorda. In creating this interconnect, water provided by Punta Gorda to Charlotte County will offset the County's Demand on the Peace River. This offset can then be made available to other Members of the Authority or placed into storage to create additional reliability for the regional system.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	0	3,710,271	0	3,710,271
020 Peace River Basin	0	0	1,002,189	0	1,002,189
021 Manasota Basin	0	0	2,707,140	0	2,707,140
Project Funds Not Budgeted by the District					
PRMRWSA	0	0	4,444,444	3,541,856	7,986,300
			Total		\$15,405,900

Status As Of:

Project Type WS&R Dev.
AOR(s) Water Supply, Water Quality
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Peace River, Manasota
Cooperator(s)
Project Manager JONES, GREGG
Task Manager(s)
Status Ongoing

Description

In 1997, the Florida Legislature amended the Water Resources Act to clarify the water management districts' responsibilities relating to water supply planning and water resource development. Specifically, the water management districts were directed to complete a district-wide water supply assessment by July 1, 1998. Further, the districts were to develop regional water supply plans for regions where demands are expected to exceed available supplies by 2020. The SWFWMD regional water supply plan encompasses a ten-county area extending from Pasco County in the north to Charlotte County in the south. This region encompasses the northern Tampa Bay region and the Southern Water Use Caution area. Projected water needs increase from 1.4 billion gallons per day (bgd) in 2000 to 1.67 bgd in 2020, a 19 percent increase. Staff has identified over 500 mgd of potential supplies, including demand management, to meet these needs. The reserves for water supply and resource development will be used to cooperatively fund future water supply and resource development projects to meet the needs identified in the regional water supply plan. Potential uses for these funds include restoration of surface water storage throughout the basin.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	72,502,972	44,848,192	49,832,494	0	167,183,658
011 Alafia River Basin	75,869	1,185,863	0	0	1,261,732
013 Hillsborough River Basin	1,327,494	3,106,996	0	0	4,434,490
014 Northwest Hillsborough Basin	3,225,900	500,000	1,000,000	0	4,725,900
015 Coastal Rivers Basin	409,952	221,507	10,409	0	641,868
016 Pinellas-Anclote River Basin	6,830,729	0	5,861,126	0	12,691,855
020 Peace River Basin	1,457,330	289,988	624,109	0	2,371,427
021 Manasota Basin	6,696,447	90,000	0	0	6,786,447
			Total		\$200,097,377

Status As Of: July 10, 2007

At the December 2006 meeting, the Board approved the transfer of \$218,953 to fund the CF Industries Aquifer Recharge and Recovery Project (H062). At the June 2007 meeting, the Board approved the transfer of \$33,750 to fund the PR/MRWSA Regional Resource Development Feasibility Study (H063). The remaining balance is \$1,494,583.

Mini-FARMS Program

Project Type WS&R Dev.
AOR(s) Water Supply, Water Quality
Basin(s) Alafia River, Hillsborough River, Peace River, Manasota
Cooperator(s)
Project Manager ESTES, CAROLE
Task Manager(s) BRUMBAUGH, DAVID
Status Ongoing

Description

In October 2005, the Southwest Florida Water Management District (District) and the Florida Department of Agricultural Consumer Services (FDACS) agreed to design and implement a reimbursement program, following the general Facilitating Agricultural Resource Management (FARMS) Program (H017) procedures, to directly assist smaller growers (generally defined as having irrigated acreage of less than 100 acres) on water resource projects that reduce water use. This new program, called the Mini-FARMS Program, is in the final stages of development and will be administered by FDACS, through contractual agreements with the local Soil and Water Conservation District. The District has proposed to provide funding assistance to FDACS in the amount of \$75,000 per year in support of the Mini-FARMS Program, beginning in FY2007. The cost share reimbursement rate will be capped at 85 percent of verified costs for eligible items, up to a maximum amount of \$8,000 per project. The Mini-FARMS Program will require an application process that District staff will review, along with FDACS and a contract with the applicable Soil and Water Conservation District. Potential Mini-FARMS Program cooperators will sign a "Notice of Intent" form that will be submitted to FDACS staff to provide documentation that serves as proof of the applicant's intent to implement best management practices (BMPs) in accordance with Florida Statute 403.067(7)(c)2.

Benefits

The goal for Mini-Farms is to offset 2 mgd of groundwater by 2025. Mini-FARMS Projects will primarily increase efficiency of irrigation water use. Each project's performance will be tracked to determine effectiveness.

Costs

FY2006 costs will be funded by FDACS. For FY2007 the District is committing \$75,000 towards implementation of this program. Fifty percent of District Funding will come from the Governing Board with the remaining funding split between the Peace River (32.26%), Manasota (14.03%), and Alafia (7.28%) Basin Boards based on the percentage of agricultural land use in that basin. The amount of money FDACS has committed to the program in 2006 will fund approximately seven projects. The cost benefit is estimated to average \$0.74 over the three year term of the contract and \$0.14 when amortized over 30 years.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	37,500	0	0	37,500
011 Alafia River Basin	0	5,096	0	0	5,096
020 Peace River Basin	0	22,583	0	0	22,583
021 Manasota Basin	0	9,821	0	0	9,821
			Total		\$75,000

Status As Of: May 11, 2007

For fiscal year 2007, the District and FDACS authorized funding to four Soil and Water Conservation Districts responsible for administering Mini FARMS over nine Southern Water Use Caution Area counties. So far, Hardee County has two projects completed, Hillsborough county has six projects completed and three in progress, Highlands has three projects pending, Polk has three projects pending, and Charlotte County has one project in progress for a total of eighteen projects initiated since program inception. Cumulative cost-share reimbursements at 85 percent of total project costs (completed and obligated) for all counties to date is nearly \$100,000.

Polk - WMPlan Saddle Creek

Project Type	Cooperative Funding
AOR(s)	Flood Protection
Basin(s)	Peace River
Cooperator(s)	Polk County Natural Resources
Project Manager	TURNER, DAWN
Task Manager(s)	
Status	Ongoing

Description

This project is part of a multi-year funded, multi-phased program to develop a comprehensive surface water maintenance program for the Saddle Creek Watershed. This project is one of the eight intermediate conveyance system projects that were approved through a Letter of Agreement between the District and Polk County dated November 21, 1996. This project includes the preparation of a Watershed Management Plan, and Implementation of Best Management Practices (BMPs). The Saddle Creek Watershed Management Plan Final Report was received on May 27, 2003, and was approved by District staff on July 8, 2003. During the summer of 2003, the County became aware that significant erosion damage was occurring below Lake Parker at a 90 degree turn in the outfall canal. This problem was identified in the Saddle Creek Watershed Evaluation. However, the problem has worsened considerably. The County will perform emergency stabilization measures as part of the Immediate Maintenance task. Final design, permitting and construction of other improvements needed in the Lake Parker outfall canal will be performed as part of the Implementation of BMPs task. Amendment 3 was executed on March 18, 2005 to extend the deadlines for the Immediate Maintenance and Implementation of BMPs tasks to December 31, 2007; and extend the contract termination date to June 30, 2008.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) with their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies; and 2) provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management through the Total Maximum Daily Loads (TMDL) process for their National Pollution Discharge Elimination System (NPDES) permit requirements.

Costs

The total funding amount for this project is \$2,400,000, of which the District's share is \$1,200,000. The County will contribute \$1,200,000.

Additional Information

The project involves elements of a Watershed Management Program. A Watershed Management Program includes five major elements: Topographic information, Watershed Evaluation, Watershed Management Plan, Implementation of Best Management Practices, and Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. A WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The Topographic Information element provides the foundational information used to define the watershed's boundaries, storage and conveyance. The Watershed Evaluation element tasks includes field evaluation of the watershed and its intermediate conveyance system, inventory of water resources and stormwater management infrastructure, data development and GIS processing of watershed parameters, and an immediate maintenance evaluation. The Water Management Plan tasks include survey, data management and development of watershed parameters, GIS processing, computer modeling, floodplain analysis, surface water resource assessment (water quality), establishment of level of services (LOS), and a best management practices (BMP) alternative analysis which includes prioritized recommendations and probable costs.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	1,233,792	2,246	2,379	0	1,238,417
Project Funds Not Budgeted by the District					
Polk County	1,200,000	0	0	0	1,200,000
			Total		\$2,438,417

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
Original WMP contract executed	10/2/00		10/2/00
Original WMP contract Notice to Proceed to County	10/3/00		10/3/00

Draft first amendment to Management Services	12/31/00	1/10/00
Basin Board approval of first amendment	2/16/01	2/16/01
Governing Board approval of first amendment	2/27/01	2/27/01
Draft first amendment returned from Management Services	2/28/01	1/24/00
First Amendment executed	5/15/01	5/14/01
Second amendment to Management Services	5/31/01	5/31/01
First Amendment Notice to Proceed	6/1/01	5/15/01
Second amendment returned from Management Services	7/13/01	7/13/01
Second Amendment executed	10/31/01	10/17/01
District logo on report	10/2/02	10/2/02
Watershed Management Plan	10/2/02	5/27/03
Third amendment to Management Services	11/16/04	11/16/04
Third amendment returned from Management Services	12/16/04	12/16/04
Third Amendment sent to County for signature	1/11/05	1/11/05
Third Amendment executed	2/28/05	3/18/05
District logo on sign at construction site	5/1/06	5/1/06
Immediate Maintenance	12/31/07	
Implementation of BMPs	12/31/07	
Project Complete	12/31/07	
Contract Close Out	6/30/08	

Status As Of: July 05, 2007

Construction of erosion control features in the vicinity of a 90 degree turn in the Lake Parker outfall canal has been completed. The County will retain a consultant to perform design and permitting tasks for energy dissipating features that will be installed in the bottom of the Lake Parker outfall canal. Status History: The Peace River Basin Board has encumbered \$1,033,150 for this contract, of which \$412,625 has been expended by the District (including \$159,595 expended by the Operations Department for maintenance in lower Saddle Creek below Lake Hancock). The prior funding amount shown in the table includes funds encumbered by a separate Agreement #98000CON179. To date, the total amount encumbered through the two contracts is \$1,200,000, of which \$906,607 has been expended.

Project Type	Cooperative Funding
AOR(s)	Water Quality
Basin(s)	Peace River
Cooperator(s)	Highlands County, Florida Department of Environmental Protection, City of Sebring
Project Manager	KOLASA, KEITH
Task Manager(s)	
Status	Ongoing

Description

Little Lake Jackson is a 140-acre lake that discharges into Lake Jackson. The lake and associated watershed comprises approximately 13.5% of the watershed of Lake Jackson, which makes it a significant contributor of water quantity and water quality to Lake Jackson. Water quality in Little Lake Jackson is poor due to the nutrient enrichment associated with urban development. This project provides the design, permitting, and construction of a stormwater treatment system that uses alum injection to reduce nutrient loads to the lake. The completed project will reduce nutrient loading within the lake's primary drainage inflow from a 400 acre drainage basin. Previous studies documented high nutrient load discharging to the lake through this basin. An additional urban drainage area comprising roughly 80 acres will be directed through the alum treatment system in the future to provide a treatment to almost 60% of the Little Lake Jackson watershed.

Benefits

This project will design, permit, and construct a stormwater treatment system that will treat runoff from a 400 acre basin to Little Lake Jackson. The completed project should reduce phosphorus loading from this problematic basin by 60 to 70 percent, therefore, enhancing the water quality of Little Lake Jackson. Reduction of nutrient loads to Little Lake Jackson may improve water quality in Little Lake Jackson by reducing algae blooms and improving water clarity. Reducing nutrient loads to Little Lake Jackson will also reduce nutrient loads to Lake Jackson.

Costs

The total project cost not including salaries is \$249,644, and the District's share is \$94,306. A total of \$40,000 was funded in FY1999 for the stormwater assessment and preliminary design. In FY2004, \$209,644 was funded for design, permitting, construction, and water quality monitoring. Funding in FY2007 is being provided for staff salaries, travel, and central garage associated with the project's follow-up water quality monitoring.

Additional Information

A cooperatively funded (Sebring, Highlands County, District) stormwater assessment was completed in November of 2000. It found that most surface water runoff enters Little Lake Jackson through Sub-basin 1, the largest sub-basin at 497 acres. Continuous flow was observed out of this sub-basin as the result of the shallow water table. The concentrations of nutrients that were measured during the project suggest that anthropogenic sources were significant contributors of nutrients within runoff entering Little Lake Jackson. Land use data suggest that the primary anthropogenic nutrient sources within Sub-basin 1 appear to be both residential and golf course fertilizer. Alum injection was selected as the water quality treatment method of retrofit. Alum injection is highly efficient for reducing phosphorus within runoff. Reducing phosphorus loads within runoff to Little Lake Jackson is desired since the lake is phosphorus limited. Lake restoration activities addressing nutrient reduction typically apply focus on reducing the limiting nutrient. The second phase of the project which included the project permitting and construction was funded in FY2002. As a result of rule changes made by FDEP and a stipulation placed on the project construction, the project design had to be modified to include the addition of a sedimentation pond to collect the alum floc. Due to these changes and the associated increase in the project budget, a new agreement was prepared under the FY2004 budget to include the cost for the pond construction.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	95,108	8,244	3,199	0	106,551
Project Funds Not Budgeted by the District					
FDEP	79,000	0	0	0	79,000
Highlands County	28,588	0	0	0	28,588
Sebring	27,750	0	0	0	27,750
			Total		\$241,889

Critical Project Milestones

1. Contract Development & Execution - Phase I

	Projected	Amended	Actual
Draft Agreement to Contracts Adm.	4/15/99		6/30/99
Basin Board Approval of Interlocal Agreement	6/15/99		8/20/99
Governing Board Approval of Interlocal Agreement	6/30/99		8/27/99
Agreement Approved By County Commission	7/15/99		9/7/99

Contract Executed	7/28/99		9/29/99
Notice to Proceed	12/31/99		4/17/00
2. Phase I			
Preliminary Design	9/1/00	10/30/01	11/1/01
Final Design	3/30/01	12/30/01	12/20/01
Permitting	5/30/01	1/30/02	9/30/02
3. Close Out - Phase I			
Contract Termination	2/28/01	4/30/02	10/2/02
4. Contract Development & Execution - Phase II			
Draft Agreement to Contracts Adm.	8/15/01		10/5/01
Basin Board Approval of Interlocal Agreement	1/11/02		12/12/03
Governing Board Approval of Interlocal Agreement	1/30/02		12/16/03
Agreement Approved By County Commission and City Council	1/15/04		2/28/04
Contract Executed	1/30/04		3/22/04
Notice to Proceed	1/30/04		3/29/04
5. Phase II			
Redesign and Permitting	6/20/04		6/30/05
Construction	12/15/04	9/14/06	9/14/06
Start-up System and Training	12/30/04	3/14/07	6/30/07
6. Close Out - Phase II			
Contract Termination		4/15/07	
7. Water Quality Monitoring			
Water Quality Monitoring	11/30/07		

Status As Of: July 11, 2007

Advertising for the RFB for construction services took place on December 26, 2004. A pre-bid meeting was held on January 25, 2005. The County awarded the construction contract with a pre-construction meeting held on May 4, 2005. Construction of the building pad in Sebring started on the 3rd week of August 2005. The building was moved from Tampa to Sebring on August 30, 2005. Construction continued with land being cleared for the pond site. By November 2005 the pond was excavated and all fill material was hauled off site. Most of the structures were completed by December 2005, including the inflow and outflow structures for the pond. The existing pump and flow meter needed to be replaced. The County requested additional funds from the District and a revised task schedule in order to complete these repairs. A budget refinement memo was completed by the District staff that will allow a portion of the funding allocated for water quality monitoring to be used for the equipment repairs. The water quality monitoring is not a requirement under the project permit. The refinement memo also added six months to the construction task schedule. A purchase order was issued to the Consultant to order and install the new pump in early August 2006. The equipment was received on October 18, 2006, and the new pump and flow meter were installed, calibrated and tested. City staff started training on the operation of the system in December 2006. Background water quality sampling was completed in early November. The County and City have requested additional time to complete the training. A project schedule refinement memo was completed and approved. The adjusted schedule is shown above in the project milestones. An amendment was not needed since the contract termination period was not changed. Only task deadlines within the agreement were revised. The system is complete and training of City staff has been completed. Final invoices have been requested from Highlands County. The project will be closed out upon payment of the final invoices.

Polk County - Utilities Northeast Service Area Reuse Project

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality
Basin(s) Peace River
Cooperator(s) Polk County Utilities, Polk County
Project Manager NOURANI, MEHRSHAD
Task Manager(s)
Status Ongoing/No FY\$

Description

This project consists of the design and construction of a reclaimed water system in the I-4/US27 area of Polk County in 2 phases. The first phase includes one 3-million gallon capacity storage tank, a reclaimed water pumping facility, and associated on-site equipment and piping. Phase I will coincide with major modifications to the Polk County Northeast Regional Wastewater Treatment Facility (NERWWTF), resulting in a treatment capacity of 2.01 mgd ultimately upgradeable to 6 mgd. Phase I components will be constructed on the NERWWTF site. The second phase is comprised of a transmission system to service customers in Polk County's Northeast Service Area (NESA). This project provides reuse water to approximately 2,200 single family units, 500 multi-family units, and 3 golf courses.

Benefits

The project provides 2.01 mgd of reuse water for irrigation demand of these areas on build-out. The estimated offset is 1.2 mgd from the Polk County Utilities potable water supply system.

Costs

The total project cost is estimated at \$4,815,734. Permitting and design cost estimate is \$481,573; pumping cost estimate is \$500,000; Storage cost estimate is \$700,000; and transmission line cost is estimated at \$3,134,160. The Peace River Basin Board's share is \$2,407,867. So far, the District has reimbursed \$909,183.

Additional Information

The transmission line route lies within the boundaries of the Peace River Basin of the Southwest Florida Water Management District. Phase II is subdivided into Phase 2A and Phase 2B, which initially was located within the SJRWMD. Phase 2A includes approximately 24,500 linear feet of 24-inch diameter reclaimed water transmission main and 12,500 linear feet of 20-inch diameter reclaimed water transmission main north and south of the I-4/US27 intersection. Customers include Deer Creek Subdivision, Deer Creek Golf Course, Royal Palms Subdivision, Rio Ridge Subdivision, Regency Ridge Subdivision, Ridgewood Lakes Subdivision, Ridgewood Lakes Golf Course, Monahan Tract Subdivision, West Haven Subdivision and West Haven Golf Course.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	1,429,535	1,878	654	0	1,432,067
Project Funds Not Budgeted by the District					
Polk County	0	0	2,407,876	0	2,407,876
			Total		\$3,839,943

Critical Project Milestones	Projected	Amended	Actual
Draft Agreement to Contract Administration	11/1/99		11/10/99
Draft Agreement returned from Contract Administration	12/15/99		1/5/00
Contract Executed	2/15/00		2/24/00
Begin Construction	9/30/05		12/31/06
Complete Construction	1/31/08		
Contract Close-out	1/31/08		

Status As Of: June 15, 2007

NERUSA- the design and construction of on-site reuse components at the NERWWTF are complete. The relocation of utility lines by FDOT is underway. Construction and testing along south portions of US 27. The redesign to include West Haven developments is underway and will affect the current design of this portion of the reclaimed water line. The new design will be forwarded to the District upon completion.

Charlotte County School Board - Imp. BMPs Punta Gorda Campus

Project Type	Cooperative Funding
AOR(s)	Flood Protection, Water Quality
Basin(s)	Peace River
Cooperator(s)	Charlotte County School Board
Project Manager	FRIES, GEORGE
Task Manager(s)	
Status	Ongoing

Description

This is a project to perform the Implementation of Best Management Practices (BMPs) element of the District's Watershed Management Program (WMP) for a portion of the Upper Alligator Creek Watershed (North Fork) located in Punta Gorda. Implementation of BMPs includes the following tasks: design, development of construction documents, construction permitting, land acquisition, bidding and contractor selection, construction of the BMPs and construction engineering and inspection. The study area is 280 acres, bounded by Carmalita Street to the north, Education Avenue to the east, Cooper Street to the west and Taylor Road to the south. The land use is partly residential which was built in the 1960's but it includes four Charlotte County School Board campuses and facilities: Sallie Jones Elementary School, Charlotte High School, Punta Gorda Middle School and the Central Operations Center built in 1956, 1926, 1971 and 1966, respectively. The proposed project consists either of (1) improving +/- 8,600 lf. of an intermediate conveyance way along Education Ave., Henry St. and Cooper St. that includes replacing the inadequate roadway culvert crossings, or (2) collecting the surface water runoff within the complex through a surface water management area on the corner of Henry St. and Education St., and diverting it by gravity to Airport St. through a pipe system along Education St., or (3) combination of both, depending on regulatory constraints.

Benefits

The project will improve level of service deficiencies by improving conveyance and providing additional storage within the watershed. The project is also expected to improve water quality by increasing residence times in the storage area.

Costs

Funding for this project was provided in the Peace River Basin Board budget for FY2001 (\$280,000). The School Board is also contributing \$280,000 to the cost of the project. The District funding amounts shown in the table includes staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of BMPs, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems while achieving flood protection. Finish floor elevations are substandard, with shallow and non-uniformly graded road right-of-way conveyances, and mismatched culvert sizes and inverts. A mean annual summer rainfall event will flood these campuses and the adjoining residential areas. The existing collection, storage and conveyance elements will be improved to provide flood protection, and water quality treatment. The improvements will balance on site storage and off site conveyance where downstream property owners will not be adversely impacted. A cooperative funding expenditure agreement with the Charlotte County School Board has been developed to complete the Implementation of this BMP. The School Board is managing the project, where the District project manager must approve any agreements to accomplish project tasks.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	299,903	1,049	1,943	0	302,895
Project Funds Not Budgeted by the District					
Charlotte County School Board	280,000	0	0	0	280,000
			Total		\$582,895

Critical Project Milestones

1. Critical Project Milestones

Construction sign will show District logo

Projected

4/30/05

Amended

Actual

2. Cooperator Agreement

Draft agreement to Contracts

12/31/00

1/24/01

Basin Board Approval of Interlocal Agreement

2/28/01

2/16/01

Governing Board Approval of Interlocal Agreement

2/28/01

2/28/01

Contract Executed

3/31/01

7/16/01

Notice to Proceed

3/31/01

7/16/01

No cost time extension executed	9/12/05		9/12/05
2nd no cost time extension executed	10/2/06		10/2/06
3. Consultant Services			
Task 1 - Stormwater Mgt. Infrastr. Evaluation & Conceptual Permit	2/28/02	1/31/04	1/31/04
Task 2 - Design, Permitting and Bid Documents	6/30/02	7/31/04	5/10/05
4. Construction			
Task 3 - Commence Construction	11/16/02		
Complete Construction	1/16/04	1/31/09	
5. Contract Completion			
Cooperator Agreement Expiration	7/17/05	7/17/09	
Status As Of: July 06, 2007			

Status History: The project has two distinct parts: the first part is the Cooperative Funding Agreement between the School Board and the District for the on-site improvements and the second part is the Inter-local Services Agreement between the School Board and the County for the off-site improvements. A project kick-off meeting was held on June 2, 2003 and design work began. Engineering work progressed to where the first task was completed as scheduled. The next project phase, "Design, Permitting and Bid Documents," was scheduled to be completed July 31, 2004. The application for a conceptual permit was actually not submitted until October 25, 2004. Sarasota regulatory staff submitted a request for additional information (RAI) to the consultant on December 2, 2004 and received and evaluated the consultant's response. Another RAI was sent to the consultant on February 18, 2005. An ERP was issued on May 10, 2005 which was about one year behind schedule. A contract amendment to extend the completion date to 07/17/2007 was executed. The County Real Estate acquisition staff has been working on obtaining right-of-way and easements necessary for the project. They initially estimated that this work would be completed by mid-summer of 2006. The project was expected to be let for bids at that time. The County then estimated that all real estate acquisition would be completed by November 2006. The County was planning on bidding the project in November 2006. A second no-cost time extension Amendment to the Agreement was executed to extend the contract completion date from July 17, 2007 to July 17, 2009. The County then planned on advertising for bids for this project, in conjunction with their Carmelita Avenue project, in March 2007. **Current Status:** Right-of-way and easement acquisition are now complete. The County scheduled bid opening for July 6, 2007 but, in response to questions from contractors, bid opening is delayed until mid-July. County Commission contract award will be in August 2007 and construction is expected to start by September 2007.

Lake Wales - WMPlan Lake Wales

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) Lake Wales
Project Manager FRIES, GEORGE
Task Manager(s)
Status Ongoing

Description

This is a project to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program for the City of Lake Wales. The proposed study area is approximately 32 square miles and is located in east central Polk County. The issues that concern the City are excessive sediment accumulation and possible water quality deterioration in Lake Wailes and flood protection within the watershed. The City also experiences localized flooding due to system inadequacies.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) with their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies, and 2) provides a geodatabase and projected results from watershed model simulations for floodplain management and water quality management.

Costs

Funding for this project was provided in the Peace River Basin Board budgets for FY2002 (\$37,500) and FY2003 (\$117,500) for a total funding commitment of \$155,000. For FY2003 and FY2004, \$310,000 was appropriated in the Basin Board's budget with a revenue of \$155,000 from the City of Lake Wales. When each element is completed the project budget and scope may require refinement based on the information gathered. The District funding amounts shown in the table include staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of BMPs, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. A cooperative funding revenue agreement with the City of Lake Wales has been developed. The District is managing the project and has entered into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	172,374	1,106	0	0	173,480
District Budgeted - Outside Revenue					
Lake Wales - Stormwater Mgmt Plan Dev (K734)	155,000	0	0	0	155,000
			Total		\$328,480

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
District logo will appear on all reports	11/15/05		12/22/05

2. Cooperator Agreement

Draft Agreement to Management Services	6/24/03		6/24/03
Draft Agreement returned from Management Services	7/1/03		7/1/03
Basin Board Approval of Agreement	8/15/03		8/15/03
Governing Board Approval of Agreement	9/24/03		9/24/03
Contract Executed	12/31/04		12/29/04

3. Consultant Agreement

Consultant Contract Executed	5/15/05		5/31/05
Consultant Notice to Proceed (Work Order #1, WE)	5/16/05		6/6/05
Element 2, Watershed Evaluation Commence	5/20/05		6/7/05
Element 1, Digital Topographic Information Commence	10/15/05		11/10/05
Work Order #2 (DTI & WMP)	11/10/05		11/10/05

Lake Wales - WMPlan Lake Wales

Element 2, Watershed Evaluation Complete	11/15/05		12/22/05
Element 1, Digital Topographic Information Complete	12/15/05	2/28/06	2/28/06
Element 3, Watershed Management Plan Commence	1/15/06	2/10/06	1/25/06
Element 3, Watershed Management Plan Complete	8/12/06	12/31/06	12/31/06
Consultant Agreement Expiration	8/12/06	12/31/06	12/31/06
Cooperator Agreement Expiration	12/31/07		

Status As Of: July 05, 2007

Status History: Because of staff turnover at the City and because of the District's expertise in the development of watershed management plans, the City, in July 2004, requested that the District act as the lead party to the agreement. The cooperative funding revenue agreement with the City was executed on December 29, 2004. A consultant services agreement with PBS&J was executed on May 31, 2005 and the consultant began work. The Watershed Evaluation was submitted to the District on December 9, 2005 and was approved on 01/23/2006. Work Order #2 incorporating the Watershed Management Plan and some additional topographic work was executed and work began. A progress meeting to discuss the work encompassed by Work Order #2 (Watershed Management Plan) was held on May 12, 2006 and work was progressing satisfactorily. The consultant notified the District project manager at that meeting that it expected to complete all work by August 12, 2006. The consultant notified the District project manager on August 8, 2006 that, due to unanticipated problems, it would need an additional two to three months to complete the project. An Expired Agreement to provide an additional four months (until 12/31/2006) to complete the project was executed. The Consultant indicated that the Watershed Management Plan would be submitted for approval by October 31, 2006. **Current Status:** The final Watershed Management Plan was delivered to the District on December 29, 2006 and is under review.

Arcadia Reuse System Expansion

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality
Basin(s) Peace River
Cooperator(s) City of Arcadia
Project Manager ANTOINE, TAMMY
Task Manager(s)
Status Ongoing

Description

This alternative water supply project includes the design and construction of 13,200 feet of 8-inch diameter reclaimed water transmission main pipelines, a variable speed high service pumping unit, and associated appurtenances.

Benefits

This project will provide approximately 0.40 mgd of reclaimed water for citrus grove irrigation and offset approximately 0.30 mgd of withdrawal from the intermediate aquifer.

Costs

The Peace River Basin budgeted \$300,000 in its FY2003 budget toward the completion of this project at a total estimated cost of \$600,000.

Additional Information

The city currently provides a collective 0.43 mgd of reclaimed water to the city cemetery and city athletic field recreational complex (collective 0.16 mgd), the city's 18-hole golf course (0.26 mgd)(WUP # 9105), and one residential customer (0.01 mgd). Collectively, these sites offset an estimated 0.32 mgd of water withdrawal from the intermediate aquifer. New customers and associated offset quantities include Sorrels (0.145 mgd), B&D Veach (0.060 mgd), Perry (0.037), Brewer (0.021 mgd)(WUP # 11373), and Knight (0.037 mgd) citrus groves. The city's current wastewater treatment facility (WWTF) has a treatment capacity of 2.0 million gallons per day (mgd) and, in 2002, an average flow of 1.5 mgd. This project will expand the city's existing reclaimed water system, which was made possible by a cooperative funding grant in 1991 and involved the construction of a 600,000 gallon storage tank, 12,000 feet of 10-inch and-12 inch transmission main pipelines, and pumping station. Upon completion of this project, the city will provide a total of approximately 0.83 mgd of reclaimed water and offset approximately 0.62 mgd of withdrawal from the intermediate aquifer.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	303,384	2,822	0	0	306,206
Project Funds Not Budgeted by the District					
City of Arcadia	300,000	0	0	0	300,000
			Total		\$606,206

Critical Project Milestones

	Projected	Amended	Actual
Draft Agreement to Contracts Administration	12/13/02		8/8/03
Draft Agreement Returned from Contracts	2/28/03	9/8/03	9/18/03
Basin Board Authorization of Agreement	4/30/03		8/24/03
Commence Design	5/1/03	5/1/04	1/1/05
Contract Executed	5/15/03		9/27/03
Signage Erected	10/1/03	7/1/06	6/30/06
Complete Design	10/1/03	2/1/06	4/1/06
Commence Construction	10/1/03	7/1/06	6/30/06
Complete Construction	5/1/04	12/1/06	10/11/06
Contract Close-out	10/1/04	5/1/07	
Offset Report	5/1/07	5/1/10	

Status As Of: June 12, 2007

Construction was completed on October 11, 2006 and the installation of the meters to the customers has been completed. A letter from the design engineer certifying that the project was completed according to the cooperative funding agreement, a corrected invoice, the Education requirements, and the GIS requirements have been submitted. The City of Arcadia has submitted a request for payment. A G-2, G-3, and payment memo has been routed to Accounts Payable to reimburse the City of Arcadia for \$300,000.

Charlotte County Victoria Estates Reuse

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality
Basin(s) Peace River
Cooperator(s) Charlotte County Utilities
Project Manager ANTOINE, TAMMY
Task Manager(s)
Status Cancelled

Description

This alternative water supply project includes the design and construction approximately 400 linear feet of 6-inch diameter reuse line and approximately 4,500 linear feet of 8-inch diameter reuse transmission line, for a total of approximately 4,900 linear feet of reuse transmission line, to connect Victoria Estates Golf Course to the existing Charlotte County Utilities East Port wastewater treatment facility (WWTF) reuse transmission system.

Benefits

This project will provide approximately 310,000 gallons per day of reuse water flow for golf course irrigation offsetting a total of 230,000 gallons per day of traditional water use (0.17 mgd of ground water use from the surficial aquifer and 0.06 mgd of surface water use).

Costs

The Peace River Basin's entire funding contribution of \$102,000 was included as part of its FY2003 budget, and the additional funds are for District staff time for project management. The total estimated cost of this project is \$204,000. The cost in terms of benefit is \$0.21/1,000 gallons, amortized over 30 years at eight percent interest.

Additional Information

The East Port WWTF is capable of providing public access quality reclaimed water and currently has a wastewater treatment capacity of 5.0 million gallons per day (mgd), a wastewater flow of approximately 3.3 mgd, and collectively supplies approximately 0.63 mgd of reclaimed water to Kingsway Country Club, Maple Leaf Estates, and Port Charlotte Country Club for golf course irrigation, and to Mary Lu Mobile Home Park for residential irrigation. Charlotte County's existing East Port WWTF reuse transmission system was partially funded with Peace River Basin Board cooperative funding dollars via the Charlotte County Reuse Project (P399), which is complete. Project design is scheduled to begin by May 1, 2003, project construction is scheduled to begin September 1, 2003, project completion is scheduled for September 1, 2004, and contract termination is December 31, 2004. An expired agreement was executed on September 21, 2005, extending the contract termination date to December 31, 2007.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	2,036	2,422	0	0	4,458
			Total		\$4,458

Critical Project Milestones

	Projected	Amended	Actual
Amendment (Expired Agreement) Executed			9/21/05
Draft Agreement to Contracts Administration	12/13/02		1/9/03
Draft Agreement Returned from Contracts Administration	2/8/03		3/31/03
Basin Board Approval of Cooperative Funding Agreement	4/30/03		2/1/03
Governing Board Approval of Cooperative Funding Agreement	4/30/03		2/1/03
Commence Design	5/1/03		6/1/03
Contract Executed	5/15/03		6/12/03
Complete Re-design	9/1/03	4/30/06	
Commence Construction	9/1/03	4/30/06	
Signage Erected	9/1/03		
Complete Construction	9/1/04	9/30/07	
Contract Close-out	12/31/04	12/31/07	
Offset Report	12/31/07	12/31/10	

Status As Of: October 25, 2006

Charlotte County submitted a request to cancel the project on August 29, 2006 due to complications with the pond agreement at Victoria Estates. A letter of notification to cancel from the District was mailed to the county on October 12, 2006, effective upon receipt.

Englewood Lemon Bay High School Reuse Extension

Project Type	Cooperative Funding
AOR(s)	Water Supply, Water Quality
Basin(s)	Peace River
Cooperator(s)	Englewood Water District
Project Manager	MCGOOKEY, SCOTT
Task Manager(s)	
Status	Ongoing

Description

This project consists of the design and construction of approximately 7,000 linear feet of 6-inch diameter reuse transmission line from the Englewood Water District's (EWD) existing reuse system to Lemon Bay High School Athletic fields and the proposed Charlotte County Oyster Creek Park.

Benefits

The project provides 0.11 mgd of reclaimed water to Lemon Bay High School Athletic fields and the proposed Charlotte County Oyster Creek Park to offset 0.08 mgd of potable groundwater.

Costs

The total cost is \$300,000, and the District's share is requested to be \$150,000. The Peace River Basin budgeted \$150,000 in FY2004. The cost, amortized at 8 percent over 30 years, is \$.90 per 1,000 gallons offset. Any additional funds are for staff time.

Additional Information

The new main will advance from the present north-south main on San Cas Drive, west to the proposed Oyster Creek Park, and then west on to Lemon Bay High School. The Lemon Bay High School athletic fields currently occupy four irrigated acres and an additional three acres are planned to be constructed in the near future, resulting in approximately 0.06 mgd of potable water irrigation demand. The newly developed Charlotte County Oyster Creek Park includes four baseball fields, two football fields, four soccer fields comprising a total of approximately 11 acres and approximately eight additional acres of other landscaped amenities. If reclaimed water is not provided, the irrigation source would be groundwater from the surficial or upper intermediate aquifer, which is the main potable water aquifer system in the project area. Based on the University of Florida Institute of Food and Agricultural Science (IFAS) irrigation recommendation of 42 inches annually, Oyster Creek Park will have an irrigation demand of approximately 0.06 mgd.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	155,652	2,344	1,753	0	159,749
Project Funds Not Budgeted by the District					
Englewood Water District	150,000	0	0	0	150,000
			Total		\$309,749

Critical Project Milestones

	Projected	Amended	Actual
Draft Agreement to Contracts Administration	10/1/03		9/17/04
Draft Agreement sent to Cooperator	8/31/04		10/1/04
Contract Executed	9/1/04		8/14/05
Design Commencement	9/1/04	3/1/06	2/28/06
Design Complete	12/1/04	2/1/07	2/23/07
Construction Commencement	1/1/05	3/1/07	
Construction Completion	10/1/05	11/1/07	
Contract Termination	10/1/06	12/31/08	
Signage Erected	3/1/07		

Status As Of: June 25, 2007

Damage to the school from hurricane Wilma has delayed this project. EWD met with the school board on January 10, 2006 and approved the agreement with the EWD to utilize reclaimed water at the schools athletic fields. The project design was awarded to Giffels-Webster Engineers on February 28, 2006. Design is now complete. Base maps have been prepared and the route of the pipe has been approved by Charlotte County Parks Department. Permits have been processed. A pre-bid meeting is scheduled for July 17th, 2007 with the bid opening on August 7, 2007. A no-cost time extension amendment was executed March 22, 2006. The Peace Basin Board encumbered \$150,000 in its FY2004 budget. To date, there has been no reimbursement of funds.

Lake Placid Reuse

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality
Basin(s) Peace River
Cooperator(s) Lake Placid
Project Manager ANTOINE, TAMMY
Task Manager(s)
Status Ongoing

Description

This alternative water supply project includes design and construction of a reclaimed water pump station and a 500,000-gallon capacity reclaimed water ground storage tank located at the town wastewater treatment facility (WWTF) site, and approximately 13,100 linear feet of 10-inch, 8-inch, and 6-inch diameter reclaimed water transmission main.

Benefits

This project will provide approximately 95,000 gallons per day of reuse to the Town of Lake Placid to irrigate Town of Lake Placid Parks and Recreation facilities (81,000 gpd)(WUP # 9494), Lake View Village Retirement facility (4,000 gpd) and citrus groves owned by Bob Paul, Inc. (10,000 gpd)(WUP # 10077). The project will offset approximately 60,000 gpd of groundwater use currently used by these properties for irrigation purposes.

Costs

The Peace River Basin's total contribution, requested by the Town of Lake Placid, is based on Rural Economic Development Initiative (REDI) consideration. The total estimated project cost is \$1,374,200, with the Peace River Basin's share not to exceed \$928,060, and the Town's share not to exceed \$446,140. This funding contribution ratio represents a 67.5 percent / 32.5 percent District/Town split, as approved by the Peace River Basin Board. The Peace River Basin included \$100,000 for this project in its FY2004 budget and \$414,030 in its FY2005 budget. The Town requested that the Peace River Basin include \$414,030 in its FY2006 budget. However, funds in the amount of \$117,420 were allocated from the WPSP, changing the amount in FY2006 budgeted by the Peace River Basin to \$448,544.

Additional Information

The town has also indicated it is pursuing additional reuse customers that may be served in the future. The town anticipates providing its portion of the funding from grant sources, such as a community development block grant (CDGB) and other sources. Of the total project cost of \$1,374,200, approximately 90 percent (\$1,234,200) is expected to be needed for construction, and the remainder (\$140,000) for design and administration.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	848,388	0	1,166	0	849,554
District Budgeted - Outside Revenue					
Water Protection & Sust T.F. (Alternative Wtr)	117,420	0	0	0	117,420
Project Funds Not Budgeted by the District					
Town of Lake Placid	411,626	0	0	0	411,626
			Total		\$1,378,600

Critical Project Milestones

	Projected	Amended	Actual
Draft Agreement to Contracts Administration	7/12/04		9/17/04
Draft Agreement Returned from Contracts Administration	8/12/04		11/10/04
Contract Executed	9/1/04		1/5/04
Design & Permitting Commencement	12/1/04		12/9/04
Design & Permitting Completion	12/31/04	5/1/06	
Signage Erected	3/1/05	5/1/06	
Construction Commencement	3/1/05	5/1/06	
Construction Completion	3/1/05	5/1/07	
Contract Close-out	12/31/06	12/31/08	
Offset Report	12/31/09	12/31/11	

Status As Of: July 02, 2007

The engineering consultants (Keith & Schnars) were given notice to proceed on March 17, 2005, and as of June 29, 2007 have completed 100% of the design. A no-cost-time extension was executed on September 12, 2005 to allow for the completion of design and for project construction; extending the contract expiration date to December 31, 2008. A second amendment was executed on May 22, 2006 to reflect State of Florida funding participation, SB 444. The Town of Lake

Placid has requested a change in the scope of work and extension of the timelines due to a portion of the pipeline being installed and paid for under a CDBG. The engineering consultants are also working with D.E.P. to obtain the necessary permitting for the construction upgrades to the wastewater treatment plant. Staff is currently preparing a third amendment, which is expected to be presented to the rescheduled July Peace River Basin Board. To date, \$962,574 has been encumbered, of which \$0 has been reimbursed.

Polk County Utilities Toilet Rebate Program

Project Type	Cooperative Funding
AOR(s)	Water Supply
Basin(s)	Peace River
Cooperator(s)	Polk County
Project Manager	MUSICARO, MELISSA
Task Manager(s)	
Status	Ongoing

Description

This project involves the issuing of rebates as an incentive for the replacement of pre-1995 high-volume toilets with approximately 700 low-volume toilets in Polk County. This project was identified in the Polk County Utilities (PCU) Water Conservation Plan as a regulatory measure to bring high-volume fixtures into compliance with the Water Efficient Plumbing Code (Ordinance No. 98-02). PCU will screen potential program participants by requesting the completion of an application designed to identify single-family residential homes within the unincorporated areas of Polk County that have high-volume toilets. Actual participation will be on first-come/first-served basis by response to the survey. All interested survey respondents will receive water conservation education packages with a letter indicating the respondent's eligibility for the program. PCU may contract with a consultant to administer the program, which includes conducting inspections after installation and issuing the rebate checks. The cost of program administration is anticipated to be approximately \$28,000. PCU will budget \$100,000 for the total project cost to include the cost of program administration and the funds to issue rebate checks in the amount of \$100 for the first toilet and \$50 for each additional toilet. PCU will examine billing records for water use 12 months prior to and 12 months following the installation of the low-flow toilet in the residence to calculate actual water savings incurred through this program.

Benefits

The water savings associated with this project are estimated to be 9,433 gallons of water per day.

Costs

The total project costs are estimated to be \$100,000. The Peace River Basin Board is contributing \$50,000 in District funding from their FY2004 budget. The cost benefit for the project, using the total cost amortized over 20 years at 8% interest, is \$2.92 per thousand gallons.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	56,528	1,606	0	0	58,134
Project Funds Not Budgeted by the District					
Polk County	50,000	0	0	0	50,000
			Total		\$108,134

Critical Project Milestones

	Projected	Amended	Actual
Draft Agreement to Contract Administration:	12/31/03		1/6/04
Draft Agreement returned from Contract Administration:	1/31/04		1/30/04
Rebates Commence:	2/28/04	5/15/04	10/15/04
Rebates Complete:	2/28/04	11/30/05	11/30/05
Contract Executed:	3/1/04		6/3/04
Notice to Proceed:	3/1/04		6/7/04
Basin Board Notification:	12/1/04		12/10/04
Project Complete:	6/30/06	11/30/06	1/31/06
Contract Termination:	12/31/06		

Status As Of: July 03, 2007

The Agreement was sent to the cooperator for signatures in February 2004, and was executed on June 3, 2004. The delay in executing the Agreement was due to the County's Board approval schedule. To date, a total of 347 toilets have been installed, of which 134 have been rebated in the Peace River basin. The toilets rebated in the other basins are not eligible for District funds. The project is complete and the final report was submitted in January 2006. The final reimbursement request is being processed.

SEC Southern Coastal Watershed Education

Project Type	Cooperative Funding
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	Peace River, Manasota
Cooperator(s)	Science & Environmental Council of Sarasota
Project Manager	ANTOINE, KENDRA
Task Manager(s)	
Status	Ongoing

Description

The SEC Southern Coastal Watershed Education program provides education about Sarasota County's watersheds for decision-makers and the public. The SEC is a consortium of more than 25 organizations that advocate science, conservation, and environmental issues in Sarasota County. The goal of the SEC is to create an understanding of how the health, productivity and vitality of the area's natural systems, stormwater capacity, water supply, wastewater treatment and land-use patterns and policies are all part of a whole system. The SEC's Southern Coastal Watershed Education program will continue to promote the ground-breaking consensus on watershed management attained in FY2005 by staff from utilities, governments and environmental organizations, representatives of homeowner associations, civic leaders, builders and developers, and private-use planners. The FY2007 programming includes the design and development of portable indoor education kiosks, which will rotate to different SEC member organizations during special events and various functions. The indoor educational kiosks will launch at a policy-makers workshop being held at Selby Botanical Gardens on September 6, and will target decision-makers, home owner association and civic leaders, builders, developers and private use planners. In FY2008, the SEC proposes to expand on the FY2007 project by creating additional panels for the portable indoor kiosks and by designing and developing 14 permanent outdoor educational kiosks to be installed at select SEC member sites throughout Sarasota County. If approved, these kiosks will introduce visitors to Sarasota's watershed and explain watershed management's essential role in the sustenance of a dynamic, living system. Special events at the SEC member sites will kick-off the educational kiosks and coincide with a Watershed Awareness Week. Several of these member sites will feature "talk-back" boards during Watershed Awareness Week. The "talk-back" boards encourage Watershed Awareness Week participants to write messages about their watershed and reflect about their role in preserving their watershed.

Benefits

Approximately 300,000 individuals will receive education through visiting outdoor educational kiosks and attending the "Watershed Awareness Week" events. The program will educate the general public to better understand the watershed and how their actions as stewards can help protect local water resources. The project will also explain contributing factors that affect the natural cycle of the watershed.

Costs

The total FY2008 project cost is \$106,800, and the District's share is proposed at \$46,800, all of which is requested from the Manasota Basin Board. Although this project was originally submitted in both the Peace River and Manasota Basins for FY2008, upon further examination, cooperator will concentrate outreach in the Manasota Basin only and has withdrawn its request for FY2008 Peace River Basin Board funding. The FY2008 project is a \$31,800 (68%) increase compared to the FY2007 funding. This increase reflects a scope change. While previously the SEC conducted workshops, the FY2008 proposal expands outreach to an estimated 300,000 people and involves the development, design, installation and evaluation of the proposed kiosks. This program is projected to reach 300,000 residents directly through programming at a cost of 35 cents per person. Budget lines below include costs for staff to manage the project.

Additional Information

In FY2005, a series of workshops were implemented to develop a common understanding of water and watershed issues among leaders in Sarasota County. In FY2006, a DVD entitled "The Watershed And You: A Direct Connection," was distributed to developers, neighborhood associations, gardeners, business owners and residents. The cooperator revised their original FY2008 proposal to design and install an interactive computer kiosk in response to the District's concern over reliability issues with the computer kiosks.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	3,300	0	0	3,300
021 Manasota Basin	24,000	11,700	48,793	0	84,493
Project Funds Not Budgeted by the District					
Science and Environment Council of Sarasota County	24,000	15,000	60,000	0	99,000
			Total		\$186,793

Critical Project Milestones	Projected	Amended	Actual
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FY2007 Budgeted Funds

Initiate Purchase Order	10/1/06	10/1/06
Educational Kiosk	9/14/07	
Policy Makers Workshop	9/14/07	

Status As Of: June 21, 2007

A first draft of the graphic design for the 6 panel kiosks has been completed. A review meeting with the SEC Watershed Committee is scheduled for Monday, June 25. Once revisions have been made, the panel layout will be presented to District staff to review. Kiosk location and dates are in the process of being scheduled. A workshop agenda will be developed at the June 25 meeting, as well as a list of the invitees. The 2007 Watershed Leadership workshop is scheduled for the afternoon of September 6, at Shelby Botanical Gardens. An evening reception will follow.

Project Type	Cooperative Funding
AOR(s)	Flood Protection
Basin(s)	Peace River
Cooperator(s)	City of Sebring
Project Manager	ZAJAC, CHRIS
Task Manager(s)	FRIES, GEORGE
Status	Ongoing

Description

This project involves performing the elements required to establish a stormwater utility. A Stormwater Utility Study provides a method to evaluate the condition of the existing stormwater infrastructure, develop preliminary levels of service, estimate project costs for improving or maintaining system infrastructure, and prepare a billing database to equitably distribute costs. The study includes four major elements: Inventory, Evaluation, Ordinance Preparation and Adoption, and Billing. The Inventory element provides the foundation for the study, and includes a literature review; an inventory of existing stormwater management infrastructure; identification of flood prone areas; and an assessment of maintenance needs. The Evaluation element involves an assessment of infrastructure requirements based upon existing and future land use and level of service (LOS), and development of 5 and 10 year cost projections for system maintenance and improvements. The Ordinance Preparation and Adoption element includes a review of existing city ordinances, and the preparation of all ordinance documents needed to implement a dedicated funding source. The Billing element includes development of a database and billing algorithm, performance of a mock and first billing, and an evaluation of the effectiveness of the mock and first billings.

Benefits

If established, a stormwater utility will provide a dedicated funding source for stormwater management in the City of Sebring. The City service area covers approximately 12 square miles.

Costs

The original FY2005 total project cost was \$40,000. The Peace River Basin Board budgeted \$30,000 in its FY2005 budget for this project. The cost estimate provided by the City's consultant is \$7,455 over the currently contracted amount between the City and the District (\$40,000). At the City's request, the Peace River Basin Board has funded an additional \$5,592 in its FY2007 budget to cover 75% of the additional cost to complete the project. The City will provide \$1,863 (25%) of the additional cost to complete the project. The cooperator has requested funding consideration based on the Rural Economic Development Initiative (REDI), as reflected in the funding distribution. The FY2008 District budget is for staff salary. The District funding amounts in the table include staff salaries, travel and central garage charges.

Additional Information

A cooperative funding expenditure agreement with the City has been developed to complete the Stormwater Utility Study. The City will manage the project. The District project manager must approve any agreements to accomplish project tasks. With FY2005 funding, work on the Inventory, Evaluation, Ordinance Preparation and Adoption, and Billing elements will be completed. Issues in the watershed include aging or undersized infrastructure and water quality issues because most stormwater discharges to Lake Jackson.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	33,442	8,502	1,220	0	43,164
Project Funds Not Budgeted by the District					
City of Sebring	11,863	0	0	0	11,863
			Total		\$55,027

Critical Project Milestones

1. Contract Development & Execution

	Projected	Amended	Actual
Draft Agreement to Contract Administration	10/30/04		1/11/05
Agreement returned from Contract Admin.	12/30/04		2/2/05
Agreement Approved by City	2/15/05		2/15/05
Contract Executed	2/20/05		3/1/05
Notice to Proceed given to City	2/22/05		3/1/05
First Amendment-No Cost Time Extension	6/26/06		6/26/06
Second Amendment-Add Additional Funds/Time Extension/New Project Schedule	2/1/07		4/6/07

2. Critical Project Milestones

	Projected	Amended	Actual
Task 1 Perform literature review	6/1/05	3/31/07	3/31/07
Task 2 Prepare inventory of stormwater management infrastructure	7/1/05	3/31/07	3/31/07

Task 3 Perform preliminary field surveys, as necessary	7/1/05	3/31/07	3/31/07
Task 4 Document flood prone areas & perform maint. evaluation	8/1/05	3/31/07	3/31/07
Task 5 Prepare work plan/needs assessment	9/1/05	3/31/07	3/31/07
Task 6 Develop 5 & 10 year cost projections	10/1/05	3/31/07	3/31/07
Task 7 Prepare documentation for establishment of utility	10/1/05	5/31/07	5/31/07
Task 8 Evaluate local ordinances	11/1/05	5/31/07	
Task 9 Prepare ordinance modifications/documents as necessary	11/1/05	5/31/07	
Task 10 Identify billing method & select billing database	12/1/05	6/30/07	
Task 11 Conduct mock billing and evaluate database performance	12/1/05	8/31/07	
Task 12 Perform first billing	12/1/05	8/31/07	
Task 13 Perform evaluation & prepare report on first billing effort	1/1/06	8/31/07	
Task 14 Final Report	3/1/06	8/31/07	

Status As Of: July 02, 2007

The final RFP that was advertised and proof of publication has been provided by the cooperator. The City has chosen BCI Engineers as its consultant and has provided BCI's response to the RFP. The proposed cost estimate provided by BCI is \$7,455 over the contracted amount between the District and the City (\$40,000). After discussing the project with representatives for BCI it was determined that the cost estimate provided by BCI could not be further reduced and still achieve the goals of the project. At the City's request, District staff has included in its FY2007 budget, \$5,592 (75%-REDI Funding) of the additional cost to complete the project. The Peace River Basin Board has approved the additional funds which are now available. The City has provided the District project manager a copy of the executed contract between the City and BCI. BCI was given a notice to proceed by the City on June 23, 2006. The contract between the City and the District has been amended to provide a no-cost time extension of one year to complete the project. The City was sent their copy of the executed First Amendment on June 27, 2006. A Second Amendment to include the additional funds that were requested, extend the contract expiration date, and amend the project schedule was executed on April 6, 2007. The cooperator was sent their copy of the executed amendment on April 10, 2007.

Project Type	Cooperative Funding
AOR(s)	Flood Protection
Basin(s)	Peace River
Cooperator(s)	Avon Park
Project Manager	ZAJAC, CHRIS
Task Manager(s)	FRIES, GEORGE
Status	Ongoing

Description

This project involves performing the elements required to establish a stormwater utility. A Stormwater Utility Study provides a method to evaluate the condition of the existing stormwater infrastructure, develop preliminary levels of service, estimate project costs for improving or maintaining system infrastructure, and prepare a billing database to equitably distribute costs. The study includes four major elements: Inventory, Evaluation, Ordinance Preparation and Adoption, and Billing. The Inventory element provides the foundation for the study, and includes a literature review; an inventory of existing stormwater management infrastructure; identification of flood prone areas; and an assessment of maintenance needs. The Evaluation element involves an assessment of infrastructure requirements based upon existing and future land use and level of service (LOS), and development of 5 and 10 year cost projections for system maintenance and improvements. The Ordinance Preparation and Adoption element includes a review of existing city ordinances, and the preparation of all ordinance documents needed to implement a dedicated funding source. The Billing element includes development of a database and billing algorithm, performance of a mock and first billing, and an evaluation of the effectiveness of the mock and first billings.

Benefits

If established, a stormwater utility will provide a dedicated funding source for stormwater management in the City of Avon Park. The City service area covers approximately 6 square miles.

Costs

The total project cost is \$36,000, with the District's share being \$27,000. The Peace River Basin Board has budgeted \$27,000 in its FY2005 budget. The City is funding \$9,000 of the total project cost based on the Rural Economic Development Initiative (REDI). Funds in FY2007 and FY2008 will be used for salary, travel and central garage charges.

Additional Information

A cooperative funding expenditure agreement with the City has been developed to complete the Stormwater Utility Study. The City will manage the project. The District project manager must approve any agreements to accomplish project tasks. With FY2005 funding, work on the Inventory, Evaluation, Ordinance Preparation and Adoption, and Billing elements will be completed. Issues in the watershed include aging or undersized infrastructure, water quality degradation, and erosion problems. There are six lakes within the City all of which receive direct stormwater discharges. The lakes within Avon Park are some of the most unique within the state due to their great depths, connection to aquifer, and excellent water clarity. However, the aging stormwater drainage system in place today was originally designed to convey stormwater runoff directly into the lakes and gave little to no consideration to protecting the resources of the town's lakes. Information collected by District staff during the Ridge Lakes Screening (B102) project in 2002 revealed that at least 20 discharges enter the lakes in Avon Park. Lake Verona, which is the only lake with a public beach, has a total of 10 stormwater inflows. Lake Isis and Lake Anoka receive runoff from Highway 27. Improving stormwater treatment in the City will be important for enhancing and protecting lake water quality.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	31,571	3,137	1,328	0	36,036
Project Funds Not Budgeted by the District					
City of Avon Park	9,000	0	0	0	9,000
			Total		\$45,036

Critical Project Milestones**1. Contract Development & Execution**

	Projected	Amended	Actual
Draft Agreement to Contract Administration	10/30/04		12/30/04
Agreement returned from Contract Admin.	12/30/04		1/13/05
Agreement Approved by City	2/15/05		1/28/05
Contract Executed	2/20/05		2/10/05
Notice to Proceed given to City	2/22/05		2/10/05
First Amendment-To Cost Time Extension	6/2/06		6/2/06
Second Amendment-No Cost Time Extension/New Project Schedule	2/1/07		3/13/07

2. Critical Project Milestones

Task 1 Perform literature review	5/10/05	3/31/07	3/31/07
Task 2 Prepare inventory of stormwater management infrastructure	6/10/05	3/31/07	3/31/07
Task 3 Perform preliminary field surveys, as necessary	6/10/05	3/31/07	3/31/07
Task 4 Document flood prone areas & perform maint. evaluation	7/10/05	3/31/07	3/31/07
Task 5 Prepare work plan/needs assessment	8/10/05	3/31/07	3/31/07
Task 6 Develop 5 & 10 year cost projections	9/10/05	3/31/07	3/31/07
Task 7 Prepare documentation for establishment of utility	9/10/05	5/31/07	5/31/07
Task 8 Evaluate local ordinances	10/10/05	5/31/07	
Task 9 Prepare ordinance modifications/documents as necessary	10/10/05	5/31/07	
Task 10 Identify billing method & select billing database	11/10/05	6/30/07	
Task 11 Conduct mock billing and evaluate database performance	11/10/05	8/31/07	
Task 12 Perform first billing	11/10/05	8/31/07	
Task 13 Perform evaluation & prepare report on first billing effort	12/10/05	8/31/07	
Task 14 Final Report	2/10/06	8/31/07	

Status As Of: May 16, 2007

The City has provided proof of publication and the final RFP that was advertised for the project. The City has chosen BCI Engineers as its consultant and has provided BCI's response to the RFP. The proposed cost estimate provided by BCI is \$1,480 over the contracted amount between the District and the City (\$36,000). After discussing the project with representatives for BCI it was determined that the cost estimate provided by BCI could not be further reduced and still achieve the goals of the project. The City has agreed to cover the additional amount and proceed with the project. The City has provided the District project manager a copy of the executed contract between the City and BCI. The contractor (BCI) was given notice to proceed on June 23, 2006 by the City. The contract between the City and the District has been amended to provide a no-cost time extension of one year to complete the project. The City's copy of the executed First Amendment was sent June 7, 2006. A Second Amendment to extend the contract period and amend the project schedule was executed on March 13, 2007. The cooperator was sent their copy of the amendment on March 14, 2007.

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) Highlands County
Project Manager ARNOLD, DAVE

Task Manager(s) Status

Description

This is a multi-year funded project to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the Carter Creek Watershed. The watershed covers an area of approximately 32 square miles in Highlands County, including nine lakes and more than 2,100 acres of surface water. Trends toward lake level declines and degraded water quality are priority issues within this watershed. The project will address these and other issues to improve water quality, natural systems, and flood protection. FY2005 and 2007 funding is budgeted to complete the Topographic Information, Watershed Evaluation, and Watershed Management Plan elements. Topographic information includes the acquisition of data and development of the terrain features in the Geodatabase to be used in the Watershed Evaluation. The Watershed Evaluation includes collection of existing data, GIS processing of the terrain features to establish catchments and connectivity, field reconnaissance, refinement of the terrain features and development of the hydraulic element point features. The Watershed Management Plan element includes: development of watershed parameters for a specific use, GIS processing, computer modeling, floodplain and water quality analysis, surface water resource assessment, establishment of LOS, BMP alternative analysis. The Cooperator submitted the project for REDI consideration.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain and water quality management.

Costs

The total budget for this multi-year project is \$650,000, funded in FY2005 and FY2007. Under the REDI project funding split the Peace River Basin's 75% share totals \$487,500, and Highland County's 25% share totals \$162,500. The FY2007 budget is \$385,000, of which \$96,250 is revenue from the County and \$288,750 is the Basin's contribution. When each element is completed the project budget may require refinement based on the information gathered.

Additional Information

A WMP includes five major elements: Topographic Information, Watershed Evaluation, Watershed Management Plan, Implementation of Best Management Practices, and Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies. Funding will be used to complete the Topographic Information, Watershed Evaluation, and Watershed Management Plan elements. A cooperative funding revenue agreement with Highlands County has been developed as a multi-year funded project contingent on the approval of future funding to complete the WMP elements through the Watershed Management Plan. This is a multi-year project that requires a cooperative funding request each fiscal year until completed. The District is managing the project and entering into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models. Cooperator submitted project for REDI consideration.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	208,120	295,061	10,694	0	513,875
District Budgeted - Outside Revenue					
Highlands Co - Carter Ck WMP (L314)	66,250	96,250	0	0	162,500
			Total		\$676,375

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
Draft Agreement to Management Services	1/1/06		1/1/06
Draft Agreement returned from Management Services	4/1/06		2/1/06

Consultant Contract Executed	6/1/06	7/1/06
Watershed Evaluation Start	9/1/06	8/1/06
Watershed Evaluation Complete	11/1/07	
Watershed Plan Start	1/1/08	
Watershed Plan Complete	4/1/09	
Contract Termination	10/1/09	

Status As Of: June 22, 2007

Status History: A cooperative funding agreement, consulting services agreement, and contract for LiDAR mapping have been executed. Notice to proceed with watershed consulting services was effective the date of the project kick-off meeting, which was held on August 29, 2006. Current Status: LiDAR mapping is complete/accepted. The consultant has completed compilation of existing information, field reconnaissance, and DTM development tasks, and is working on the watershed parameterization task.

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) Polk County Natural Resources, Frostproof
Project Manager ARNOLD, DAVE

Task Manager(s) Status

Description

This is a multi-year funded cooperative project with Polk County and the City of Frostproof for Implementation of Best Management Practices element of the District's Watershed Management Program (WMP) for Lake Clinch, located in Polk County and the City of Frostproof. This lake is the second in a chain of lakes (Crooked, Clinch, and Reedy), which drains to the Kissimmee River watershed. This project has two aspects: (1) emergency repairs to the conveyance system between Lakes Clinch and Reedy; (2) replacement of this conveyance system, which will remove restrictions in the Lake Clinch outfall to Reedy Lake caused by conversion of open channels to closed pipes. The two efforts include: (1) Emergency repairs - Funding totals \$75,000 for design and permitting consulting services for emergency repairs made over the summer of 2005 by Polk County, with cost split three ways between Polk County, the City of Frostproof, and the District (\$25,000 each). The District is reimbursing the County for its share by purchase order. Polk County's cost for making the repairs is approximately \$400,000. (2) Lake Clinch Outfall Replacement - At its February 2006 Board meeting, the Peace River Basin Board voted to re-allocate \$960,000 of their Water Supply and Resource Development Reserves (H100) for Phase I of the Lake Clinch outfall replacement. Phase II funding in FY2007 is to complete the project. Based on a cooperative agreement, the replacement is being funded on a 50/50 cost sharing basis between the District and Polk County, at a total budget of \$3,878,000. A portion of the Phase II funding will be offset by an initiative from Senator Alexander's office, which has procured state funding totalling \$1,000,000 for this project (in conjunction with the City of Frostproof). This necessitates Polk County and the District each funding \$479,000 in FY2007 to equal the total project budget.

Benefits

This project addresses short-term needs by implementing capital improvements to provide flood protection and lake level management benefits for Lake Clinch, including reducing the probability of damages to the approximate 50 homes on Lake Clinch that flooded in the summer of 2005. It also assists with longer-term goals by removing a key drainage restriction, which opens planning strategies for better management of the entire lake chain and its conveyance system.

Costs

The total budgeted amount is \$3,953,000 over FY2005-2007. The Peace River Basin's contribution totals \$1,464,000 with \$25,000 allocated to emergency repairs, and \$1,439,000 allocated to the Lake Clinch outfall replacement. In addition to providing funds for design and permitting, Polk County is providing \$1,464,000. As noted in the project description, \$1,000,000 of the project budget is supplied by the State Legislature. Depending on the outcome of construction bidding and actual construction costs for the outfall replacement, the project budget may require refinement. This project involves construction and easement acquisition through an urban area, where construction scope-of-work, and therefore cost, is subject to revision until final agreements are reached with property owners.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of BMPs, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management initiative strategies. The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. Due to the flooding problems experienced on Lake Clinch over the summer of 2005, some BMPs have been implemented via the emergency repairs and planned via the Lake Clinch Outfall Replacement (FY2006-2007). FY2007 funding is also proposed for a related project (L353) to develop a Watershed Management Plan for the lakes and their connecting conveyance systems. A cooperative funding agreement with the County and City has been developed as a multi-year funded project contingent on the approval of future funding to complete the Implementation of BMPs. The County is managing the project, where the District project manager must approve any agreements to accomplish project tasks.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	25,000	489,002	3,262	0	517,264

Project Funds Not Budgeted by the District

Frostproof	25,000	0	0	0	25,000
Polk County	985,000	479,000	0	0	1,464,000
State	0	1,000,000	0	0	1,000,000
			Total		\$3,006,264

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
Emergency repairs commence			8/1/05
Emergency repairs complete			10/1/05
BMP design/permitting commence (proposed new outfall)			1/1/06
Consultant Contract Executed			8/1/05
Notice to Proceed			8/1/05
BMP design/permitting complete (new outfall)	7/1/06		4/1/07
BMP construction start	3/1/07		4/23/07
BMP construction complete (new outfall)	5/1/08		
Project Close-out	8/1/08		

Status As Of: June 22, 2007

Status History: Construction of the emergency repairs to the Lake Clinch outfall is complete, consisting of installing a 48 inch plastic pipe to replace undersized piping at several locations. The City of Frostproof, Polk County, District, and Senator Alexander's office have coordinated to secure funding for construction of the new outfall. A preliminary cost estimate indicates a total design and construction cost of \$3,878,000 for this project, which will construct a water control structure on Lake Clinch and a conveyance system between lakes Clinch and Reedy. Funding, on a 50/50 cost sharing basis between the County and District, has been approved through an out-of-cycle request to the Peace River Basin Board at its February 2006 meeting, and the FY 2007 budget. A portion of the County and District funding will be offset by the State funding procured through Senator Alexander's office. This outside funding will be allocated equally to County and District contributions. Chastain Skillman, the consultant for the Lake Clinch outfall replacement has completed construction plans and bid documents. Polk County has finalized acquisition of construction and maintenance easements and ERP permitting for the project, issued an RFB, selected a construction contractor, and given them notice to proceed effective 04/23/07 with completion scheduled by 01/28/08. Current Status: Project construction is continuing with (1) installation of sea walls along the lower outfall between the railroad and Reedy Lake (2) installation of 72-inch pipe along the upper outfall from the railroad to Lake Clinch.

Polk WMPlan Lakes Crooked, Clinch, and Reedy

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) Polk County Natural Resources
Project Manager ARNOLD, DAVE
Task Manager(s)
Status Ongoing

Description

This is a cooperative project with the City of Frostproof and Polk County to perform 1) Digital Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the lakes Crooked, Clinch, and Reedy watershed. This watershed covers an area of approximately 65 square miles within Polk County, including the City of Frostproof. Issues within the watersheds include flood damage, rapid growth, water quality issues, and discharges to Outstanding Florida Waters. FY2007 funding is to complete the project. This project focuses on lake level management and enhancement/restoration of the lakes Crooked, Clinch, and Reedy conveyance system. The project includes a BMP plan to provide a balanced water control structure/conveyance system for these lakes that is consistent with the new Lake Clinch outfall (see project # L352).

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management through the Total Maximum Daily Loads (TMDL) process for their National Pollution Discharge Elimination System (NPDES) permit requirements.

Costs

The total budget for this project is \$500,000, of which the District's share is \$250,000. The FY 2007 budget totals \$500,000, of which \$250,000 is revenue from Polk County, and \$250,000 is the Peace River Basin's contribution. The District will manage the project and enter into purchase orders and agreements to accomplish project tasks. When each element is completed the project budget may require refinement based on the information gathered. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

Additional Information

A WMP includes five major elements: Topographic Information, Watershed Evaluation, Watershed Management Plan, Implementation of Best Management Practices, and Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) management strategies. A cooperative funding revenue agreement with Polk County will be developed contingent on approval of the FY2007 budget to complete the WMP elements through the Watershed Management Plan. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	250,183	1,029	0	251,212
District Budgeted - Outside Revenue					
Frostproof - Crooked/Clinch/Reedy RDS (L353)	0	250,000	0	0	250,000
			Total		\$501,212

Critical Project Milestones

1. Critical Project Milestones

	Projected	Amended	Actual
Draft Agreement to Management Services	1/1/07		9/1/06
Draft Agreement Returned from Management Services	2/1/07		9/1/06
Cooperator Contract Executed	4/1/07		
Consultant Contract Executed	6/1/07		
Notice to Proceed to Consultant	7/1/07		
Watershed Evaluation Commence	1/1/08		
Watershed Evaluation Completion	9/1/08		
Watershed Plan Commence	9/1/08		

Polk WMPlan Lakes Crooked, Clinch, and Reedy

Watershed Plan Completion (project complete)	1/1/09
Project Close-out	6/1/09

Status As Of: June 22, 2007

Based on inclusion of the project in the FY2007 budget, the District developed a cooperative funding agreement and sent it to Polk County for review and signature. The County has been holding the agreement pending the outcome of the Lake Clinch Outfall Replacement (project L352) final design and construction bidding. This was done to assure that the L353 watershed plan has accurate information to account for the new Lake Clinch outfall, and determine whether budgeting for the L352 project is sufficient. Now that L352 construction plans are finalized and bids are within budget, the County has decided to move ahead with review/signature of the L353 agreement. County staff is planning to present the agreement to the County Commission for approval at their late-July or mid-August meeting. Once the agreement is fully executed, work orders/notice-to-proceed will be issued.

Polk County Utilities Northeast Regional Reclaimed Storage Expansion (NERRSE)

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality
Basin(s) Peace River
Cooperator(s) Polk County, Polk County Utilities
Project Manager NOURANI, MEHRSHAD
Task Manager(s)
Status Ongoing/No FY\$

Description

This project consists of the permitting and construction of 2 additional 5-million gallon reclaimed water storage tanks and required appurtenances at the County's Northeast Regional Waste Water Treatment Facility (NERWWTF). Additional storage is essential to expanding reuse in the service area of the NERWWTF. 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 storage capacity of reclaimed water from the NERWWTF from 3.0 MG to 10 MG. All new development along the existing and planned transmission system is required to install internal reclaimed water distribution systems and all users are individually metered.

Benefits

This project provides for the diurnal reclaimed water supply-demand imbalance and the lack of sufficient reclaimed water storage by providing additional facilities to store 9 million gallons of water during low demand hours, and then use this stored reclaimed water to supplement the system during high demand hours.

Costs

The total project cost is \$2,794,912 and the District's share is expected to be \$1,871,473. \$134,704 will be provided by the Water Protection Sustainability Trust Fund Program. The Peace River Basin Board is requested to fund \$785,604 in FY2006, and the remaining \$1,088,825 is expected to be budgeted in future years.

Additional Information

This project will improve the level of service to dissatisfied customers (reliability) who may otherwise be tempted to fulfill their irrigation needs with potable water. The storage project is necessary because the PCU reclaimed water system was originally designed for effluent disposal and thus lacked provisions to allow it to operate efficiently in its function as a reuse distribution system. Metered consumption from the NRWWTF currently averages 0.764 MGD with an estimated offset of 50%.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	785,604	3,131	3,268	0	792,003
District Budgeted - Outside Revenue					
Water Protection & Sust T.F. (Alternative Wtr)	134,704	0	0	0	134,704
			Total		\$926,707

Critical Project Milestones	Projected	Amended	Actual
Signage Erected	1/31/06		
Draft Agreement to Contract Administration	2/9/06		2/15/06
Draft Agreement returned from Contract Administration	5/31/06		5/31/06
Contract sent to Cooperator for signature	6/5/06		6/5/06
Contract Executed	8/14/06		8/14/06
Notice to Proceed	8/14/06		8/14/06
Design Commence	9/1/06		9/12/06
Design Completed	1/31/07		5/31/07
Construction Commence	6/30/07		
Construction Completed	12/31/07		
Contract Termination	12/31/07		

Status As Of: June 26, 2007

Based on recent reports from the PCU, both tanks now contain at least 3.0 mg of plant effluent for required 30-day settling period. The settling period began on April 16, 1997 and after 30 days, the contractor will reassess the tanks and the amount of settling that has occurred. Once these results are confirmed to be appropriate, the contractor will then

reconnect the piping. The effluent transfer pump has been installed and is currently being monitored for proper performance.

Lk Hollingsworth Westside SW Treatment

Project Type	Cooperative Funding
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	City of Lakeland
Project Manager	ZAJAC, CHRIS
Task Manager(s)	
Status	Ongoing

Description

This project entails the construction of wetland strands for the stormwater treatment of four sub-basins totalling 217 acres on the west side of Lake Hollingsworth, Lakeland. The project involves treating stormwater runoff from thirteen (13) outfalls to Lake Hollingsworth. The requested funds for this project will be used for construction only as the City has funded the design and permitting of this project.

Benefits

This project will provide improved treatment of stormwater from a 217 acre sub-basin as well as provide habitat for native wildlife along the lake's edge. This project, in conjunction with other ongoing and completed capital improvement projects, will have a positive cumulative impact on the long-term water quality of Lake Hollingsworth and downstream receiving waterbodies. Funds in FY2008 will be used for salary, travel and central garage charges.

Costs

The total project cost for construction of this project is \$378,432, with the District's share being \$189,216. The Peace River Basin Board budgeted \$189,216 for the project in its FY2006 budget and the City budgeted \$189,216. The District funding amounts shown in the table include staff salaries, travel and central garage charges.

Additional Information

Lake Hollingsworth is a headwater lake of the Peace River. Hollingsworth discharges into Banana Lake, Lake Hancock and ultimately the Peace River. Lake Hollingsworth is listed as an impaired waterbody by the FDEP for five parameters including nutrients. Land use within the project area has been classified as 88% residential, 6% commercial, and 6% recreational or open space. The proposed project site consists of lakefront, grassed area properties, some of which are owned by the City of Lakeland and some privately owned, with the City being responsible for the maintenance of the properties. The City plans to obtain drainage easements on the privately owned parcels. Previous studies have demonstrated that stormwater runoff contributes a significant nutrient and sediment load to the lake. The recently completed conceptual plan established that wet ponds provided the lowest cost per pound TSS removal from the four sub-basins. To retain recreational uses of the lakefront private property while providing stormwater treatment, the City proposes to construct a series of linear wetland strands adjacent to the lakeshore, rather than follow a typical square or rectangular design. Each strand will be planted in its entirety with native emergent wetland vegetation to enhance stormwater treatment. Each of the thirteen discharge pipes will be diverted into the wetland strand system from upstream of the existing outfall location. Each strand will be cut to an elevation equal to or exceeding the pipe invert elevation, so that the hydraulic grade line is maintained. Control water depths within the strands will be maintained at 2 feet, with a maximum depth of 3 feet. The point of discharge will be relocated to the opposite end of the newly constructed strand to ensure that stormwater receives the maximum detention time and contact with wetland plants and soils. Groundwater seepage is adequate to keep the strands hydrated during dry periods. The maximum treatment volume is estimated at 6.5 acre-feet with an approximate 75% TSS removal, based on mass loading calculations using average annual run-off volumes.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	197,737	3,148	2,057	0	202,942
Project Funds Not Budgeted by the District					
City of Lakeland	189,216	0	0	0	189,216
			Total		\$392,158

Critical Project Milestones

1. Contract Development & Execution

	Projected	Amended	Actual
Contract Executed	10/1/05		2/28/06
Notice to Proceed	10/17/05		3/2/06
First Amendment-No Cost Time Extension	8/14/06		8/14/06

2. Critical Project Milestones

Select Contractor	3/31/07		
Begin Construction	4/30/07		
Construction Complete	11/30/07		

Lk Hollingsworth Westside SW Treatment

Contract Close Out

12/31/07

Status As Of: May 16, 2007

The contract was executed on February 28, 2006 by the District's Executive Director. The Notice to Proceed letter was sent to the cooperator on March 2, 2006. A Peace River Basin Board Recap was prepared on March 2, 2006 and included in their April meeting. On May 30, 2006 the District's project manager received a letter from the cooperator requesting a no-cost time extension of one year to complete the project. The cooperator indicated delays in acquiring lands and the appropriate permits to complete the project. The cooperator has provided the District's project manager a copy of the permit and approved construction drawings. The amended contract revises the project schedule so that the timelines do not begin until the necessary lands are acquired by the City to complete the project. The City's copy of the executed First Amendment was sent on August 16, 2006. To date the City has hosted two meetings with affected property owners while attempting to acquire the necessary lands to construct the project.

Lake Morton Shoreline Restoration

Project Type	Cooperative Funding
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	City of Lakeland
Project Manager	ZAJAC, CHRIS
Task Manager(s)	
Status	Completed

Description

This project involved the construction of a shoreline stabilization system around selected portions of the lakeshore of Lake Morton, Lakeland, Florida. Lake Morton is located in downtown Lakeland in a highly urbanized watershed and has been experiencing chronic shoreline erosion for many years. The shoreline stabilization system has been constructed to arrest the chronic erosion while enhancing water quality and wildlife habitat. The shoreline stabilization system includes a combination of different stabilization methods and shore protection structures, including riprap, re-grading of the shoreline (using in-lake eroded sediments where feasible), and the planting of shoreline and near shore aquatic vegetation. These additions should prevent further erosion and stabilize existing and newly graded shoreline areas. The funding requested for this project was used for construction only as the City has funded the design and permitting for this project.

Benefits

The reduction or elimination of shoreline erosion will benefit water quality in Lake Morton and in receiving waters by reducing the chronic discharge of solids and nutrients to the lake. The project will also result in the establishment of a functional littoral zone which will benefit fish and wildlife resources.

Costs

The total estimated cost for construction of this project was \$136,332, with the District's share being \$68,166. The Peace River Basin Board has budgeted \$68,166 for this project in its FY2006 budget.

Additional Information

Lake Morton is a 40-acre, seepage lake with a shoreline length of approximately one mile. Both water quality and wildlife habitat are considered to be poor. Lake Morton is a headwater lake in the Peace River system, as it discharges into Lake Hollingsworth. A recent study of aerial photographs of the lake indicate that an average of eighteen linear feet of uplands have been lost around the lake to erosion over the past twenty years. The cause of the erosion is associated with the general lack of shoreline vegetation and the heavy concentration of waterfowl that traverse the bank and uproot any existing vegetation. In the past, this problem has been addressed by bringing in fill material and rebuilding the eroded areas. This approach has provided only temporary relief and has long term adverse impacts on the lake. The project's improvements will ultimately increase the ecological diversity and aesthetic value of the shoreline as well as enhance the water quality of Lake Morton. The City has developed a master plan for Lake Morton that involves improvements other than those listed in this project that the City will be funding without assistance from the District.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	76,687	3,148	0	0	79,835
Project Funds Not Budgeted by the District					
City of Lakeland	68,166	0	0	0	68,166
			Total		\$148,001

Critical Project Milestones

1. Contract Development & Execution

	Projected	Amended	Actual
Draft Agreement to Cooperator	10/31/05		9/22/05
Final Agreement to Cooperator for signature	1/1/06		1/6/06
Contract Executed	2/10/06		2/28/06
Notice to Proceed	2/17/06		3/2/06

2. Critical Project Milestones

	Projected	Amended	Actual
Select Contractor	3/31/06		3/29/06
Begin Construction	4/30/06		4/30/06
Construction Complete	11/30/06		9/30/06
Contract Close Out	12/31/06		3/12/07

Status As Of: May 16, 2007

The contract between the City of Lakeland and the District was executed by the District's Executive Director on February 28, 2006. The Notice to Proceed letter was sent to the cooperator on March 2, 2006. A Peace River Basin Board recap

Lake Morton Shoreline Restoration

was prepared on March 2, 2006 and included in their April meeting. After reviewing all the submittals for the RFP that was advertised for this project the City determined that the project could not be contracted out in its entirety and remain within budget. The City has decided to perform some of the tasks as In-Kind services that will not be reimbursed by the District. The project budget has been revised to reflect internal transfers between line items and will result in no changes to the District's contribution. A letter describing the revised budget was sent to the City on June 13, 2006. The District's project manager received a copy of the permit and approved construction drawings on June 14, 2006. The cooperator has indicated that construction was completed on September 30, 2006. The District project manager received the final invoice for reimbursement on January 11, 2007. Upon review of the paid invoices the District project manager was unable to link each invoice to the appropriate task and has requested clarification from the cooperator in processing the final invoice. This request for clarification was sent on January 12, 2007. The cooperator provided the appropriate documentation for reimbursement on March 9, 2007. The Peace River Basin Board project completion recap was prepared on March 12, 2007 and will be included in their June meeting.

Project Type	Cooperative Funding
AOR(s)	Water Supply, Flood Protection, Water Quality
Basin(s)	Peace River
Cooperator(s)	Winter Haven
Project Manager	ANTOINE, TAMMY
Task Manager(s)	
Status	Ongoing

Description

This project is for a reuse master plan that explores the feasibility of optimizing the reuse system associated with Plant II and expanding Plant III to public access reuse standards, and to determine the overall best resource use. The proposed 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 use 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.

Benefits

Upon completion of this project, the city will have a reuse master plan.

Costs

The total cost of this project is estimated at \$100,000 and \$50,000 was approved by Peace River Basin as part of its FY2006 budget.

Additional Information

The City of Winter Haven has two wastewater treatment plants - Plant II and Plant III, both of which are located within the Southern Water Use Caution Area. Plant II is located in the northern part of Winter Haven and currently generates 1.0 MGD of reclaimed water used for irrigating golf courses, cemeteries, residential developments and numerous parks. This system has problems meeting demand during dry weather conditions. Plant III is located south of Winter Haven and currently generates approximately 4.0 MGD of reclaimed water, all of which is discharged to the Peace Creek or used to irrigate hay fields owned by the city. Until last year, the city had been negotiating the use of the reclaimed water with a power plant company.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	51,736	2,822	0	0	54,558
Project Funds Not Budgeted by the District					
City of Winter Haven	50,000	0	0	0	50,000
			Total		\$104,558

Critical Project Milestones

	Projected	Amended	Actual
Draft Project Agreement	10/31/05		1/20/06
Execute Project Agreement	1/31/06		3/24/06
Begin Master Plan	4/1/06		5/1/06
Complete Master Plan	4/30/07		
Project Close-out	12/31/07		

Status As Of: June 12, 2007

A Cooperative Funding Agreement was executed on March 24, 2006. Brown & Caldwell submitted a draft Reclaimed Water Reuse Master Plan on December 7, 2006. Staff has provided comments on the draft master plan and is currently awaiting a final copy. To date, \$50,000 has been encumbered, of which \$0 has been reimbursed.

Charlotte County Golf Course Reuse Storage

Project Type	Cooperative Funding
AOR(s)	Water Supply, Water Quality
Basin(s)	Peace River
Cooperator(s)	Charlotte County Utilities
Project Manager	ANTOINE, TAMMY
Task Manager(s)	
Status	Ongoing

Description

This alternative water supply project includes the 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. This project provides diurnal storage to allow the 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.

Benefits

The remaining project benefit includes 0.516 mgd of reuse flow to two golf courses, offsetting 0.386 mgd Intermediate aquifer withdrawal.

Costs

The total project cost of the two reuse ponds, including design, permitting, construction and inspection is estimated at \$1,308,413. The county already budgeted \$600,599 by Charlotte County in FY2005. Of the remaining \$707,814, 85 percent (\$601,642) is estimated to be for construction. The Peace River Basin has encumbered \$414,071 in FY2006, of which \$120,328 is expected to be provided by the Water Protection Sustainability Program. The county's remaining share will be \$293,743. The cost in terms of benefit is \$.44/1,000 gallons, amortized over 30 years at eight percent interest.

Additional Information

Both of the golf courses associated with the FY2006 proposal represent new reuse customers to the county's system and will be connected to existing 6-inch diameter reuse transmission mains as part of this project. The proposed storage pond and associated appurtenances at the Deep Creek Golf Course will be constructed on vacant lands located on a county easement adjacent to the course. The pond located at the Deep Creek Golf Course will have a capacity of 2.12 million gallons and the reuse pond for the King's Island Golf Club includes approximately 1.00 million gallons of diurnal storage for golf course irrigation and will be located on on-site vacant lands. Golf-course-related benefits include providing 0.516 mgd (.258 mgd per course) of reuse flow and offsetting 0.386 mgd (.193 mgd per course) of Intermediate aquifer withdrawal.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	295,479	2,822	2,913	0	301,214
District Budgeted - Outside Revenue					
Water Protection & Sust T.F. (Alternative Wtr)	120,328	0	0	0	120,328
Project Funds Not Budgeted by the District					
Charlotte County	894,342	0	0	0	894,342
			Total		\$1,315,884

Critical Project Milestones	Projected	Amended	Actual
Draft Project Agreement	10/31/05		11/22/05
Execute Project Agreement	1/31/06		7/24/06
Begin Design	5/1/06	2/15/07	5/22/07
Complete Design	5/31/07	10/31/07	
Begin Construction	6/30/07	2/15/08	
Complete Construction	7/31/08	11/30/08	
Project Close-out	1/31/09		

Status As Of: June 12, 2007

A Cooperative Funding Agreement was executed on July 24, 2006, the agreement has been backdated to be effective October 1, 2005. The county has submitted a modified scope of work and an amendment was executed 03/07/07 (associated with the cancellation of cooperative funding project K892). The amendment was approved at the February 16th Peace River Basin Board meeting for approval. Charlotte County has selected Stantec as the design engineer and notice to proceed was given on May 22, 2007. To date, \$414,071 has been encumbered, of which \$0 has been

reimbursed.

Project Type	Cooperative Funding
AOR(s)	Flood Protection, Water Quality
Basin(s)	Peace River
Cooperator(s)	Charlotte County
Project Manager	FRIES, GEORGE
Task Manager(s)	
Status	Ongoing

Description

This is a multi-year funded project to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program for the portion of Charlotte County known as Charlotte Harbor Redevelopment Area. The proposed study area is approximately 2.5 square miles and is located in western Charlotte County. The goal of the project is to create a functional, viable, detailed planning tool with feasible and permittable drainage alternatives. With FY2006 funding work on the Topographic Information and Watershed Evaluation will begin and should be completed. With FY2007 funding the work on the Watershed Management Plan elements will begin and should be completed. Work on the Watershed Management Plan element will include the following tasks: computer modeling, floodplain analysis, surface water resource assessment (water quality), establishment of LOS, and BMP alternative analysis.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) with their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies and 2) provides a geodatabase and projected results from watershed model simulations for floodplain management and water quality management.

Costs

Funding for this project was provided in the Peace River Basin Board budgets of FY2006 (\$125,000) and FY2007 (\$125,000) for a total funding commitment of \$250,000. The total budgeted amount for this project is \$500,000 of which the District's share is \$250,000. When each element is completed the project budget and scope may require refinement based on the information gathered. The District funding amounts shown in the table include staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of BMPs, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. With prior years funding the Topographic Information and Watershed Evaluation elements were completed. A cooperative funding revenue agreement with Charlotte County has been developed as a multi-year funded project contingent on the approval of future funding to complete the WMP elements through the Watershed Management Plan. This is a multi-year funded project that will require a cooperative funding request each fiscal year until completed. The District will manage the project and enter into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	128,690	129,833	5,022	0	263,545
District Budgeted - Outside Revenue					
Charlotte Co - Charlotte Hbr Redevelopmnt (L486)	125,000	125,000	0	0	250,000
			Total		\$513,545

Critical Project Milestones

1. Critical Project Milestones

District logo will appear on all reports

Projected

Amended

Actual

12/31/06

2. Cooperator Agreement

FY2006 Funds Encumbered

1/3/06

Draft Agreement to Contracts Administration

9/20/05

Draft Agreement returned from Contracts Administration

10/15/05

1/4/05

Agreement Executed

12/1/05

4/5/06

3. Consultant Agreement

Consultant Agreement Executed	2/1/06		4/13/06
Notice to Proceed	2/2/06		4/13/06
Task 1- Topographic Information Commence	2/7/06	7/29/06	4/13/06
Task 2- Watershed Evaluation Commence	3/15/06		4/13/06
Task 1-Topographic Information Complete	4/15/06	1/29/07	10/10/06
Task 2- Watershed Evaluation Complete	7/15/06	11/17/06	

4. Amendment 1 to Consultant Agreement

Amendment Executed	7/10/06		7/29/06
Notice to Proceed	7/10/06		7/29/06
Work Order #2 (WMP) Executed	7/17/06		7/17/06

5. Amendment 1 to Cooperator Agreement (FY2007 Funding)

Amendment Executed	11/30/06		12/12/06
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6. Amendment 2 to Consultant Agreement (FY2007 Funding)

Task 3- Watershed Management Plan Commence	7/17/06	11/17/06	4/13/07
Amendment Executed	10/26/06		10/26/06
Model Development	8/1/07	10/13/07	
Floodplain Analysis	9/1/07	11/13/07	
Level of Service Determination	10/1/07	12/13/07	
Surface Water Resource Assessment	1/1/08		
BMP Alternative Analysis	4/1/08		
Task 3- Watershed Management Plan Complete	7/1/08		

7. Contract Completion

Consultant Agreement Expiration	7/29/06	12/31/08	
Cooperator Agreement Expiration	6/30/07	6/30/09	

Status As Of: July 06, 2007

Status History: The cooperative funding revenue agreement with Charlotte County was executed on April 6, 2006. The consultant services agreement with Ardaman & Associates was executed on April 13, 2006. A project kick off meeting was held on April 25, 2006 and work began. Work on the project was delayed because the LiDAR data from the District was not available for the consultant until 10/10/2006. The county applied for additional cooperative funding for FY2007 for completion of the WMP including BMP alternative analysis. An amendment to the Revenue Agreement incorporating the FY2007 funds was executed on December 12, 2006. A progress meeting was held on 04/03/2007. The Data Collection, Bibliography and Coverage deliverables were provided to the District on 04/13/2007 and were approved. **Current Status:** The Reconnaissance Report, Field Survey Plan and Inventory Coverage were provided to the District and are under review. Field Survey work is underway.

DeSoto County DCI Reuse Feasibility



Project Type	Cooperative Funding
AOR(s)	Water Supply, Water Quality
Basin(s)	Peace River
Cooperator(s)	DeSoto County
Project Manager	ANTOINE, TAMMY
Task Manager(s)	
Status	Ongoing

Description

This project includes 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. The county proposes this project to evaluate the specific area associated with the DCI WWTF to determine potential reclaimed water customers, pipe sizing and routing, regulatory considerations, and optimum facility sizing and water quality treatment requirements.

Benefits

Upon completion of this project, the county will have a reuse feasibility study for the wastewater treatment plant at the DeSoto Correctional Institute.

Costs

The cooperator has submitted the project for REDI funding consideration. The total cost of this project is estimated at \$50,000 and \$37,500 was approved by the Peace River Basin as part of its FY2006 budget.

Additional Information

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. DeSoto County recently assumed operation of the DCI WWTF and potable water wells (as well as those at the Department of Juvenile Justice facility located at the former G. Pierce Woods hospital) as part of their effort to develop a new water and wastewater utility system. The County currently has no wastewater customers other than the offenders and correctional staff at the two facilities, nor does the County possess any wastewater collection systems outside the facilities, but has plans for a water and wastewater utility system expansion to serve new customers in the County. The County has recently developed an ordinance to require new construction to connect to the future wastewater collection system, where appropriate, and a water and wastewater master plan is underway to determine optimum system configurations.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	39,813	2,822	0	0	42,635
Project Funds Not Budgeted by the District					
DeSoto County	12,500	0	0	0	12,500
			Total		\$55,135

Critical Project Milestones

	Projected	Amended	Actual
Draft Project Agreement	10/31/05		1/20/06
Execute Project Agreement	1/31/06		3/7/06
Begin Feasibility Study	6/1/06		5/26/06
Complete Feasibility Study	11/30/06		12/1/06
Project Close-out	5/30/07		

Status As Of: June 12, 2007

A cooperative funding agreement was executed on March 7, 2006. PBS&J submitted the feasibility study on December 1, 2006 and District staff has mailed a letter accepting the feasibility study. The GIS requirements and education plan requirements have been fulfilled. Upon completion of this project, DeSoto County has been reimbursed \$30,825.

Project Type	Cooperative Funding
AOR(s)	Water Supply, Water Quality
Basin(s)	Peace River
Cooperator(s)	Punta Gorda
Project Manager	ANTOINE, TAMMY
Task Manager(s)	
Status	Ongoing

Description

This project consists of a reuse feasibility study to identify the technical and financial elements of a reclaimed water system. The City of Punta Gorda owns and operates a 4 mgd wastewater treatment plant, and currently disposes all of its reclaimed water via a deep injection well. The feasibility study would consider a reclaimed water system to treat and deliver reclaimed wastewater for beneficial use as landscape irrigation.

Benefits

There is no resource benefit associated with this project.

Costs

The total estimated cost of this project is \$250,000, of which the Peace River Basin is requested to fund 50 percent, or \$125,000. Funding in the amount of \$125,000 has been budgeted for FY2007.

Additional Information

The City wants to develop a reclaimed water system that will assist in achieving goals of the SWUCA, reducing demands from the public water system and reducing demands from groundwater used for irrigation wells.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	127,822	1,166	0	128,988
Project Funds Not Budgeted by the District					
Punta Gorda	0	125,000	0	0	125,000
			Total		\$253,988

Critical Project Milestones

	Projected	Amended	Actual
Draft Project Agreement	10/31/06		9/1/06
Execute Project Agreement	12/31/06		12/20/06
Begin Feasibility Study	12/31/06		1/5/07
Complete Feasibility Study	5/31/07		
Project Close-out	12/31/08		

Status As Of: June 12, 2007

A Cooperative Funding Agreement was executed on December 20, 2006. Carollo Engineers was given notice to proceed on January 5, 2007 and has completed approximately 94% of the feasibility study. It is expected that the draft feasibility study will be submitted by the end of June. To date, \$125,000 has been encumbered, of which \$0 has been reimbursed.

Polk County Aquifer Recharge Project to Relieve Flooding and Augment GW Supplies

Project Type	Cooperative Funding
AOR(s)	Water Supply, Flood Protection
Basin(s)	Peace River
Cooperator(s)	Polk County
Project Manager	CHAN, DOREEN
Task Manager(s)	
Status	Ongoing

Description

This is a flood protection project that will evaluate the feasibility of using a collection of wells to expedite the recharge of excess surface water that is naturally treated by sands in the surficial aquifer. The concept of Recharge Well Fields (RWFs) is to allow water in the lower part of the surficial aquifer, that is filtered and treated as it moves downward through the surficial sediments, to recharge the underlying Upper Floridan aquifer via valve-regulated, gravity-driven connector pipes/recharge wells. For the first phase of this feasibility project, the county will construct two surficial aquifer test wells to collect and analyze water quality from the surficial aquifer. This initial data is needed to ensure that the quality of the surficial aquifer ground water will meet the Florida Department of Environmental Protection (FDEP) water quality standards for injection into the Upper Floridan aquifer. Additional monitor wells will also be installed and equipped with continuous recorders to measure water levels. If the quality of the ground water from the surficial aquifer meets FDEP requirements, then the county will proceed with additional feasibility work to construct an exploratory well and additional funding for future years will be requested. If water quality does not meet FDEP requirements, the project will not go forward and further funding will not be requested. This project directly supports ongoing efforts by the District to restore and enhance historic wetland and floodplain storage in the Peace Creek Drainage District (PCDD).

Benefits

This is an innovative project that could help reduce flooding by diverting and expediting the storage of excess surface water through recharge to the Upper Floridan aquifer. The project will support ongoing efforts by the District to restore and enhance historic wetland and floodplain storage in the PCDD. Additional benefits include recharging the Upper Floridan aquifer in the SWUCA and potentially providing future water supplies for the area.

Costs

The total FY2007 cost for this project is \$250,000 with the District's share requested to be \$125,000. Funding from the District is being provided by the Peace River Basin Board. Polk County has submitted a 2008 Cooperative Funding Application and has estimated a cost of \$250,000 to complete the second year of the project. They are requesting funding from the Peace River Basin Board.

Additional Information

A preliminary analysis, conducted for the city by the consultant Schreuder, Inc. identified four potential RWF locations where excess surface water run-off could be detained, and has recommended the installation of surficial test wells at two of the sites: 1) Lake Gwen near Wahneta (Site #1), and 2) Cypresswood Development (Site #2). In this first year of the project, Polk County will construct and monitor water quality from a surficial aquifer test well at the two sites. Monthly water samples will be collected and analyzed to ensure that the quality of the ground water from the surficial aquifer will meet underground injection control (UIC) water quality standards. Six additional monitor wells will also be installed and equipped with continuous recorders for each site. After one year of monitoring, Polk County will assess the water quality data collected and begin the permitting process needed for the installation and operation of the recharge wells. The consultant's concept of the RWF involves the installation of up to 25 recharge wells per site, with a well infiltration/recharge rate of approximately 50 to 60 gallon/minute per well (72,000 gpd). If four RWF sites were developed, (25 wells per site; 100 recharge wells total) this would represent approximately 7 to 8 millions gallons per day of recharge to the Floridan aquifer. It may take an additional two years for the permitting process, the well installation and subsequent testing before a final operational permit can be issued by the FDEP. If the water quality of the ground water from the test wells cannot meet the UIC criteria, the project will not proceed and additional funding will not be requested.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	129,755	5,101	0	134,856
Project Funds Not Budgeted by the District					
Polk County	0	125,000	125,000	0	250,000
			Total		\$384,856

Critical Project Milestones

- 1. Critical Project Milestones**
Execute Contract

Projected	Amended	Actual
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Construct wells (2) and monitor wells
WQ and Data Collection; Interpretation/Analysis
Report Preparation and Review
Contract Close-out
Governing Board Approval Date

9/20/06

Status As Of: May 02, 2007

Funding for this project was approved by the District at the September 2007 Governing Board meeting. The project manager for Polk County submitted a Scope of Work for the project in October and a meeting was held with the consultant performing the work. Modifications to the scope were made and the County submitted an expanded Scope of Work. A contract between the county and District has been drafted and was approved by Management Services in late April 2007. A copy of the contract was sent to the County for signature.

Polk - WMPlan Polk County

Project Type	Cooperative Funding
AOR(s)	Flood Protection
Basin(s)	General Fund (District), Alafia River, Hillsborough River, Peace River
Cooperator(s)	Polk County Natural Resources
Project Manager	TURNER, DAWN
Task Manager(s)	
Status	Ongoing

Description

This is a multi-year funded project to perform the development of 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for watersheds in Polk County. Polk County encompasses approximately 2009 square miles within central Florida, of which 1,586 square miles are located within the District. The County is experiencing very rapid growth, which threatens to expand into areas that are subject to recurrent flooding. Within the District, Polk County has 25 major watersheds. Of these, all or portions of 11 watersheds have already been, or currently are the subject of a Watershed Evaluation and Watershed Management Plan including: Peace Creek Canal, Lake Hamilton, Lake Lulu, Saddle Creek, Itchepackesassa Creek, McCullough Creek, Gator Creek, Bowleggs Creek, Crooked Lake, Lake Reedy, and the Poley Creek portion of the North Prong Alafia River. This project will involve the development of Topographic Information, including 1-foot topographic contour maps using LIDAR data obtained by the District in 2005; the development of Watershed Evaluations and Watershed Management Plans for the remaining 14 watersheds; the development of Watershed Evaluations and Watershed Management Plans for the remaining portion of the North Prong Alafia River Watershed (including a Watershed Evaluation for the Christina Watershed); and an update of previous Watershed Evaluations to reflect changes in the watersheds and make the information consistent with the District's Guidelines and Specifications. The Polk County watersheds will be prioritized, and work orders will be issued to consultants for individual watersheds.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) with their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies; and 2) provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management through the Total Maximum Daily Loads (TMDL) process for their National Pollution Discharge Elimination System (NPDES) permit requirements.

Costs

The total funding amount for this project is \$2,100,000 of which the District's share will be \$1,050,000. Polk County will contribute \$1,050,000. For FY2007, \$836,574 is appropriated in the following Basin budgets: Governing Board acting for the Green Swamp Basin (\$289,978), Peace River Basin (\$336,140), Alafia River Basin (\$136,326), and the Hillsborough River Basin (\$74,130). \$418,287 in revenue will be received from Polk County, and distributed as follows: Governing Board (\$144,989), Peace River Basin (\$168,070), Alafia River Basin (\$68,163), and the Hillsborough River Basin (\$37,065). Basin funding and revenue distributions are based upon the percent project area within the Basin. With \$836,574 in FY2007, the Topographic Information will be completed and Watershed Evaluations will be initiated for the priority watersheds, including the Polk City and the Christina Watersheds. \$550,000 in FY2008 funding (\$96,500 Governing Board, \$178,500 Hillsborough Basin, and \$275,000 Polk County) has been requested. FY2008 funding will be used to complete Topographic Information, Watershed Evaluation and Watershed Management Plan tasks for Hillsborough River and Green Swamp watersheds. \$713,426 will be needed in future years to update or complete Watershed Evaluations and Watershed Management Plans for all of the Polk County watersheds. As tasks are completed, the project budget and scope will be refined based on the information developed. The District funding amounts shown in the table include staff salaries.

Additional Information

Polk County desires to create a county-wide Stormwater Master Plan to include data from previous Watershed Evaluations, Watershed Management Plans, Stormwater and Basin Master Plans, stormwater land development regulations, standards and criteria, recommended actions to satisfy new regulatory programs (NPDES and TMDL), operation & maintenance plans, and recommended BMPs. The vehicle to develop this information is the District's Watershed Management Program. The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. A cooperative funding revenue agreement with the County will be developed as a multi-year funded project contingent on the approval of future funding to complete Watershed Evaluations and Watershed Management Plans for all of the watersheds. This will require the submission of a cooperative funding request each fiscal year until the project is completed. If approved, this project will be ranked as a 1A project in future fiscal years. The District will manage the project and enter into purchase orders and agreements to accomplish

project tasks. Cost estimates will be developed for Watershed Management Plans upon completion of the associated Watershed Evaluation. The District is cooperating with FEMA to modernize the flood insurance rate maps (FIRMs) in Polk County. Information developed with this project will be used to update the FIRMs representing this watershed.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	149,483	102,446	142,685	394,614
011 Alafia River Basin	0	70,777	6,294	71,343	148,414
013 Hillsborough River Basin	0	39,679	180,038	71,342	291,059
020 Peace River Basin	0	170,499	1,364	428,056	599,919
District Budgeted - Outside Revenue					
Polk Co - Watershed Evaluation (L672)	0	418,287	275,000	0	693,287
Total					\$2,127,293

Critical Project Milestones

1. Revenue Contract

	Projected	Amended	Actual
Contract to Polk County for signautre	11/7/06		11/7/06
Contract presented to County Commission	1/24/07		1/24/07
Contract Executed	2/28/07		2/13/07
Contract Expiration	1/31/10		

2. Consultant Services Agreement

PO issued to Woolpert to process LiDAR	2/28/07		2/22/07
LiDAR processing complete	8/31/07		

3. Consultant Services Agreement

Agreement executed with BCI for Polk City watershed	2/28/07		2/26/07
Notice to Proceed - Polk City Watershed Evaluation	2/28/07		3/12/07
Polk City Watershed Evaluation complete	2/28/08		
BCI Contract Expiration	1/31/10		

4. Consultant Service Agreement

First Amendment Executed	6/19/07		6/19/07
Second Amendment Executed	9/30/07		

4. Consultant Services Agreement

Agreement executed with PBS&J for Christina Watershed Evaluation	2/28/07		2/26/07
Notice to Proceed - Christina Watershed Evaluation	2/28/07		3/14/07
Christina Watershed Evaluation complete	7/31/07	10/31/07	
PBS&J Contract Expiration	7/31/07	10/31/07	

5. Consultant Service Agreement

Agreement with Ardaman Executed for the Bowleggs Creek Watershed	9/30/07		
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6. Consultant Service Agreement

Agreement with Boyle Executed for the Reedy Creek Watershed	9/30/07		
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7. Consultant Service Agreement

Agreement with Keith and Schnars Executed for the Itchepackesassa Creek Watershed	9/30/07		
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Status As Of: June 28, 2007

The Cooperative Funding Revenue Agreement was executed on February 13, 2007. A Purchase Order was issued to Woolpert on February 22, 2007 to complete the processing of LiDAR information, and produce 1 foot topographic contours. Consultant Services Agreements for development of Digital Topographic Information and preparation of Watershed Evaluations for the Christina and the Polk City watersheds have also been executed. The associated Work Orders and Notices to Proceed were issued on March 14, 2007 and March 12, 2007 respectively. A public kickoff meeting was held for the Christina Watershed Evaluation in the District's Bartow Service Office on April 19, 2007. The meeting was intended to notify area residents and other interested parties about the project, and solicit input. About 25 residents attended, and participated in a lively discussion about flooding and water quality problems in the watershed. The First Amendment to the Agreement with PBS&J was executed on June 19, 2007 to extend the contract expiration from July 31, 2007 to October 31, 2007 to provide sufficient time for additional coordination with affected residents. A Second Amendment to the Agreement with PBS&J is currently under development to add funds for the Poley Creek Watershed Evaluation. Agreements with Ardaman and Associates, Boyle Engineering Corporation, and Keith and Schnars are also under development for the Bowleggs Creek, Reedy Creek and Itchepackesassa Creek Watersheds respectively. The Itchepackesassa Creek Watershed was the subject of a previous Watershed Evaluation. However, the Digital Topographic Information and Watershed Evaluation were completed prior to the development of the District's 2005 LiDAR data for this area. Project

funds will be used to incorporate the District's LiDAR data and changes that have occurred in the watershed. FY2008 funding has been requested to expand the scope of work to include Watershed Management Plan tasks. FY2008 funds will be used for watersheds within the Hillsborough River and Green Swamp Basins. Status History: The County requested that FY2007 funds approved for the recently withdrawn Stormwater Assessment Study and GIS parcel digitization (L675) project be transferred to this project. The total project budget will remain the same. The revised FY2007 amounts were presented to the Governing Board, Alafia River Basin Board and Hillsborough River Basin Board at their August 2006 meetings. The funding amount for the Peace River Basin was not changed for FY2007. The FY2007 and future funding amounts shown in the table above have been revised accordingly. The County requested out-of-cycle FY2007 funding for the Christina Watershed Management Plan. At their December 2006 meeting, the Alafia River Basin Board approved funding the Christina Watershed Management Plan

Lake Wales Reuse Project

Project Type	Cooperative Funding
AOR(s)	Water Supply, Water Quality
Basin(s)	Peace River
Cooperator(s)	Lake Wales
Project Manager	NOURANI, MEHRSHAD
Task Manager(s)	NOURANI, MEHRSHAD
Status	Ongoing

Description

This project consists of a reclaimed water system to be completed in three phases: Phase I consists of the construction of a 2 mgd capacity pumping station at the existing Lake Wales wastewater treatment plant (WWTP) and 14,000 linear feet of 20-inch diameter transmission main from the WWTP to a cluster of 7 rapid infiltration basins (RIBS) on City-owned property southwest of the WWTP. Phase II consists of the design and construction of a high service pumping station and a 2-mg reclaimed water storage tank at the RIB site. Phase III consists of design and construction of approximately 20,970 linear feet of transmission line from the RIB site to the Lake Wales Country Club golf course, Mayfair residential/commercial development, City-owned soccer fields, City-owned groves, Whispering Ridge residential development, and Long Leaf Business Park. Phase I and II are complete. Phase III design was scheduled to commence by December 31, 2006 and completed by July 31, 2007. The City is currently developing a new work scope and schedule for this project.

Benefits

This project provides 2.025 mgd of reclaimed water, offset approximately 1.245 mgd of ground water from the Floridan Aquifer.

Costs

The total project cost is \$6,334,222 and the District's share is expected to be \$2,096,369. The City is completing this project with District Cooperative Funding Program dollars and DEP State Revolving Fund (loan) dollars. The Peace River Basin Board budgeted \$699,500 in FY2002, and the remaining portion of the District's share in the future. Budget below does not reflect prior year funding for \$562,500 in FY1997, \$130,000 in FY1998 and \$700,000 in FY1999.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	703,869	0	3,268	0	707,137
Project Funds Not Budgeted by the District					
City of Lake Wales	0	0	0	1,080,145	1,080,145
			Total		\$1,787,282

Critical Project Milestones

	Projected	Amended	Actual
Contract Execution			1/2/97
Phase I Commence Construction	10/31/97		10/31/97
Phase I Completion	6/30/98		5/31/98
Phase II Design Commencement	4/25/99		1/30/98
Phase II Complete Design	2/28/01	2/3/03	1/6/04
Phase III (delayed by the City) Design Commencement	12/31/06		
Phase III (delayed by the City) Design Completion	7/31/07		
Phase III (delayed by the City) Construction Commencement	12/31/08		
Phase III (delayed by the City) Construction Completion	7/31/09		
Phase III (delayed by the City) Contract Completion	12/31/09		
Contract (delayed by the City) Close Out	6/30/10		

Status As Of: June 18, 2007

The City's and the Highland Park Country Club's attorneys are in the final stages of contractual agreement in regards to the City providing Reuse water to their golf course and other possible development within the property. The signed contracts is expected to go before the City Commission for approval with subsequent signing of the agreement with the District within 45 day of this update or by (September 2007). The City also has in house engineered drawings of the proposed reuse line to the City owned groves and the new line to the City soccer fields. The Longleaf Business Park has been connected to the reuse system with all existing businesses' landscaping and common areas being irrigating by reuse waters. The City understands that District does not disapprove of the construction of any of the lines being done by City personnel as long as there are certified engineering plans associated with the construction.

Polk - WMPlan & Imp. BMPs Peace Creek Canal/Wahneta Drainage System

Project Type Cooperative Funding
AOR(s) Flood Protection
Basin(s) Peace River
Cooperator(s) Polk County Natural Resources
Project Manager TURNER, DAWN
Task Manager(s)
Status Ongoing

Description

This is a multi-phase multi-year funded project. Phase III (Improvements Implementation) includes: (1) acquisition of all rights-of-way and easements, permanent and temporary, necessary for construction and future maintenance and operation activities; (2) construction of the permitted improvements; and (3) for areas outside of the permitted improvement area, conduct ditch maintenance including the removal of excess sediment and woody vegetation. The total budget for Phase III is \$1,464,148. The District's share (budgeted in FY1999) is \$732,074. Phase IV (Storage Improvements) Polk County gained control of the Wahneta Drainage System after the Wahneta Drainage District was dissolved. Before that time, maintenance of the system had been neglected. Consequently, previous cooperative efforts were focused on restoration of the conveyance system (refer to Phases I, II and III). While Phases I, II and III involved immediate maintenance, and the design and construction of conveyance improvements, Phase IV involves the creation of additional storage capacity within the watershed to enhance water conservation and flood protection. Opportunities for providing additional storage capacity in the Wahneta Drainage System will be evaluated; a restoration plan will be prepared for Lake Gwyn; and an operational assessment of the Winter Haven Chain of Lakes, including the Lake Lulu outfall structure, will be performed. Phase IV also includes updating two elements of the Watershed Management Program: the Watershed Evaluation, and the Watershed Management Plan. Updates for each element will be developed in accordance with the District's Watershed Management Program Guidelines and Specifications. Phase IV is a revenue contract. Therefore the total project amount of \$400,000 was budgeted in FY2002, and has been encumbered by the District. Polk County will reimburse the District for 50% of the project costs.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) with their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies; and 2) provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management through the Total Maximum Daily Loads (TMDL) process for their National Pollution Discharge Elimination System (NPDES) permit requirements.

Costs

The total funding amount for this project is \$320,000, of which the District's share is \$160,000. The City will contribute \$160,000.

Additional Information

In 1996, a comprehensive water management funding program was developed between Polk County and the District. The funding program was formalized through the "Letter of Agreement between the Southwest Florida Water Management District and Polk County", dated November 21, 1996 (LOA). The Peace Creek Canal/Wahneta Drainage System is one of the project areas identified in the LOA. The 225 square mile watershed has been experiencing flooding problems around lakes in the Winter Haven and Lake Hamilton Chain of Lakes in the northern part of the watershed. Flooding has also been experienced along the Peace Creek Canal and the Wahneta Drainage System in the southern part of the watershed. The project involves enhancing the Peace Creek Canal/Wahneta Drainage System to more effectively convey stormwater and discharge from the Winter Haven and Lake Hamilton Chain of Lakes; and to improve flood protection by creating additional stormwater storage where possible.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	1,187,703	2,246	2,379	0	1,192,328
District Budgeted - Outside Revenue					
Polk Co - Peace Ck/Wahneta Drainage Sys (P730)	1,137,500	0	0	0	1,137,500
			Total		\$2,329,828

Critical Project Milestones

1. Critical Project Milestones

Projected

Amended

Actual

Signage for Phase III construction	7/31/03		5/23/05
Recognition on Phase IV deliverables	8/21/05		4/8/05
2. Phase III			
Cooperative Funding Agreement (CFA) execution	6/30/00		6/19/00
Notice to proceed to Polk County	7/31/00		6/19/00
1. Land & Easements Acquisition	7/31/03	7/31/07	7/31/03
3. Maintenance (outside permitted improvement areas)	7/31/03	7/31/07	7/31/03
2. Construction at Improvement Areas	7/31/04	7/31/07	6/30/06
Contract termination	7/31/05	7/31/07	
3. Phase IV			
Cooperative Funding Agreement (CFA) execution	4/30/02		5/19/03
Consultant Services Agreement (CSA) executed	7/19/03		8/16/03
1st Work Order assigned	7/19/03		8/21/03
Element 1, Digital Topographic Information Commence	8/21/03		8/21/03
Element 2, Wahneta Canal - Watershed Evaluation Commence	8/21/03		8/21/03
Element 3, Wahneta - Watershed Management Plan Commence	11/21/03		2/27/04
Element 1, Digital Topographic Information Complete	12/21/03		4/6/04
Element 2, Wahneta Canal - Watershed Evaluation Complete	12/21/04	3/21/04	7/20/04
Element 3, Wahneta - Watershed Management Plan Complete	2/21/05		4/8/05
CFA expiration	12/31/06		12/31/06
Consultant Services Agreement expiration date	12/31/06		12/31/06

Status As Of: June 29, 2007

Phase III (Improvements Implementation): Complete. Construction was initiated on May 23, 2005, and completed by June 30, 2006. The Peace River Basin Board has encumbered \$732,074 (District's share) for this project, of which \$619,129 has been expended. Awaiting final invoice from Polk County. Status History: Phase I (Evaluation, Conceptual Design and Permitting), Phase II (Design and Permitting), and Phase IV (Storage Improvements) are complete. The existing conditions model, Supplemental Survey Report, and Watershed Management Plan for the Wahneta Canal were received on April 8, 2005. The GIS deliverables have been completed but are not entirely in the District's G&S format. The consultant has been advised that these corrections need to be made as part of the H034 project. The Peace River Basin Board provided \$400,000 of FY2002 funds for Phase IV. Since Phase IV is a revenue project, one-half of the project costs, up to \$200,000, will be reimbursed by Polk County. The final invoice for Phase IV has been received and paid. The total amount invoiced by PBS&J for Phase IV is \$381,450. The remaining funds(\$9,275 District's share) will be liquidated. Including all four phases of this project, the District's share is \$1,137,500, of which \$1,010,028 has been expended.

Sebring - WMPlan Sebring

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) City of Sebring
Project Manager FRIES, GEORGE
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a 1-A priority. Completing elements of the District's Watershed Management Program is a District Strategic Priority for managing the water resource and providing information to local governments to address land use changes and stormwater management issues within a specific watershed. Sebring, located in Highlands County, is a REDI community and is seeking a reduction of the standard 50% funding match to one where the Peace River Basin Board will fund 75% of the project costs and the city will fund 25%. A senior administrator has provided confirmation that the city will budget the project for FY2008 funding.

Description

This is a multi-year funded project to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the City of Sebring Watershed. The watershed covers an area of approximately 51 square miles and is located in northwest Highlands County. Issues in the watershed include rapid growth and potential water quality issues because runoff from the city discharges to Lake Jackson. Since the project began in FY2004 the city has experienced considerable growth in the form of annexation and the city's land area has more than doubled. With prior years funding the Topographic Information, Watershed Evaluation and Watershed Management Plan for the then existing incorporated area of the city were completed. With FY2007 funding the work on the Topographic Information, Watershed Evaluation and Watershed Management Plan elements for the additional incorporated land began. With FY2008 funding the remaining work on the Watershed Management Plan, including the BMP Alternative Analysis and the Surface Water Resource Assessment will be completed.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) with their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies, and 2) provides a geodatabase and projected results from watershed model simulations for floodplain management and water quality management.

Costs

The total budgeted amount for this project, including the completed FY2004 work, is \$345,000 of which the District's multi-year share is \$258,750. Sebring, located in Highlands County, is a R.E.D.I. community and is seeking a reduction of the standard 50% funding match to one where the Peace River Basin Board will fund 75% of the project costs and the city will fund 25%. For FY2008, \$25,000 is appropriated in the Basin Board's budget with revenue of \$6,250 from the City of Sebring. When each element is completed the project budget and scope may require refinement based on the information gathered. The District funding amounts shown in the table include staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of BMPs, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. A cooperative funding revenue agreement with the City of Sebring has been developed. The District is managing the project and has entered into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	161,239	95,749	23,758	0	280,746
District Budgeted - Outside Revenue					
Sebring - Water Mgmt Plan (L151)	50,000	30,000	6,250	0	86,250
			Total		\$366,996

Critical Project Milestones	Projected	Amended	Actual
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1. Critical Project Milestones

District logo will appear on all reports	11/1/05	8/1/05
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2. Cooperator Agreement

Draft Agreement to Management Services	7/15/03	7/15/03
Draft Agreement Returned from Management Services	7/28/03	7/28/03
Peace River Basin Board Approval of Agreement	8/15/03	8/15/03
Governing Board Approval of Agreement	8/26/03	8/26/03
Cooperator Contract Executed (Revenue Agreement)	10/1/03	10/1/03
First Amend. to Cooperator Contract Executed (Expenditure)	1/30/04	1/30/03
Second Amend. to Cooperator Contract Executed (Revenue)	4/13/04	6/29/04
Third Amend. to Cooperator Contract Executed (FY2005 funding)	10/1/04	12/1/04
Fourth Amend. to Cooperator Contract Executed (FY2007 funding) (Annexed Land)	10/1/06	8/29/06

3. Consultant Agreement

Consultant Agreement Executed	1/1/05	12/1/04
Consultant Notice to Proceed (Work Order #1 DTI & WE)	1/1/05	12/2/04

3A. Work Order #1

Element 1, Digital Topographic Information Commence	5/1/04	7/15/04
Element 1, Digital Topographic Information Complete	3/1/05	2/7/05
Element 2, Watershed Evaluation Commence	5/1/05	2/15/05
Element 2, Watershed Evaluation Complete	11/1/05	9/2/05

4. Work Order #2

Work Order Executed (WMP)	9/13/05	9/13/05
Element 3, Watershed Management Plan Commence	11/1/05	9/13/05
Element 3, Watershed Management Plan Complete	3/1/06	6/1/06

5. Annexed Land

Consultant Agreement Executed	2/28/07	12/4/06
Notice to Proceed to Consultant	3/1/07	12/13/06
Element 1, Digital Topographic Information Commence	3/1/07	12/13/06
Element 2, Watershed Evaluation Commence	7/1/07	1/22/07
Element 1, Digital Topographic Information Complete	9/1/07	2/18/07
Element 3, Watershed Management Plan Commence	9/1/07	
Element 2, Watershed Evaluation Complete	11/1/07	
Element 3, Watershed Management Plan Complete	9/1/08	

6. Contract Completion

Consultant Agreement Expiration (Annexed Land)	12/31/08
Cooperator Agreement Expiration (Annexed Land)	12/31/08

Status As Of: July 05, 2007

Status History: Staff prepared the Cooperative Funding Agreement which was approved by the Boards and signed by the Executive Director on 10/01/2003. On November 12, 2003, the city notified the District that they wanted to be the lead agency to this Agreement. District staff prepared an amendment to the Agreement to allow the City to be the lead agency. The Executive Director signed this amendment on 01/30/2004. On February 19, 2004, the city notified the District that they wanted to revert back to the original agreement which was a revenue agreement whereby the District would be the lead party and would be responsible for administration of the contract with the consultant. When the Governor vetoed the legislation to transfer Highlands County into the SFWMD, the Executive Director signed the Second Amendment to the CFA in June 2004. District staff prepared a third amendment to incorporate the FY2005 funding and the amendment was executed with an effective date of October 1, 2004. The District Staff prepared a contract for engineering services to perform the Watershed Management Program. The project kick off meeting was held on December 17, 2004. Work on the elements of the WMP for the then existing incorporated areas of the city was completed. The City applied for cooperative funding for FY2007 to continue the WMP in the newly annexed areas of the city. The Basin Board budgeted \$120,000 with revenue of \$30,000 from Sebring for FY2007 for the next phase of the WMP for the city. A fourth contract amendment to incorporate the FY2007 funding to complete a WMP for the newly annexed land south of Lake Jackson was executed by both parties. The District continues to be the lead party in this agreement. The project kick off meeting was held on 12/13/2006 and work began. The city has applied for FY2008 cooperative funding to complete the work on the WMP for the annexed land. Current Status: The Digital Topographic Information deliverable has been submitted and approved. Work on the Watershed Evaluation has begun and is continuing.

Highlands WMPlan Lake Placid

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) Highlands County
Project Manager ARNOLD, DAVE
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a 1A priority. Completing elements of the District's Watershed Management Program is a District priority for managing the water resource, and providing information to local governments to address land use changes and stormwater management within a specific watershed. The cooperator submitted the project for REDI consideration.

Description

This is a multi-year funded cooperative project with Highlands County to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the Lake Placid Watershed. The watershed covers an area of approximately 20 square miles and is located in Highlands County. Issues in the watershed include rapid growth, natural systems preservation, flood protection, and water quality. Prior year funding is to complete Topographic Information and a portion of the Watershed Evaluation. FY2008 funding should complete the Watershed Evaluation and watershed parameterization and model development tasks of the Watershed Plan. Future funding is required to complete the Watershed Plan. Topographic information includes the acquisition of data and development of the terrain features in the Geodatabase to be used in the Watershed Evaluation. The Watershed Evaluation includes collection of existing data, GIS processing of the terrain features to establish catchments and connectivity, field reconnaissance, refinement of the terrain features and development of the hydraulic element point features. The Watershed Management Plan element includes: development of watershed parameters for a specific use, GIS processing, computer modeling, floodplain and water quality analysis, surface water resource assessment, establishment of LOS, BMP alternative analysis.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management through the Total Maximum Daily Loads (TMDL) process for their National Pollution Discharge Elimination System (NPDES) permit requirements.

Costs

The total budget for this project is multi-year funded project is \$800,000, to be funded in FY2006 and FY2008-2009. Under the REDI project funding split the Peace River Basin's 75% share totals \$600,000, and Highland County's 25% share totals \$200,000. The FY2008 budget totals \$350,000 with the County revenue of \$87,500 and the Basin Board contributing \$262,500. Future funding in FY2009 is needed to complete the project. When each element is completed the project budget may require refinement based on the information gathered.

Additional Information

A WMP includes five major elements: Topographic Information, Watershed Evaluation, Watershed Management Plan, Implementation of Best Management Practices, and Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies. The prior funding and proposed FY2008-2009 funding will be used to complete the Topographic Information, Watershed Evaluation, and Watershed Management Plan elements. A cooperative funding revenue agreement with Highlands County will be developed as a multi-year funded project contingent on the approval of future funding to complete the WMP elements through the Watershed Management Plan. This multi-year funded project requires a cooperative funding request each fiscal year until completed. The District will manage the project and enter into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	79,814	4,102	268,842	262,500	615,258
District Budgeted - Outside Revenue					
Highlands Co - Lake Placid WMP (L473)	25,000	0	87,500	87,500	200,000

	Total		\$815,258
Critical Project Milestones	Projected	Amended	Actual
1. Critical Project Milestones			
Draft Agreement to Management Services	5/1/06		7/1/06
Draft Agreement Returned from Management Services	7/1/06		8/1/06
Cooperator Contract Executed	9/1/06		10/1/06
Consultant Contract Executed	12/1/06		10/1/06
Notice to Proceed to Consultant	1/1/07		12/7/06
Watershed Evaluation Commence	1/1/07		5/21/07
Watershed Evaluation Completion	1/1/08		
Watershed Plan Commence	1/1/08		
Watershed Plan Completion (project complete)	2/1/10		
Project Close-out	6/30/11		

Status As Of: June 22, 2007

Agreements between the District and Highlands County for cooperative funding, and the District and Brown and Caldwell for consulting services have been executed. Brown and Caldwell has executed an agreement with 3001, a District approved mapping vendor, to provide LiDAR mapping for the project. Flights for the LiDAR were done over the winter, and processing is due for completion by August 2007. Notice to proceed with work order #1 was issued to Brown and Caldwell on 05/21/07. This work order is to review existing water quality data and produce a water quality monitoring plan.

Dundee Reclaimed Water Use System Project

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality
Basin(s) Peace River
Cooperator(s) Dundee
Project Manager NOURANI, MEHRSHAD
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a 1A priority. This project addresses basin water supply priorities in that it reduces groundwater withdrawals from the Floridan Aquifer in the SWUCA. This project is within the District's statutory authority to fund and is not the result of a permit requirement or enforcement action, and is potentially eligible for state funding through the Water Protection and Sustainability Program.

Description

This alternative water supply project includes the design and construction of approximately 3,900 lineal feet of 16-inch and 11,800 linear feet of 12-inch, and 3,100 lineal feet of 10-inch reclaimed water transmission main, a high service pump station (1,000 gallon per minute), two 2.25 million gallon storage tanks with a combined storage capacity of 4.5 million gallons, and other necessary appertences. 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.

Benefits

The project will provide 0.37 mgd of reclaimed water to 1,821 residential irrigation customers and commercial/industrial customers to offset a combined project total of mgd 0.18 mgd of potable quality water.

Costs

The cooperator has submitted the project for Rural Economic Development Initiative (REDI) funding consideration. The total project cost is estimated to be \$4,016,000 and with the cooperator seeking REDI consideration, the District's share is expected to be \$3,012,000 (75 percent). The Peace River Basin Board budgeted \$204,000 in FY2006. The Peace River Basin Board is asked to fund \$1,000,000 million in FY2008, representing 75 percent of the \$1,333,333 estimated project cost for the year. The remaining estimated balance will be funded by the Town from the Utilities reserves, connection fees, and other loans. The Town is also seeking grants and loan funding through the USDA Rural Utilities Service which, if received, will reduce the total project cost for both parties. The USDA RUS program funded the initial design and construction of the WWTF.

Additional Information

Of the total project cost, \$421,000 is allocated for design costs, and the remaining \$3,595,000 is allocated for construction costs.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	205,774	3,131	421,223	0	630,128
District Budgeted - Outside Revenue					
Water Protection & Sust T.F. (Alternative Wtr)	0	0	136,867	0	136,867
Project Funds Not Budgeted by the District					
Town of Dundee	0	0	0	1,004,000	1,004,000
			Total		\$1,770,995

Critical Project Milestones	Projected	Amended	Actual
Draft Agreement returned from Contracts Administration			6/7/06
Draft Agreement Returned to Contracts Administration			2/9/06
Contract to Cooperator for signature	6/13/06		7/11/06
Contracted Executed	7/14/06		7/14/06
Notice to Proceed	7/17/06		8/14/06
Design Commenced	9/1/06		11/10/06
Design Completed	11/30/07		
Construction to Begin	3/31/08		
Construction Completion	12/31/08		
Contract close-out	1/31/09		

Status As Of: June 26, 2007

The City Manager recently stated (06/26/2007) that the Town has no plans to pull or otherwise reduce our commitments on this or any other cooperative funding project. The Town consultant has also indicated that the Town is on schedule to complete design plans by November 30, 2007

DeSoto - WMPlan Desoto County

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s) DeSoto County
Project Manager LETASI, SCOTT
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as 1A priority. Project was initiated with FY2007 funding. This project will perform elements of the Watershed Management Program. Completing elements of the District's Watershed Management Program is a District strategic priority, which provides an implementation framework to manage the water resource. The program assists local governments the regulation of land use, and stormwater management within a specific watershed. The Cooperator submitted the project for REDI consideration.

Description

This is a multi-year funded project to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the one of the high priority watersheds. Desoto County has identified the Peace River, Thorton Branch, and Joshua Creek Watersheds as high priority watersheds for the WMP. The issues in the watersheds include flood damage, level of service deficiencies, rapid growth, and water quality. The Watershed Management Plan includes the following tasks: survey, data management and development of watershed parameters, GIS processing, computer modeling, floodplain analysis, surface water resource assessment (water quality) establishment of LOS, BMP alternative analysis.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management.

Costs

The total budget amount for this project is \$750,000, of which the District's share is \$562,500 from the Peace River Basin, the County will contribute \$187,500. The FY2007 budget included \$393,750 from the Peace River Basin and \$131,250 from the County. The FY2007 Peace River Basin funds of \$393,750 have been balanced forward and no work will be done in FY2007. The county has applied for cooperative funding in FY2008 with a contribution of \$56,250 and \$131,250 in future funding. Future funding will be required to complete the project. When each element is completed the project budget will be refined based on the information gathered. Desoto County is a REDI community and pays 25% of the projects total cost. The Districts match is 75% of the total project cost.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. A cooperative funding revenue agreement with Desoto County will be developed as a multi-year funded project contingent on the approval of future funding to complete the WMP elements through the Watershed Management Plan. This is a multi-year funded project that will require a cooperative funding request each fiscal year until completed. The District will manage the project and enter into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models. The District is cooperating with FEMA to modernize the flood insurance rate maps (FIRMs) in the County with FY2007 funding (\$770,000). Information developed with this project will be used to update the FIRMs representing these watersheds. Cooperator submitted the project for Rural Economic Development Initiative (REDI) consideration.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	398,113	171,853	337,500	907,466
District Budgeted - Outside Revenue					
DeSoto Co - Stormwater Master Plan (L633)	0	131,250	56,250	337,500	525,000
			Total		\$1,432,466

Critical Project Milestones	Projected	Amended	Actual
1. Critical Project Milestones			
County Agreement Executed	7/1/07	7/1/08	
Consultant Agreement Executed	10/1/07	10/1/08	
Notice to Proceed	10/1/07	10/15/08	
2. Digital Terrain Model			
Digital Terrain Model	11/1/07	12/15/08	
3. Watershed Evaluation			
Begin Watershed Evaluation	12/1/07	1/1/09	
Complete Watershed Evaluation	2/1/08	5/15/09	
4. Watershed Management Plan			
Begin Watershed Management Plan	2/15/08	6/1/09	
Complete Watershed Management Plan	7/1/08	10/15/09	

Status As Of: July 05, 2007

Status History: Meeting was conducted with the County's new project manager on November 9, 2006 to discuss the project and the Cooperative Funding Agreement. In the development of the agreement, the County identified that this project was mistakenly not in the County's FY2007 budget. On February 23, 2007, Desoto County sent a letter to the District indicating the County's budgeting error and its commitment to the Watershed Management Program in FY2008. Status Current: The FY2007 Peace River Basin Board funds set aside for this project have been balanced forward. Therefore, this project has been delayed until funding is available in FY2008.

Charlotte County/City of Punta Gorda Emergency Interconnect (Canceled)

Project Type Cooperative Funding
AOR(s) Water Supply
Basin(s) Peace River
Cooperator(s) Charlotte County Utilities
Project Manager ARMSTRONG, BRIAN
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a 1A priority. The 1A ranking is for the previously approved emergency interconnect project and does not apply to the additional cost or expanded scope. Charlotte County's FY2008 cooperative funding application requested an additional \$2,500,000 above what the Peace River Basin Board approved in FY2007. The revised application asks the District to fund half of the entire \$10 million pipeline project. Additionally the revised request goes beyond the emergency interconnect (river crossing) the District originally agreed to help fund. The County intends to use the pipeline to purchase water directly from the City of Punta Gorda and reduce its dependence on the Peace River/Manasota Regional Water Supply Authority. This approach is a direct divergence from the direction given by the Governing Board to develop alternative water supplies through regional water authorities. District staff still supports construction of the emergency interconnect beneath the Peace River but not the increase in cost or project scope. It has been made clear on several occasions that the District is not opposed to Charlotte County using the emergency interconnect and remaining portions of the pipeline to convey water from the Authority or its Burnt Store facility. There is sufficient information to evaluate the project. There is sufficient data to evaluate the project, it is within the Basin Board's statutory authority to fund, and it is not the result of a permit requirement or other enforcement action.

Description

This project has been canceled and combined into project H069. The new expanded pipeline will provide not only an emergency interconnect but many additional regional benefits. The new expanded pipeline will be owned and operated by the Peace River/Manasota Regional Water Supply Authority.

Benefits

As a result of this project, a second connection will be created between the Peace River/Manasota Regional Water Supply Authority system (via Charlotte County) and Punta Gorda's Shell Creek WTP. It will create a more reliable/redundant regional transmission system by providing a second river crossing and provide additional delivery option to Charlotte County if repairs or maintenance are needed to the Authority's delivery system. In addition the project allows for further opportunities to conjunctively use two surface water sources within the SWUCA.

Costs

Total project cost is \$10,000,000 and the District is requested to fund a total of \$2,500,000. The proposed funding commitment from the Peace River Basin Board is \$1,000,000 in FY2007 and \$1,500,000 in FY2008.

Additional Information

During Governance discussions, the Authority and District agreed that a second crossing of the Peace River is necessary and one that connects to Charlotte County's system is desirable. The project originally submitted by the County went beyond just the crossing of the river and was not at the location indicated thus far in the Authority's Regional Loop Study (H036). Because of this, District staff was not in a position to recommend funding of the project as originally submitted. Since the original submittal, Authority and County staff met to discuss the appropriate location for the river crossing and what portion of the project that District funding assistance would be requested. As a result of their meetings, the Authority and Charlotte County have resubmitted the project as co-applicants and reduced their District funding request from \$13,489,625 to \$2,500,000. Funding for this project is contingent on the development of interlocal agreements between the Authority, Charlotte County and Punta Gorda for the distribution of water from the Shell Creek WTP. FY2008 Cooperative Funding Request - Charlotte County's FY2008 cooperative funding application requested an additional \$2,500,000 above what the Peace River Basin Board approved in FY2007. The revised application asks the District to fund half of the entire \$10 million pipeline project. Additionally the revised request goes beyond the emergency interconnect (river crossing) the District originally agreed to help fund.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	1,000,000	0	0	1,000,000
Project Funds Not Budgeted by the District					
Charlotte County Utilities	208,000	2,000,000	2,500,000	292,000	5,000,000
			Total		\$6,000,000

Status As Of: July 06, 2007

This project has been canceled and combined into project H069. The new expanded pipeline will provide not only an emergency interconnect but many additional regional benefits. The new expanded pipeline will be owned and operated by the Peace River/Manasota Regional Water Supply Authority.

Polk - Imp. BMPs Lake Belle and Tractor Lake

Project Type	Cooperative Funding
AOR(s)	Flood Protection
Basin(s)	Peace River
Cooperator(s)	Polk County Natural Resources
Project Manager	TURNER, DAWN
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a 1A priority. This project is implementation of BMPs. The BMPs will protect, enhance, and restore water quality and natural systems, while achieving flood protection. A senior administrator has provided confirmation that the County will budget the project for FY2008 funding. Implementation of BMPs includes design, development of construction documents, construction permitting, land acquisition, bidding and contractor selection, construction of the BMPs and construction engineering and inspection. Future funding may be required to complete construction of the BMPs.

Description

This is a multi-year funded project to perform the Implementation of Best Management Practices (BMPs) element of the District's Watershed Management Program (WMP) for the Lake Belle and Tractor Lake Watershed improvement area. The watershed covers an area of approximately 1.4 square miles in southeast Polk County. Proposed BMPs will address level of service deficiencies. Lake Belle and Tractor Lake are currently closed basins. In lieu of a Watershed Management Plan, the County retained Professional Engineering Consultants to prepare a feasibility study. The study entitled Lake Belle Drainage Outfall Evaluation was completed in May 2006, and includes a BMP alternative analysis, preliminary engineering, and cost estimates. The work performed by Professional Engineering Consultants did not include conceptual permitting. Recommended BMPs involve improvements to the stormwater management infrastructure including the installation of a gravity outfall from Tractor Lake to Lake Belle, and a pump outfall from Lake Belle to a borrow pit on the north side of Hunt Brothers Road. The borrow pit discharges to the south under Hunt Brothers Road to a second borrow pit. The second borrow pit discharges to the southeast under U.S. 27, then along the south side of Longleaf Business Park, through the 5R Ranch property to the south loop of the Peace Creek Canal. Maintenance activities will be performed, and improvements may be constructed within the conveyance system between the borrow pits and 5R Ranch. Easements will be obtained to construct the lake outfalls and conveyance system improvements. The pump system will be operated between storm events to recover storage volume above elevation 117.9 feet NGVD, which is 0.9 feet above the adopted low level guidance elevation for Lake Belle. The pump will not be used to discharge water during storm events. The Lake Belle Drainage Outfall Evaluation indicates high water levels in the borrow pits will be increased. Easements may be required over areas impacted by increased water levels to satisfy Environmental Resource Permit requirements.

Benefits

The Lake Belle Drainage Outfall Evaluation indicates high water levels and durations within Lake Belle and Tractor Lake will be reduced.

Costs

The projected cost for implementation of this project is \$980,000. The District's share is \$490,000, and the County's is \$490,000. In FY2007 the Peace River Basin funded \$265,000 and Polk County funded \$265,000. For FY2008, \$450,000 is proposed with the Basin Board contributing \$225,000 and the County contributing \$225,000. The estimated cost was obtained from the Lake Belle Drainage Outfall Evaluation, and is based upon preliminary engineering; the costs include the following tasks: design, development of construction documents, construction permitting, land acquisition, bidding and contractor selection, construction of the BMPs, construction engineering, and inspection. When each element is completed the project budget and scope may require refinement based upon the information developed. As a condition of the funding agreement, the District will not reimburse project costs until all necessary permits have been obtained and construction has commenced. Once construction has commenced, project costs will be reimbursed by the District on a 50/50 cost share basis. District funding amounts shown in the table include staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. Following three hurricanes in 2004 and four years of above average rainfall, Lake Belle experienced a dramatic rise in water levels (over 10 feet vertical). This resulted in the flooding of more than a dozen homes and a County road. The Polk County Commission expended tens of thousands of dollars to conduct emergency pumping to relieve the flooding, and determined that a long term solution is necessary. A cooperative funding expenditure agreement with Polk County will be developed as a multi-year funded project contingent on the approval of future funding to complete the Implementation of BMPs. This will require the submission of a cooperative funding request each fiscal year until the project is completed. If approved, this project will be ranked as a 1A project in future fiscal years. The County will manage the project, where the District project manager must approve any agreements

to accomplish project tasks. The District is cooperating with FEMA to modernize the flood insurance rate maps (FIRMs) in Polk County. Information developed with this project will be used to update the FIRMs representing this watershed.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	311,924	189,930	0	501,854
Project Funds Not Budgeted by the District					
Polk County	0	265,000	225,000	0	490,000
			Total		\$991,854

Critical Project Milestones

1. Cooperative Funding Expenditure Agreement

	Projected	Amended	Actual
Cooperative Funding Agreement Executed	10/17/06		10/23/06
District Logo on Plans	12/19/07		
Design and Permitting Complete	12/19/07		
Bidding and Contractor Selection complete	3/31/08		
Land acquisition complete	3/31/08		
Commence Construction	4/30/08		
District Logo on Construction signs	4/30/08		
Complete Construction	4/30/09		
Contract Expiration	12/31/11		

2. Consultant Services Agreement

Design and Permitting Complete	12/19/07		
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Status As Of: July 05, 2007

The Cooperative Funding Agreement has been executed, and Notice to Proceed was provided to Polk County on October 23, 2006. No invoices have been received to date.

Polk - Imp. BMPs Saddlebag Lake

Project Type	Cooperative Funding
AOR(s)	Flood Protection
Basin(s)	Peace River
Cooperator(s)	Polk County Natural Resources
Project Manager	TURNER, DAWN
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a 1-A priority. This project is implementation of BMPs. The BMPs will protect, enhance, and restore water quality and natural systems, while achieving flood protection. A senior administrator has provided confirmation that the County will budget the project for FY2008 funding. Implementation of BMPs includes design, development of construction documents, construction permitting, land acquisition, bidding and contractor selection, construction of the BMPs and construction engineering and inspection. Future funding may be required to complete construction of the BMPs.

Description

This is a multi-year funded project to perform the Implementation of Best Management Practices (BMPs) element of the District's Watershed Management Program (WMP) for the watershed contributing to Saddlebag Lake, Lake Thomas, Parks Lake, Cypress Lake, Little Gum Lake, Big Gum Lake and Stock Lake. The watershed covers an area of approximately 9.5 square miles in southeast Polk County. Proposed BMPs will address level of service deficiencies. Saddlebag Lake and Thomas Lake are currently closed basins. In lieu of a Watershed Management Plan, the County retained Professional Engineering Consultants to prepare a feasibility study. The study entitled Saddlebag Lake Drainage Outfall Evaluation was completed in May 2006, and includes a BMP alternative analysis, preliminary engineering, and cost estimates. The work performed by Professional Engineering Consultants did not include conceptual permitting. Recommended BMPs involve improvements to the stormwater management infrastructure including the construction of outfall structures and conveyance systems connecting Saddlebag Lake to Lake Thomas, and Lake Thomas to Cypress Lake. Conveyance system improvements will also be constructed between Parks Lake and Cypress Lake, and between Cypress Lake and Little Gum Lake. Implementation of the BMPs will allow water levels within Saddlebag Lake to be controlled at an elevation of 101.5 feet NGVD, which is 0.5 feet below the adopted low level guidance elevation for Saddlebag Lake, and only 0.5 feet above the adopted extreme low elevation. Lake Thomas will be controlled at the adopted low level guidance elevation of 97.0 feet NGVD. Improvements to the conveyance system between Parks Lake and Cypress Lake will control Parks Lake at the adopted low level guidance elevation of 100.0 feet NGVD. Improvements between Cypress Lake and Little Gum Lake will control Cypress Lake at elevation 95.5 feet NGVD, which is 0.5 feet above the adopted low level guidance elevation for Cypress Lake. Easements will be obtained to construct the lake outfalls and conveyance system improvements. The Saddlebag Lake Drainage Outfall Evaluation indicates high water levels in Parks Lake, Cypress Lake, Little Gum Lake, Big Gum Lake and Stock Lake will be increased for one or more design storm events. Easements may be required over areas impacted by increased water levels to satisfy Environmental Resource Permit requirements.

Benefits

The Saddlebag Lake Drainage Outfall Evaluation indicates high water levels and durations within Saddlebag Lake and Lake Thomas will be reduced.

Costs

The projected cost for implementation of this project is \$2,100,000. The District's share is \$1,050,000, and Polk County's is \$1,050,000. The projected cost was obtained from the Saddlebag Lake Drainage Outfall Evaluation, and is based upon preliminary engineering. The Peace River Basin is funding \$525,000 and Polk County is funding \$525,000 for FY2007. With FY2007 funding, the Implementation of BMPs will begin, and will include the following tasks: design, development of construction documents, construction permitting, land acquisition, bidding and contractor selection, and the initiation of construction. \$1,050,000 in FY2008 funding (\$525,000 Peace River Basin, and \$525,000 Polk County) has been requested for the completion of land acquisition, construction of the BMPs, construction engineering, and inspection. When each task is completed the project budget and scope will be refined based on the information developed. As a condition of the funding agreement, the District will not reimburse project costs until all necessary permits have been obtained, and construction has commenced. Once construction has commenced, project costs will be reimbursed by the District on a 50/50 cost share basis. District funding amounts shown in the table include staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. Following three hurricanes in 2004 and four years of above average rainfall, water levels in Saddlebag Lake and the Lake Thomas increased dramatically. This resulted in the flooding or abandonment of more than 300 homes. Roads and a domestic wastewater treatment plant were impacted, jeopardizing several hundred additional homes. The Polk County Commission expended hundreds of thousands of dollars to conduct

emergency pumping to relieve the flooding, and determined that a long term solution is necessary. A cooperative funding expenditure agreement with Polk County will be developed as a multi-year funded project contingent on the approval of future funding to complete the Implementation of BMPs. This will require the submittal of a cooperative funding request each fiscal year until the project is completed. If approved, this project will be ranked as a 1A project in future fiscal years. The County will manage the project, where the District project manager must approve any agreements to accomplish project tasks. The District is cooperating with FEMA to modernize the flood insurance rate maps (FIRMs) in Polk County. Information developed with this project will be used to update the FIRMs representing this watershed.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	529,677	529,930	0	1,059,607
Project Funds Not Budgeted by the District					
Polk County	0	525,000	525,000	0	1,050,000
			Total		\$2,109,607

Critical Project Milestones

1. Cooperative Funding Expenditure Agreement

	Projected	Amended	Actual
Executive Cooperative Funding Agreement	11/30/06		
District Logo on Plans	3/19/08		
Design & Permitting Complete	3/19/08		
Bidding and Contractor Selection complete	6/30/08		
Land acquisition complete	6/30/08		
District Logo on Construction signs	7/31/08		
Commence Construction	7/31/08		
Complete Construction	7/31/09		
Contract Expiration	12/31/11		

2. Consultant Services Agreement

Design and Permitting Complete	3/19/08		
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Status As Of: July 05, 2007

The Cooperative Funding Agreement was executed, and Notice to Proceed was issued to Polk County on December 5, 2006. No invoices have been received to date.

Hardee - WMPlan Horse Creek

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s) Hardee County
Project Manager LETASI, SCOTT
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a 1A priority. The project was initiated with FY2007 funding. This project will perform elements of the Watershed Management Program. Completing elements of the District's Watershed Management Program is a District strategic priority, which provides an implementation framework to manage the water resource. The program assists local governments the regulation of land use, and stormwater management within a specific watershed.

Description

This is a multi-year funded project to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the Horse Creek Watershed. The watershed covers an area of approximately 124 square miles and is located in Hardee County. The watershed faces flood damage and water quality issues. With FY2007 funding the work on the Horse Creek Watershed Evaluation as one element. Watershed Management Plan elements for Horse Creek will begin, and should be completed for approximately 20 square miles of the north most portion of the Watershed. Future funding will be required for the Watershed Evaluation of the rest of this watershed and other watersheds, Watershed Management Plan for Horse Creek to complete the survey, watershed modeling development, floodplain analysis, LOS, surface water resource assessment, and alternate analysis of BMPs.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management.

Costs

The total estimated cost of the project is \$100,000, of which the District's share is \$75,000 from Peace River Basin. The County will contribute \$25,000 in FY2007. The District's share from the Peace River Basin is \$75,000 for FY2007. Hardee County is a REDI Community and will contribute 25% of the project total cost. The County applied for FY2008 Cooperative Funding in the amount of \$100,000 to continue the WMPlan in the Horse Creek Watershed. The County would contribute \$25,000 and a 75% match of \$75,000 would be the Peace River Basin Board's share in FY2008.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. A cooperative funding revenue agreement with Hardee County will be developed as a multi-year funded project contingent on the approval of future funding to complete the WMP elements through the Watershed Management Plan. This is a multi-year funded project that will require a cooperative funding request each fiscal year until completed. If approved, this project will be ranked as a 1A project in future fiscal years. The County will manage the project, where the District project manager must approve any agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	79,363	78,103	75,000	232,466
District Budgeted - Outside Revenue					
Hardee Co - Watershed Mgmt Plan (L679)	0	25,000	25,000	75,000	125,000
			Total		\$357,466

Critical Project Milestones	Projected	Amended	Actual
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1. Critical Project Milestones

County Agreement Executed	7/1/07	5/1/07
Consultant Agreement Executed	10/1/07	
Notice to Proceed	10/15/07	

2. Digital Terrain Model

Digital Terrain Model	11/1/07	
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3. Watershed Evaluation

Begin Watershed Evaluation	12/1/07	
Completion of the Watershed Evaluation	2/1/08	

4. Watershed Management Plan

Begin Watershed Management Plan	2/15/08	
Complete Watershed Management Plan	8/1/08	

Status As Of: July 05, 2007

Status History: Several meetings between District staff and Hardee County staff were performed in November and December 2006 to prioritize the watersheds that will be studied in detail as part of the watershed management program. The County and District are coordinating this project with the FEMA MAP MOD project (M104). Remaining FEMA funds from the MAP MOD project will be combined with this project's funding to accomplish a Watershed Management Plan for a larger part of the priority watershed select by the County. A meeting between the District and the County on March 16, 2007 identified Horse Creek as the priority watershed. Due to the current budget constraints, a watershed management plan can not be performed in the entire 124 square miles of the watershed. The County and District agreed to start in the northern most subbasins of the watershed and work to the south as future funding is available. A Cooperative Funding Agreement between the District and Hardee County was executed on May 1, 2007. Status Current: The project development of this project has been completed. An agreement between a engineering consultant and the District has been drafted and should be executed by the end of July. Consultant will start the digital terrain model in August 2007 as the first task of the project.

Bartow - WMPlan Bartow

Project Type	Cooperative Funding
AOR(s)	Flood Protection
Basin(s)	Peace River
Cooperator(s)	Bartow
Project Manager	TURNER, DAWN
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a 1A priority. FY2008 funding will be used to conduct field reconnaissance of an estimated 1700 hydraulic features, and complete final project deliverables. Flooding within urbanized areas may be the result of insufficient capacity. A detailed inventory will be conducted to evaluate capacity and identify maintenance needs. The information will be included in the District's GIS database, and be available for use in the development of maintenance and capital improvement plans for the City, and for surface water modeling of the Peace River watershed.

Description

This is a multi-year funded project to perform the Watershed Evaluation element of the District's Watershed Management Program (WMP) for the Bartow watershed. The Bartow watershed is located within the upper Peace River watershed, and covers an area of approximately 40 square miles in Polk County. The Digital Topographic Information element, and the hydrologic feature inventory, identification of survey needs, and surface water resource inventory and approach development tasks of the Watershed Evaluation have already been completed as part of the Upper Peace River Resource Development (H024) project. Portions of the Bartow watershed are highly urbanized, and the City would like to perform an inventory of the stormwater infrastructure that is much more detailed than the one performed for the upper Peace River. With FY2007 funding, the following Watershed Evaluation tasks will be completed for the Bartow watershed: data evaluation and assembly, hydraulic feature inventory, desktop reconnaissance, preliminary junction/reach network development, and immediate maintenance evaluation. FY2008 funding has been requested to complete the field reconnaissance, and deliverables tasks. A Watershed Management Plan is being prepared for the upper Peace River as part of the Upper Peace River Resource Development project. The plan will include the Bartow watershed, but will not utilize the same level of detail for the infrastructure in the urbanized areas. If the City desires a more detailed level of service determination and best management practices alternative analysis for the urbanized areas, additional funding will be required. The District is cooperating with FEMA to modernize the flood insurance rate maps (FIRMs) in Polk County. Information generated through the Bartow Watershed Evaluation and the Upper Peace River Watershed Management Plan will be used to update the FIRMs representing the Bartow area.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) with their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies; and 2) provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management through the Total Maximum Daily Loads (TMDL) process for their National Pollution Discharge Elimination System (NPDES) permit requirements.

Costs

The total funding amount for this project is \$320,000, of which the District's share is \$160,000. The City will contribute \$160,000. For FY2007, \$160,000 is appropriated in the Peace River Basin's budget with a revenue from the City of Bartow for \$80,000. When each element is completed the project budget and scope may require refinement based on the information gathered. In FY2008, \$160,000 is appropriated in the Peace River Basin's budget with a revenue from the City of Bartow for \$80,000. FY2008 funding will be used to complete field reconnaissance of an estimated 1700 hydraulic features, and complete final project deliverables.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. A cooperative funding revenue agreement with the City will be developed as a multi-year funded project contingent on the approval of future funding to complete the Watershed Evaluation, and the following Watershed Management Plan tasks: level of service determination and BMPs alternatives analysis. This is a multi-year funded project that will require a cooperative funding request each fiscal year until completed. If approved, this project will be ranked as a 1A project in future fiscal years. The District will manage the project and enter into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	85,800	86,120	0	171,920
District Budgeted - Outside Revenue					
Polk Co - Bartow Watershed Mgmt Plan (L680)	0	80,000	80,000	0	160,000
			Total		\$331,920

Critical Project Milestones

1. Revenue Agreement

	Projected	Amended	Actual
Revenue Agreement to Contracts for approval	9/22/06		
Revenue Agreement mailed to cooperater for signature	10/13/06		10/9/06
Revenue Agreement Executed	10/31/06		10/24/06
Revenue Agreement Expiration	1/31/09		

2. Consultant Services Agreement

	Projected	Amended	Actual
Consultant Services Agreement to Contracts for approval	9/22/06		
Consultant Services Agreement mailed to Ardaman for signature	10/13/06		
Consultant Services Agreement Executed	10/31/06		12/12/06
Work Order #1 issued to Ardaman	10/31/06		1/3/07
Consultant Services Agreement Expiration	12/31/08		

Status As Of: July 05, 2007

The Cooperative Funding and the Consultant Services Agreement have been executed. Notice to Proceed was provided to Ardaman and Associates on January 3, 2007, and a project kickoff meeting was held on February 20, 2007. Data collection activities have been completed. As part of that work, Ardaman staff coordinated with City staff to review and copy pertinent infrastructure data from City project and permit files. Status History: The City is highly urbanized, and City staff would like to perform a very detailed inventory of the stormwater infrastructure. As part of the Watershed Evaluation, the inventory information will be also linked to GIS. At this level of detail, cost estimates indicate the \$320,000 of anticipated project funds will be sufficient to complete the Watershed Evaluation, but not the Watershed Management Plan. The on-going Upper Peace River Resource Development (H024) project involves the development of a Watershed Management Plan that will include the City of Bartow; but will not utilize the same high level of detail. City staff indicate the level of detail that will be used for the Upper Peace River Resource Development project will meet their needs related to the identification of flood prone areas, and the development of a Watershed Management Plan. In order to stay within the approved project budget, the scope of work for this project will include only the Watershed Evaluation. The Watershed Management Plan element will be performed through the Upper Peace River Resource Development (H024) project. Data developed through the Bartow Watershed Evaluation, and the Upper Peace River Resource Development projects will be used to update the FIRMs representing the Bartow watershed. No invoices received to date.

FYN Polk County

Project Type	Cooperative Funding
AOR(s)	Water Supply, Water Quality, Natural Systems
Basin(s)	Alafia River, Hillsborough River, Peace River
Cooperator(s)	Polk County
Project Manager	DURELL, SYLVIA
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as high priority. The Polk County FYN Program continues to offer significant value to the District, especially considering that FYN programs have documented both knowledge gain and behavior change within their targeted audiences.

Description

The Polk County Florida Yards & Neighborhoods (FYN) program provides education on Florida-friendly landscaping primarily to homeowners but also includes efforts toward students, builders/developers and irrigation and landscape professionals. Outreach efforts will include workshops, one-on-one interactions, newspaper articles, electronic media, school visits and distribution of printed materials.

Benefits

Approximately 53,000 people receive education either on a personal basis or through materials distribution each year. Mass media is also used extensively. Education addresses three of the Basin Boards and the District's Comprehensive Watershed Management initiative priority concerns -- water quality, water supply, natural systems, flood protection. Education promotes widespread adoption of environmental landscaping best management practices to reduce environmental damage from improper landscape design, installation and maintenance.

Costs

The total cost for FY2008 program is \$113,290, which includes an approximately 11% increase, seven percent of which is designated toward the FYN coordinator's salary and benefits. This is the first time the county has contributed funds toward the coordinator's salary and benefits. The District's proposed share, \$50,980, includes less than one-half percent increase and supports the FYN coordinator's salary and benefits, educational materials, postage, advertising and travel and training expenses. Based on reaching 53,000 residents of Polk County, the cost of outreach is approximately \$2.10, depending on the type of outreach provided. The District's total will be shared by three Basin Boards. The Alafia River Basin Board is requested to approve 5,608 (11%), Hillsborough River Basin Board is requested to approve \$7,647 (15%) and Peace River Basin Board is requested to approve \$37,725 (74%). Budget lines below include costs for staff to manage the project.

Additional Information

The District has supported the Polk County FYN Program since 2002. Education is based on the nine Florida-friendly landscaping principles that were created by the University of Florida/Institute of Food and Agricultural Sciences (UF/IFAS) for the FYN program: Right Plant, Right Place, Water Efficiently, Fertilize Appropriately, Mulch, Attract Wildlife, Manage Yard Pests Responsibly, Recycle, Reduce Stormwater Runoff and Protect the Waterfront. In 2006, the District project manager for Florida-friendly landscaping created a five-year plan for the District's support of the FYN outreach. Part of the plan includes education of county administrators on the value of the FYN outreach with the goal of more proportionate financial support of the programs.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	17,602	5,563	6,374	0	29,539
013 Hillsborough River Basin	19,041	7,587	8,413	0	35,041
020 Peace River Basin	164,645	37,426	40,069	0	242,140
Project Funds Not Budgeted by the District					
Polk County	214,046	50,576	62,310	0	326,932
UF/IFAS	22,000	0	0	0	22,000
			Total		\$655,652

Critical Project Milestones

	Projected	Amended	Actual
FY2007 Purchase order created	10/1/06		10/1/06
FY2007 First Task Report:	1/31/07		1/31/07
FY2007 Second Task Report:	4/30/07		4/20/07
FY2007 Third Task Report:	7/30/07		

FY2007 Project Complete:

10/31/07

Status As Of: June 22, 2007

The following outreach was accomplished by the Polk County FYN coordinator, Anne Yasalonis, in the second task period of FY07: 15 programs/workshops with 510 contacts, 3 exhibits with 1,500 contacts, 1,278 phone consultations/letters/emails; 1,565 pieces of literature distributed; 5 youth activities with 460 participants, 4 yard recognitions, 2 contacts with homeowner associations/builders/developers, 11 newsletter articles with 847,257 recipients, 1 media activity and 11,141 web site hits. Workshop topics include: how to create a Florida-friendly yard, Florida gardening, rain barrels, watering efficiently and using fertilizers and pesticides appropriately. A total of 170 volunteer hours were donated to the program. Yasalonis helped coordinate a presentation by the District's regional builder & developer landscape education specialist at the Polk County Builders Association on June 6. Yasalonis will be the local contact for builders who want to incorporate Florida-friendly landscaping into their new building projects. The Florida-friendly landscaping demonstration site at the new Polk Outpost 27, a tourism center located at the intersection of Interstate 4 and Highway 27, has been completed. Educational programs will be held at the Outpost with the plan to use the landscape as an educational tool.

Avon Park - WMPlan Avon Park

Project Type	Cooperative Funding
AOR(s)	Flood Protection, Water Quality
Basin(s)	Peace River
Cooperator(s)	Avon Park
Project Manager	FRIES, GEORGE
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a high priority. Completing elements of the District's Watershed Management Program is a District strategic priority for managing the water resource, and providing information to local governments to address land use changes and stormwater management issues within a specific watershed. Avon Park, located in Highlands County, is a REDI community and is seeking a reduction of the standard 50% funding match to one where the Peace River Basin Board will fund 75% of the project costs and the city will fund 25%. A senior administrator has provided confirmation that the city will budget the project for FY2008 funding. The city has ranked this project first of 2 submitted for cooperative funding.

Description

This is a multi-year funded project to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the City of Avon Park Watershed. The watershed covers an area of approximately 16 square miles and is located in northwest Highlands County. Issues in the watershed include unabated, untreated runoff into lakes Isis, Verona, Tulane, Lelia and Lotela causing degradation of the water quality within the lakes. Since the project began in FY2004 the city has experienced considerable growth in the form of annexation. With prior years funding the Topographic Information, Watershed Evaluation and Watershed Management Plan for the then existing incorporated area of the city were completed. With FY2007 funding the work on the Topographic Information, Watershed Evaluation and Watershed Management Plan elements for the additional incorporated land north of the city center began and should be completed. **With FY2008** funding the work on the Topographic Information, Watershed Evaluation and Watershed Management Plan elements for the additional incorporated land north of the Avon Park Airport and west of the city center will begin and should be completed.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) with their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies, and 2) provides a geodatabase and projected results from watershed model simulations for floodplain management and water quality management.

Costs

The total budgeted amount for this project, including the completed FY2004 work, is \$298,000 of which the District's multi-year share is \$223,500. Avon Park, located in Highlands County, is a REDI community and is seeking a reduction of the standard 50% funding match to one where the Peace River Basin Board will fund 75% of the project costs and the city will fund 25%. For FY2008 \$100,000 is appropriated in the Basin Board's budget with revenue of \$25,000 from the City of Avon Park. When each element is completed the project budget and scope may require refinement based on the information gathered. The District funding amounts shown in the table include staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of BMPs, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. A cooperative funding revenue agreement with the City of Avon Park has been developed. The District is managing the project and has entered into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	84,606	79,249	80,008	0	243,863
District Budgeted - Outside Revenue					
Avon Park - Water Mgmt Program (L152)	25,000	24,500	25,000	0	74,500
			Total		\$318,363

Critical Project Milestones	Projected	Amended	Actual
1. Critical Project Milestones			
District logo will appear on all reports	9/8/04		8/23/04
2. Cooperator Agreement			
Draft Agreement to Management Services	7/15/03		7/15/03
Draft Agreement Returned from Management Services	7/28/03		7/28/03
Peace River Basin Board Approval of Agreement	8/15/03		8/15/03
Governing Board Approval of Agreement	8/26/03		8/26/03
Cooperator Agreement Executed	10/1/03		10/1/03
3. Consultant Agreement			
Consultant Agreement Executed	2/8/04		2/8/04
Consultant Notice to Proceed Work Order #1 DTI & WE)	2/16/04		2/16/04
Element 1, Digital Topographic Information Commence	2/16/04		2/16/04
Element 2, Watershed Evaluation Commence	4/1/04		4/1/04
Element 1, Digital Topographic Information Complete	5/8/04		5/3/04
Element 2, Watershed Evaluation Complete	9/8/04	3/15/05	11/19/04
4. 1st Amendment to Consultant Agreement (no cost time ext)			
Element 3, Watershed Management Plan Commence	10/30/04		3/15/05
Amendment Executed (including Work Order #2 WMP)	4/14/05		4/14/05
Element 3, Watershed Management Plan Complete	8/8/05	1/15/06	8/18/06
Consultant Agreement Expiration	8/8/05	2/8/06	2/8/06
Cooperator Agreement Expiration	2/16/06		2/16/06
5. Cooperator Agreement (Annexed Land)			
FY2007 Funds Encumbered			10/13/07
Draft Agreement to Contracts Section	7/31/06		7/31/06
Draft Agreement Returned from Contracts Section	8/10/06		8/10/06
Cooperator Agreement Executed	10/1/06		8/27/06
6. Consultant Agreement (Annexed Land)			
Consultant Agreement Executed	2/28/07		11/6/06
Consultant Notice to Proceed	3/1/07		11/14/06
Element 1 Digital Topographic Information Commence	3/1/07		
Element 2 Watershed Evaluation Commence	7/1/07		12/15/06
Element 1 Digital Topographic Information Complete	9/1/07		
Element 3 Watershed Management Plan Commence	9/1/07		
Element 2 Watershed Evaluation Complete	11/1/07		
Element 3 Watershed Management Plan Complete	9/1/08		
7. Contract Completion (Annexed Land)			
Consultant Agreement Expiration	12/31/08		
Cooperator Agreement Expiration	12/31/08		

Status As Of: July 05, 2007

Status History: Staff prepared the Cooperative Funding Agreement which was approved by the Boards and signed by the Executive Director on 10/01/2003. The District is the lead party to the Agreement and is responsible for administration of the contract with the consultant. The kick off meeting was held on February 24, 2004. The city requested that the scope of work be revised to incorporate several square miles of land that the City planned to annex. The consultant prepared a revised scope of services which showed that the additional work was substantially beyond the budget available for the project and this additional work would not be done at that time. Preparing a revised scope of work and budget and submitting it to the town for review and comment took three months which was not anticipated in the original schedule. This, in turn, delayed the completion of the project beyond the anticipated project completion date shown in the consultant services agreement. A contract amendment to extend the contract completion date was executed. Work Order #2, for the Watershed Management Plan (WMP), was executed and work began. The final WMP for the then existing incorporated areas of the City was submitted and approved. The city applied for cooperative funding for FY2007 to continue the WMP in newly annexed areas of the city. A revenue agreement to incorporate the FY2007 funding to complete a WMP for the newly annexed land north of the existing city has been executed by both parties. The District continues to be the lead party in this agreement. The project kick off meeting was held on 12/13/2007. The City has applied for FY2008 cooperative funding to have a WMP completed in additional annexed land north of the Avon Park Municipal Airport. Current Status: Work on the Digital Topographic Information was delayed because delivery of the LiDAR data from the District was several months behind schedule. The consultant is working on elements of the Watershed Evaluation.

FYN Charlotte, Manatee, Sarasota counties

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality, Natural Systems
Basin(s) Peace River, Manasota
Cooperator(s) Charlotte County, Manatee County, Sarasota County, Charlotte Harbor National Estuary Program, Sarasota Bay Estuary Program
Project Manager DURELL, SYLVIA
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as high priority. The FYN Builder/Developer Program in Charlotte, Manatee and Sarasota counties continues to offer significant value to the District, especially considering that FYN programs have documented both knowledge gain and behavior change within their targeted audiences. The education on Florida-friendly landscaping best management practices presented to builders, developers and landscape professionals is an important part of the District's efforts to change water-use and water-protection behaviors.

Description

The Florida Yards & Neighborhoods (FYN) Program in Charlotte, Manatee and Sarasota counties provides education on Florida-friendly landscaping primarily to builders, developers and landscape and irrigation professionals. Outreach efforts will include conferences, workshops, one-on-one interactions, newspaper articles, electronic media and distribution of printed materials. Charlotte, Manatee and Sarasota counties lie within the largest and fastest urbanizing portion of the Southern Water Use Caution Area.

Benefits

The demand for water continues to increase with the expansion in land development, building construction and increased population. Recognizing that the majority of decisions concerning new landscapes are made by builders, developers, landscape and irrigation professionals, this program benefits water resources by promoting the use of the nine Florida Yards & Neighborhoods principles to that audience. It achieves its goals primarily through consultation with builders, developers, landscape and irrigation professionals and county officials. Much of the success of this program involves extensive one-on-one situations to nurture and "sell" a professional on the program's benefits. Outreach through personal meetings and workshops averages about 5,000 contacts per year.

Costs

The total cost of the project for FY2008 is \$157,000, with the District's share requested to be \$70,500, representing no increase from the FY2007 funding. District funds support the contracted outreach coordinator's salary, travel, outreach materials and workshop expenses. For FY2008, the Manasota Basin Board is requested to approve project costs of \$53,125 (75%) and Peace River Basin Board of \$17,375 (25%). Budget lines below include costs for staff to manage the project. The cooperators' match represents dollar value for in-kind contributions as follows: Charlotte County, \$15,000; Manatee County, \$40,000; and Sarasota County, \$5,000. In-kind support includes office space and supplies, administrative and supervisory support, a computer and telephone system. In addition, cash contributions include \$1,000 from Sarasota County, \$6,500 from the Sarasota Bay National Estuary Program and \$3,000 from the Charlotte Harbor National Estuary Program. These funds will be used for projects, educational conferences, printing, displays and promotional items. At this time, FY2008 budget cuts at the three counties will not allow further dollar contributions to the program. Although the FY08 proposal was originally submitted with a cost increase but no increase in outreach, at the project manager's request, the funding request was returned to FY07 levels.

Additional Information

The District has supported education outreach to builders and developers in Sarasota County through the FYN Program since 2002. In FY2005, that outreach was expanded to Charlotte and Manatee counties. Education is based on the nine Florida-friendly landscaping principles that were created by the University of Florida/Institute of Food and Agricultural Sciences for the FYN program: Right Plant, Right Place, Water Efficiently, Fertilize Appropriately, Mulch, Attract Wildlife, Manage Yard Pests Responsibly, Recycle, Reduce Stormwater Runoff and Protect the Waterfront. Recognition of the Southwest Florida Water Management District and Manasota and Peace River Basin Boards is required as a condition of District funding. In 2006, the District project manager for Florida-friendly landscaping created a five-year plan for the District's support of the FYN outreach. Part of the plan includes education of county administrators on the value of the FYN outreach with the goal of more proportionate financial support of the programs.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	38,375	17,375	20,492	0	76,242
021 Manasota Basin	116,625	53,125	54,718	0	224,468

Project Funds Not Budgeted by the District

Charlotte County	15,000	15,000	15,000	0	45,000
Charlotte Harbor National Estuary Program	3,000	3,000	3,000	0	9,000
Manatee County	20,000	35,000	40,000	0	95,000
Sarasota Bay Estuary Program	40,000	6,500	6,500	0	53,000
Sarasota County	86,000	11,000	6,000	0	103,000
			Total		\$605,710

Critical Project Milestones	Projected	Amended	Actual
FY2007 Purchase Order Opened	10/1/06		10/1/06
FY2006 Fourth Advisory Committee Meeting	10/19/06		10/19/06
FY2007 First Advisory Committee Meeting:	1/18/07		1/18/07
FY2007 First Task Report:	1/31/07		1/31/07
FY2007 Second Advisory Committee Meeting:	4/19/07		4/19/07
FY2007 Second Task Report:	4/30/07		4/19/07
FY2007 Third Advisory Committee Meeting:	7/24/07		
FY2007 Third Task Report:	7/30/07		
FY2007 Fourth Advisory Committee Meeting:	10/24/07		
FY2007 Fourth Task/Final Report:	10/31/07		
FY2007 Project Complete:	10/31/07		

Status As Of: June 22, 2007

Michelle Atkinson was hired in April as the FYN Builder & Developer Coordinator for Charlotte, Manatee and Sarasota counties. The Water-Wise Recognition Program was conducted during this task period for the 2007 Manatee/Sarasota Counties' Parade of Homes event. Twelve entries were judged. Winners are Pruett Builders in Sarasota County for its Cordoba model and Fidelity Homes in Manatee County for its Mar A Lago II model. Waterford Homes of Venice will be developing their first green community in Charlotte County. The project, Mariners Landing, will be Florida Green Building Coalition certified and the developer will use Florida-friendly landscaping. A meeting was held with the landscape designer of Taylor Woodrow Homes regarding a partially built development project that was sold to a new developer. The developer will include Florida-friendly landscaping with other "green" building practices on the project. The topic of "Promoting Florida-Friendly Landscaping in New Communities" was presented to the Manasota Key Homes Association. The group is interested in asking the Charlotte County Board of County Commissioners to require all new development to use Florida-friendly landscaping practices. Lee Wetherington's Willow Bend community was the subject of a photo shoot for an article in the UF Law Clinic's newsletter, Impact. Mr. Wetherington is interested in using the new FYN Community Covenants and Restrictions documents developed by UF's law department. Mr. Wetherington is also very interested in ways to educate homeowners on appropriate maintenance of the community's Florida-friendly landscaping.

Rotunda ASR Well Conversion for Reuse Water

Project Type	Cooperative Funding
AOR(s)	Water Supply, Water Quality
Basin(s)	Peace River
Cooperator(s)	Charlotte County Utilities
Project Manager	ANTOINE, TAMMY
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a high priority. This is a multiyear project in its third year of funding. This project is ranked as a high priority because it will allow for additional reclaimed water storage to meet dry period demands. This will offset potable demands of the Peace River/ Manasota Regional Water Supply Authority for irrigation and help meet goals of the SWUCA recovery strategy. This project is within the District's statutory authority to fund and is not the result of a permit requirement or enforcement action, and is potentially eligible for state funding through the Water Protection and Sustainability Program.

Description

This ongoing, multiyear, alternative water supply project consists of a feasibility study to evaluate the alternatives for installation of a reclaimed water ASR and, if feasible, the conversion of one (1) existing potable water supply well located in the Rotunda area to an Aquifer Storage and Recovery (ASR) well for reuse. Upon the successful completion of the feasibility study and favorable outcome of the preliminary permitting, Charlotte County Utilities will proceed with the design, final permitting, construction and testing of the recommended ASR well system and associated piping to directly connect the ASR well to the reclaimed water transmission system. The ultimate goal of the project is to create an underground storage reservoir for reuse water produced initially by the Rotunda Wastewater Treatment Facility (WWTF), and eventually for the combined reuse water in the west county and possibly central county areas. FY2008 Funding Request: The County submitted an application requesting a total District funding amount of \$1,500,000 for this ongoing multiyear project. FY2008 will be the third year of funding. The County is also requesting an overall project increase from \$870,000 to \$3,000,000. Charlotte County completed an ASR Reuse Feasibility Study and submitted an application for construction of a Class V Well at the Rotunda site to the Department of Environmental Protection. The eligible, estimated cost of the project is \$3,000,000. The District is requested to reimburse CCU for up to 50 % of the eligible project costs up to a maximum of \$1,500,000. Of the total project cost of \$3,000,000, approximately 73% (\$2,200,000) is expected to be needed for construction, and the remainder (\$800,000) for design and administration. The Peace River Basin Board encumbered \$100,000 in FY2005 and \$380,450 in FY2007, of which \$90,900 is revenue to be provided by the Water Protection Sustainability Program. Due to time constraints, no funding requests were made in FY2006. District funding of the project is requested in FY2008 in the amount of \$200,000 and in future years of \$865,000. This amount is solely for construction, so a portion of the amount requested in FY2008 is eligible for WPSP funding.

Benefits

This new proposed project helps to satisfy the short term need to provide wet weather storage space for reuse water, beyond what currently exists at the Rotunda Water Reclamation Facility, which is minimal. The longer term need served by this project is to provide regional storage capacity for excess wet weather reuse for the entire west county area and ultimately for the central portion as well, and facilitate the eventual interconnection of the central and west county reuse systems to provide adequate reuse water for the entire region.

Costs

The total project cost for the feasibility study and well conversion is estimated to be \$870,000. The Peace River Basin approved \$100,000 in its FY2005 budget, and \$380,450 in FY2007, of which \$90,900 is expected to be provided by the Water Protection Sustainability Program. No cost-benefit is calculated for this project, as it provides additional storage.

Additional Information

Charlotte County Utilities (CCU) previously completed a feasibility study indicating that such a conversion would be feasible. The county is currently cooperative with the District on two projects to interconnect its three major WWTF's. The Charlotte County Regional Reclaimed Water Expansion project (H027) will construct a major portion of the necessary transmission piping to interconnect Charlotte County's East Port and West Port WWTF's. The Charlotte County West Port Regional Reuse project (K891) will interconnect Charlotte County's West Port WWTF and Rotunda WWTF. CCU's current demand for reclaimed water exceeds 2,000,000 gallons per day (gpd), but the facility can only produce up to 800,000 gpd and supplemental surface water sources are being utilized to make up for the additional demand (1,200,000 gpd). This is a stand-alone project; however, upon successful implementation of the single well conversion, it is expected that two more well conversions will be completed as a second phase of this project. Of the total project cost of \$870,000, approximately 75 percent (\$654,500) is expected to be needed for construction, and the remainder (\$215,500) for design and administration. FY2008 Additional Info: The project was initially estimated at \$870,000 because it was considering the possibility of converting an existing potable well to an ASR well. However, upon completion of the feasibility study it was determined that the conversion of the potable well would not work. Factors included the capacity and recovery rate of the well and the current DEP stance on permitting ASR wells. Thus, it was determined a new well would be constructed at

Rotunda ASR Well Conversion for Reuse Water

Rotunda in a non-drinking water standard zone (greater than 10,000 tds). Charlotte County Utilities will proceed with the design, final permitting, construction and testing of the recommended ASR well system and associated piping to directly connect the ASR well to the reclaimed water transmission system. The predicted recovery rate for the ASR well is expected to be between 70% and 90% after the buffer zone is achieved. The amount of water to be stored and delivered (including the buffer zone) upon the ASR well being placed into service is expected to be between 100 to 150 million gallons and 1,000,000 gpd, respectively. It is anticipated that design of the project will commence by April 1, 2007. Construction of the project is estimated to start in April 2008 and an operational permit be obtained by April 2011.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	104,541	292,372	164,710	865,000	1,426,623
District Budgeted - Outside Revenue					
Water Protection & Sust T.F. (Alternative Wtr)	0	90,900	80,000	0	170,900
Project Funds Not Budgeted by the District					
Charlotte County	349,550	0	200,000	865,000	1,414,550
			Total		\$3,012,073

Critical Project Milestones	Projected	Amended	Actual
Draft Agreement to Contracts Administration	9/1/05		9/8/05
Contract Executed	11/30/05		1/31/06
Design Commencement	1/1/06	4/1/07	
Feasibility Study Completion	10/1/06		1/8/07
Permit Received	12/31/07		
Signage Erected	6/1/08		
Construction Commencement	6/1/08		
Construction Completion	12/31/08		
Testing Commencement	1/1/09		
Testing Completion	1/1/10		
Contract Close-out	1/31/12		
Offset Report	1/31/15		

Status As Of: June 12, 2007

A Cooperative Funding Agreement (effective October 1, 2005) was executed on January 31, 2006. Malcom Pirnie submitted the final Reuse ASR Feasibility Study on January 8, 2007. An application for permit to construct the ASR well has also been submitted to DEP. A no cost amendment was executed on 02/02/07. This amendment adds additional language and requirements due to Water Protection and Sustainability Trust funds being allocated in FY2007. CCU has submitted a response to D.E.P.s request for clarification and additional information for the construction permit and is currently waiting on a response from D.E.P. To date, all of the funds have been encumbered for this project, of which \$0 has been reimbursed. Charlotte County Utilities has submitted an application for FY2008 funding. The FY2008 funding request is in the amount for \$200,000 and would increase the overall cost of the project to \$3,000,000. If approved, a second amendment will need to be processed.

Lakeland - Lk Parker Stormwater BMP Imp

Project Type	Cooperative Funding
AOR(s)	Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	City of Lakeland
Project Manager	KOLASA, KEITH
Task Manager(s)	TURNER, DAWN
Status	Proposed Coop. Funding Application

Recommendation

Fund as a high priority. This project is the second phase of a multi-year agreement in which construction costs will be phased over multiple years, FY2007, FY2008, and FY2009. The amount requested for construction for FY2008 is higher than the proposed amount in the current multi-year agreement and therefore this proposal receives a high ranking instead of a 1A ranking.

Description

This project entails the engineering design, permitting, and construction of a stormwater treatment system within the southwest basin of Lake Parker, the most urbanized basin draining to Lake Parker. Earlier studies completed for Lake Parker indicated that this basin discharges high pollutant loads into the lake. Funds requested for FY2008 are for project construction. The design and permitting for these stormwater retrofits were funded in previous years. The completion of the project is contingent upon the City acquiring the land to construct the project. This project will build upon previous City and District efforts in this problematic basin. The first treatment system was constructed at the lake shore or downstream portion of this drainage basin (Lake Parker Southwest Outfall Retrofit, P742), and included a large system of baffle boxes to stop sediments and trash from reaching the lake. This project will focus on the upper reaches of the watershed and will provide much needed attenuation of stormwater upstream of the first completed project. This upstream project will provide significant pollutant load reductions and will increase the effectiveness of the first completed treatment system. The long-term benefits of the project include a reduction in the loading of sediments, trash, and nutrients to Lake Parker.

Benefits

These systems will provide much needed attenuation of stormwater within the most urbanized basin in Lakeland and will significantly enhance the treatment efficiency of the stormwater system that was constructed along the lake shore during FY2005 under project P742 (Lake Parker Southwest Outfall Retrofit). Once completed the stormwater systems will provide significant pollutant load reductions to Lake Parker including sediments, trash, and nutrients.

Costs

The total project cost is \$2,767,100 of which 50% will be funded by the City of Lakeland (\$1,383,550) and 50% will be funded by the District (\$1,383,550). Design and permitting represents \$210,200 (8 percent) and project construction represents \$2,556,900 (92 percent). The Peace River Basin Board provided \$42,600 in FY2003 and \$62,500 in FY2005 for design and permitting services. Funding for project construction will be phased over multiple years. The Basin Board provided \$336,725 in the FY2007 budget to begin the first phase of project construction. For FY2008, the Basin Board's share is requested to \$470,862.50 The same amount (\$470,862.500) will be requested in FY2009 to complete the project construction. The combined total requested for project construction from the Peace River Basin Board for FY2007, FY2008, and FY2009 is \$1,278,450.

Additional Information

Lake Parker is listed as an impaired waterbody by the Florida Department of Environmental Protection. The need for treating stormwater from this basin was identified in the Lake Parker Diagnostic Feasibility Study published by the District and the City of Lakeland in 1993. The 595-acre sub-basin on the southwest portion of Lake Parker is highly urbanized and was shown to be a major source of pollutant loading in the Study. Annual loading of total nitrogen (TN) and total phosphorus (TP) from this basin is 3,970 Kg and 998 Kg, respectively. This represents 10% and 12% of the total external loading to the lake of TN and TP, respectively. A BMP evaluation of this basin was completed in FY2004 (Project K857) and identified four retrofit sites in which wet detention ponds could be constructed. The FY2005 project currently underway will design and permit the retrofit sites identified in the FY2004 BMP evaluation. The design and permitting is contingent upon the City acquiring the land for these projects.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	109,720	341,462	476,262	470,863	1,398,307
Project Funds Not Budgeted by the District					
City of Lakeland	105,100	336,725	470,862	470,863	1,383,550
			Total		\$2,781,857

Critical Project Milestones	Projected	Amended	Actual
1. Contract Development & Execution			
Agreement sent to Contracts Administration	2/15/05		7/18/05
Agreement Approved By City Council	2/15/05		7/18/05
Contract Executed	5/15/05		8/1/05
Notice to Proceed	6/1/05		8/8/05
2. Meetings			
City's kick-off meeting	8/10/05		11/20/05
3. Preliminary Design			
Preliminary Design Plans	1/30/07		4/20/07
4. Land Acquisition			
Land Acquisition	5/31/07		
5. Design and Permitting			
60% Design	6/30/07	12/30/07	
Pre-application meeting	9/30/07	12/30/07	
Permit Application and RAI	10/15/07	4/15/08	
100% Design	10/30/07	3/30/08	
Engineer's Construction Cost Estimate	12/31/07	5/15/08	
6. Construction			
Erosion Control Plan and Local Permits	5/30/08		
Construction and Inspections	10/30/08		
Punch List and Certification of Completion	12/30/08		
As-builts and Project Close-out	4/30/09		

Status As Of: July 11, 2007

This project will provide the design and permitting of a stormwater treatment system, pending the City's success in acquiring lands to construct the stormwater treatment system. The project has been divided into two phases. The land acquisition and completion of preliminary designs will be completed in the first phase, with final design and permitting to follow in the second phase after the land has been acquired by the City. The final agreement was approved the District and City approving on July 18, 2005. An execution notice recap was provided to the Peace River Basin Board in their October 2005 meeting information packet. The City executed a contract with CH2MHill for the design and permitting work. A kick-off meeting was held in late November 2005. The City completed an updated site evaluation report on January 19, 2006. The City has completed initial survey work and is currently completing the preliminary design. The City has encountered delays with the land acquisition process due to the complexity of land ownership in this highly urbanized area of the City of Lakeland. The City will continue their land acquisition efforts. It is likely that a time extension will be needed for this project due to delays with the land acquisition. The 30% design plans were completed by April 20, 2007 for all four ponds. The City elected to dismiss their existing consultant and hire a new consultant to review the 30% design plans and revise them if needed. The new consultant will complete the remaining design plans and permitting. Due to the delays associated with these changes and the delays with land acquisition, the City requested a time extension. A time extension has been prepared and was mailed to the City for signature on July 11, 2007. Although delays have occurred with the land acquisition, the City and District have prepared an agreement for the next phase of this project which is the construction of the stormwater retrofits that will take place in the future. An agreement has passed through District review and was mailed to the City for their approval in early February 2007 and was executed by the District on March 20, 2007.

Hydrologic Rest-Highlands Hammock St Pk

Project Type Cooperative Funding
AOR(s) Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s) Florida Department of Environmental Protection
Project Manager ZAJAC, CHRIS
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a high priority. The project will result in design plans, the necessary permits, and the restoration of eroded jeep trails to restore the hydroperiod and sheet-flow characteristics of approximately 381 acres of seepage slope wetlands and flatwoods communities. The funding, if approved, will complete this restoration project.

Description

This project involves the design, permitting and construction associated with the restoration of natural systems, including a cutthroat grass-dominated seepage slope within Highlands Hammock State Park in Highlands County. In FY2004 the Peace River Basin Board funded the Lake Wales Ridge Public Lands Hydrologic and Water Quality Restoration Project (B171), which has identified Highlands Hammock State Park as a high priority restoration site. The Lake Wales Ridge Public Lands Hydrologic and Water Restoration Project resulted in a final report identifying four recommendations for the restoration of natural systems and water quality within the state park. This project will implement one of those recommendations which is the restoration of eroded jeep trails that have resulted in deep gullies acting as ditches to drain water from adjacent seepage slope wetlands. This affects wetland hydroperiods, water storage, and water flow characteristics in the adjacent natural systems. The FY2008 funds will be used to complete the restoration effort that began with FY2007 funds.

Benefits

The project will result in design plans, the necessary permits, and the restoration of eroded jeep trails to restore the hydroperiod and sheet-flow characteristics of approximately 381 acres of seepage slope wetlands and flatwoods communities.

Costs

The total project cost is \$100,000. In FY2007, the Peace River Basin Board funded \$25,000 with an equal match from FDEP. The proposed FY2008 budget is \$50,000, with the cooperator and the District each contributing half (\$25,000). The FY2008 District share is split between the Peace River Basin Board (\$12,500) and the Water Protection and Sustainability Trust Fund (\$12,500). The District funding amounts shown in the table include staff salaries, travel and central garage charges.

Additional Information

The Lake Wales Ridge watershed has undergone substantial hydrologic alterations since the early 1900's, which has resulted in lowered lake levels, deterioration of lake water quality, reduced recharge, and local dewatering of the surficial ground water system. Restoration and retrofit projects to solve these problems may be undertaken on existing publicly owned lands to benefit the region. In FY2004 the Lake Wales Ridge Public Lands Hydrologic and Water Quality Restoration Project (B171) identified four such tracts of land as high priority restoration sites. As a result of this project, a final report identifying several restoration projects within Highlands Hammock State Park was completed in December 2006. The Florida Department of Environmental Protection plans to apply for cooperative funding in the future to complete other restoration projects that were identified as part of the Lake Wales Ridge Public Lands Hydrologic and Water Quality Restoration Project.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	28,160	15,789	0	43,949
District Budgeted - Outside Revenue					
Water Protection & Sust T. F. (Surface Wtr Rstr)	0	0	12,500	0	12,500
Project Funds Not Budgeted by the District					
Fl Department of Environmental Protection	0	25,000	25,000	0	50,000
			Total		\$106,449

Critical Project Milestones

	Projected	Amended	Actual
1. Contract Development and Execution			
Purchase order #07POSOW0543 issued	1/17/07		1/18/07
2. Project Tasks			

Hydrologic Rest-Highlands Hammock St Pk

Project Construction Complete	7/18/07
Construction Completion Verification Report	8/18/07

Status As Of: June 29, 2007

The District's project manager developed a draft scope of work and sent it to the cooperator for review and comment in August 2006. Upon review of the draft scope of work it was determined that this project may qualify for an exemption from permitting. The cooperator, with assistance from the District's project manager, prepared a Project Evaluation and submitted it to the Bartow Regulation Department for review in October 2006. On November 3, 2006 the Bartow Regulation Department issued a letter granting an exemption from permitting to complete the proposed project. The funds requested for this project are being used for construction rather than design and permitting as the original coop funding application indicated. District staff issued a Purchase Order on January 18, 2007 so that project construction may begin. The cooperator has submitted a request for FY2008 funding to continue restoration efforts that could not be completed with the limited FY2007 funds. On June 29, 2007 the cooperator indicated that the project did not receive enough bids and that the project will be rebid in two weeks.

Education Exhibits in the New Childrens Museum of Tampa

Project Type Cooperative Funding
AOR(s) Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s) Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s) The Children's Museum of Tampa
Project Manager O'NEIL, RAINA
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as high priority. This project's funding request was split into two phases between FY2008 and FY2009. This project is recommended for funding because of the facility's high profile in the region, the potential numbers reached, and alignment with the District mission as a result of input from District staff and Basin Board Education Committee members in the conceptual planning of the exhibits.

Description

The Children's Museum of Tampa (CMT) is relocating to a new museum site in Riverfront Park in downtown Tampa. This project is part of the City of Tampa's efforts to revitalize the City's downtown business district. In FY2007, the District funded the planning and development phase for interactive water exhibits. District staff and BBEC members have been included in several planning sessions for the design of the interactive water exhibits to ensure that they incorporate the District's message. These exhibits include Water's Journey, which is a three-story climbing structure where visitors "become" a drop of water and make their way across the watershed, down through the aquifer, up to the city, down a storm drain and into a swamp. Another exhibit is the Water Bank, which is styled to look like an ATM. Here visitors explore some of the issues of water supply and demand. Sample depositors of water into the ATM are rain, reservoir, desalination plants, etc. Withdrawals of water are made by wildlife, wetlands, cities, people, industry, agriculture, etc. Interest is earned by saving water through a variety of water conservation actions, such as turning the water off when brushing teeth, using Florida-friendly landscaping principles, etc. Additional exhibits throughout the museum would also include water conservation messages and water-related themes. The funding request for FY2008 is for exhibit construction and installation.

Benefits

The exhibits are multi-disciplinary, integrating Sunshine State Standards and diverse learning styles. This project has the potential to reach 100,000 people annually. The interactive water exhibits address all elements of the District's AORs, in simple, easy-to-understand terms. Additionally, this project targets children ages 0-10 years and accompanying adults. This segment of the population was identified in a 2002 independent evaluation of the District's Youth Education Program as one to which the District needed to expand its reach. This project will help accomplish this goal.

Costs

The total cost of the project (including building construction and all exhibits throughout the museum) is estimated to be \$20 million. The total contribution requested of the District, including FY2007 (already approved), FY2008 (proposed) and FY2009 (future funding) is \$617,442. The Basins shared the planning phase costs of \$112,500 in FY2007. Staff recommends that the remaining funding request (\$504,942) be spread over FY2008 and FY2009, with the total proposed funding in FY2008 of \$252,471, to be split by the Basin Boards as follows:

- Alafia: 12% \$29,968
- Hills: 27% \$68,900
- NW: 15% \$37,340
- CR: 9% \$22,249
- P-A: 14% \$35,396
- With: 5% \$12,821
- Peace: 8% \$20,550
- Man: 10% \$25,247

The funding splits for this project are based on cooperator-supplied projections of museum attendance. This proposed project anticipates reaching 100,000 people per year at a cost to the District of \$6.18 per person. Typical museum exhibits have a 10-year life span. This project, therefore, has the potential to reach 1 million visitors over a 10-year period at a cost to the District of \$0.62 per person.

Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
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District Budgeted - Ad Valorem Based Revenue

011 Alafia River Basin	0	14,850	29,968	29,968	74,786
013 Hillsborough River Basin	0	33,075	69,100	68,900	171,075
014 Northwest Hillsborough Basin	0	19,575	37,340	37,340	94,255
015 Coastal Rivers Basin	0	2,973	22,987	22,249	48,209
016 Pinellas-Anclote River Basin	0	28,125	35,396	35,396	98,917
019 Withlacochee River Basin	0	2,381	13,559	12,821	28,761
020 Peace River Basin	0	6,167	21,288	20,550	48,005
021 Manasota Basin	0	5,354	25,985	25,247	56,586

Project Funds Not Budgeted by the District

Other Funding Sources	0	1,322,500	4,750,000	13,018,602	19,091,102
The Children's Museum of Tampa	0	37,463	253,994	0	291,457

Total **\$20,003,153**

Critical Project Milestones

	Projected	Amended	Actual
Purchase order opened	4/30/07		4/26/07
Confirmation and layout of exhibits in building	6/30/07		
Schematic design and fabrication documents	12/30/07		
Time line of building construction, exhibit fabrication and Museum grand opening	12/30/07		

Status As Of: June 29, 2007

To date, a purchase order has been opened with the FY2007 funding for the design and fabrication documents for the Water's Journey Climber exhibit and the Water Bank exhibit.

Lk Gibson Stormwater Mgmt System Retrofit

Project Type	Cooperative Funding
AOR(s)	Flood Protection, Water Quality
Basin(s)	Peace River
Cooperator(s)	City of Lakeland
Project Manager	ZAJAC, CHRIS
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a high priority. Once completed, the project will reduce peak flows, improve water quality treatment, and reduce flooding. The project will treat stormwater from 245 acres of highly urbanized land discharging to Lake Gibson. The cooperator has requested \$750,000 from the Peace River Basin Board in FY2008. However, due to anticipated budgetary constraints, staff have included \$562,500 in the FY2008 proposed budget.

Description

This project involves the engineering design, permitting, and construction to retrofit the stormwater management system of Lake Gibson's southwest drainage sub-basin. In 2004, the City of Lakeland received funding from the Peace River Basin Board (L145 - Lake Gibson Southwest Area: Watershed Management Plan) to conduct a diagnostic evaluation of the southwest basin to identify the sources of erosion, pollutant loading and flooding. One task in the evaluation was the design of conceptual plan options to address the issues noted above. The City has chosen one of the conceptual plan options and has decided to move forward with final design, permitting and construction. The conceptual plan option that was chosen involves the construction of three wet detention ponds designed to capture and treat stormwater prior to discharging into the existing conveyance stream which discharges to Lake Gibson. The design will include components that will reduce peak flows and enhance base flows through storage and release, provide water quality treatment using treatment wetlands, and reduce flooding through attenuation and downstream channel restoration. Due to the complexity of the project, it is anticipated that the design and permitting phase will take approximately nine months to one year to complete. Land acquisition and construction will take approximately three years to complete. All lands acquired will be used solely for the proposed project. The FY2007 project deliverables will include sealed construction plans and specifications for all project elements, bid documents and all necessary state/federal permits. Construction is scheduled to occur in FY2008, FY2009 and FY2010.

Benefits

The design will include components that will reduce peak flows and enhance base flows through storage and release, provide water quality treatment using treatment wetlands, and reduce flooding through attenuation and downstream channel restoration. The project will treat stormwater from 245 acres of highly urbanized land.

Costs

The total project cost for design, permitting, land acquisition and construction is \$4,650,000. The FY2007 cost for design and permitting is \$150,000. The Peace River Basin Board has approved funding in the amount of \$75,000 in FY2007 while the City will fund the remaining \$75,000. The Peace River Basin Board is requested to fund \$562,500 in FY2008 while the cooperator will contribute \$750,000. The cooperator will request the remaining funds over future fiscal years. The District funding amounts shown in the table include staff salaries, travel and central garage charges.

Additional Information

Lake Gibson is a 489-acre, headwater lake in the Peace River Basin. Lake Gibson flows into Lake Parker which discharges into Lake Hancock via Saddle Creek. Lake Gibson is included on the Florida Department of Environmental Protection verified list as being impaired for nutrients. The southwest sub-basin of Lake Gibson is 245 acres of highly urbanized land. This sub-basin includes portions of the Lakeland Mall, US 98 North and a variety of large commercial properties. A deeply incised creek conveys surface flows from the sub-basin to Lake Gibson. Slopes along the creek are moderate to severe. The extensive development of land and the associated impervious cover has greatly increased the peak run-off rates and volumes, and reduced base flow through the creek. This has resulted in erosion of the stream channel with the deposition of eroded sediments in Lake Gibson, as well as flooding of some downstream residential properties. A large sediment delta has formed at the confluence of the stream and lake. Stormwater run-off quality has been sampled and is characterized as poor. Although the southwest sub-basin is relatively small in size, this tributary to Lake Gibson is a significant source of pollutant loading to the lake. Correcting the deficiencies in this basin will be an important first step in addressing nutrient enrichment impairment of Lake Gibson.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	78,160	565,789	1,687,500	2,331,449
Project Funds Not Budgeted by the District					
City of Lakeland	0	75,000	750,000	1,500,000	2,325,000

		Total	\$4,656,449
Critical Project Milestones	Projected	Amended	Actual
1. Contract Development & Execution			
Agreement sent to Management Services	9/21/06		9/28/06
Agreement returned from Management Services	10/15/06		10/19/06
Agreement sent to Cooperator	11/1/06		11/9/06
Signed Agreement returned from Cooperator	12/1/06		12/15/06
Contract Executed	12/15/06		12/20/06
Notice to Proceed	12/15/06		12/29/06
2. Project Tasks			
Select Consultant	3/29/07		1/30/07
Project Design	9/29/07		
Acquire Permits	11/29/07		
Final Construction Plans/Permits	12/29/07		

Status As Of: May 16, 2007

The agreement between the cooperator and the District was executed on December 20, 2006. The cooperator was issued a Notice To Proceed on December 29, 2006. The cooperator entered into an agreement with its selected consultant on January 30, 2007. The cooperator provided the District project manager a copy of the agreement with its consultant on April 3, 2007. The 30% Completion Plans are due by June 30, 2007. The District project manager is scheduled to attend a meeting with the cooperator and its consultant on May 23, 2007 to discuss project progress.

Charlotte County Toilet Rebate Program

Project Type Cooperative Funding
AOR(s) Water Supply
Basin(s) Peace River
Cooperator(s) Charlotte County
Project Manager WHITE, BRENT
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a high priority. The project addresses water supply and education priorities of the basin by saving water in the SWUCA. There was sufficient information provided to evaluate the project and the cooperator has confirmed it will include the necessary matching funds in its capital budget for FY2008. This project is within the District's statutory authority to fund and is not the result of a permit requirement or enforcement action.

Description

This project consists of replacement of existing high-volume toilets (installed with pre-1995 construction) with low-volume models using 1.6 gallons per flush or less, or the high efficiency toilets (HET's) using approximately 1.3 gallons per flush. Approximately 770 toilet rebates of \$100 per year will be offered to single-family residential customers. The project will include education designed to help consumers maximize the water-saving capabilities of their toilets. These customers can replace up to two toilets per household. A contractor will administer this program at \$30 per toilet. This is the first year of a 5-year effort.

Benefits

The project is estimated to provide potable water savings of 18,480 gallons per day of potable water or 6,745,200 gallons per year.

Costs

The total FY2008 cost for this project is \$100,100 with the District requested to fund 50 percent, or \$50,500. The cost-benefit for the project, using a total cost amortized over 20 years at 8% interest, is \$1.50 per thousand gallons.

Additional Information

CCU will provide actual billing data, ensure 100 percent fixture inspection, and institute an education program designed to assist customers in long-term maintenance related to water savings, such as selecting replacements necessary to ensure that each toilet remains a water-conserving fixture by focusing in leak detection and proper flapper replacement. The HET models are relatively new to the plumbing industry, and the Environmental Protection Agency recently completed a list of standards to help consumers select properly performing models. The applicant understands they must ensure the HET models associated with this project will meet the EPA standards in order to be eligible for District funding as part of the project.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	52,124	0	52,124
Project Funds Not Budgeted by the District					
Charlotte County	0	0	50,500	0	50,500
			Total		\$102,624

Critical Project Milestones

	Projected	Amended	Actual
Design Advertising/Marketing Program	7/1/07		
Outline Education Program	8/1/07		
Develop RFP for Contractor	10/1/07		
Begin Advertising Program	11/1/07		
Execute Agreement with WMD	1/1/08		
Begin Rebate Period	1/1/08		
Complete Rebate Period	12/31/08		
Draft Distribution Report to WMD	1/30/09		
Final Distribution Report	3/1/09		
Draft Final Report to WMD	2/1/10		
Final Report	4/1/10		
Final Invoice to District	6/1/10		
Project Closeout	12/31/10		

Status As Of: July 01, 2007

Charlotte County Utilities does not expect that the legislative action on property tax reform will affect Charlotte's funding for this 2008 Cooperatively Funded project.

Highlands - Lake Clay Stormwater Retrofit

Project Type	Cooperative Funding
AOR(s)	Water Quality
Basin(s)	Peace River
Cooperator(s)	Highlands County, Lake Placid
Project Manager	KOLASA, KEITH
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a high priority. This project will result in improved water quality of the water discharging to Lake Clay, one of the lakes in the Basin Board's Ridge Lakes Initiative. Lake Clay received a high ranking for implementation of water quality and habitat enhancement projects during the 2002 Ridge Lakes Screening completed by District staff. The Cooperator submitted the project for REDI consideration.

Description

This project entails the design, permitting, and construction of a stormwater treatment system within the most urbanized sub-basin of Lake Clay, Highlands County. Lake Clay was given a high priority for implementation of water quality and habitat enhancement projects within the assessment of 130 Ridge lakes completed by District staff. One of the purposes of the Ridge lakes assessment was to identify lakes that would benefit from proactive management practices to prevent them from degrading. It is well known that the cost of preventing degradation is much lower than restoration. Lake Clay was identified as a lake that has relatively good water quality and habitat that is in need of protection. The lake is highly used for recreational purposes including fishing, boating, and skiing and in turn is an economic resource to the local community. The completed stormwater BMP will reduce pollutant loads entering the lake through stormwater runoff and will be a proactive measure towards protecting the lakes water quality and habitat. It is anticipated that reducing pollutant loads from this highly urbanized basin will protect the lake's existing water quality and habitat. The stormwater retrofit will include the installation of French drains under existing parking lots and within County and City road easements. Conceptual design plans and a project cost estimate have already been completed for Lake Clay under project B196, Ridge Lakes Stormwater Evaluation.

Benefits

The completed stormwater treatment system will reduce pollutants to Lake Clay entering through the most urbanized and problematic basin. Stormwater is currently discharged directly to the lake without any form of treatment. Treating this runoff is anticipated to enhance the lake's water quality and prevent degradation of its relatively good water quality and protect the existing recreational uses of the lake.

Costs

The FY2008 budget is \$250,000, of which \$31,250 is revenue from the City of Lake Placid, \$31,250 is revenue from Highlands County, \$93,750 is provided by the State Surface Water Restoration Fund, and \$93,750 is the Basin's contribution. Under the REDI project funding split the District's 75% share is expected to be \$187,500 and the Cooperator's 25% share will be \$62,500 (equally divided between Highlands County and City of Lake Placid). The District share of \$187,500 will be split between the Basin and the State Surface Water Restoration Fund. Design and permitting represents 12 percent (\$30,000), and the project construction represents 88 percent (\$220,000).

Additional Information

Lake Clay, a 368 acre lake located in the Grassy Creek watershed, on the northeastern corner of the town of Lake Placid in Highlands County, has been identified by the SWFWMD staff as receiving significant direct stormwater discharge (Ridge Lakes Screening, SWFWMD 2003). Lake Clay was also included in the Ridge Lakes Stormwater Evaluation Project (B196) completed in FY2007 in which conceptual design plans were developed to treat some of the stormwater discharging to Lake Clay. The total watershed draining immediately to Lake Clay consists of 949 acres, which the Evaluation divided into four subbasins. The dominant land use on one subbasin, designated CL000-B, was a combination of low, medium, and high density residential, commercial structures and highways. Additionally, this subbasin includes steep slopes, with an elevation change of 70 feet over a 1000 foot run. All of the development in this subbasin is served by a privately-owned central waste water treatment system. Lake Clay was identified as a lake needing proactive measures to prevent water quality degradation (Ridge Lakes Screening, SWFWMD 2003), primarily due to the good water quality recorded in the lake, the extensive development in the watershed, and the absence of stormwater treatment for the watershed. The Town of Lake Placid has identified this portion of the Lake watershed as a "hot spot" of concern for surface water quality. On numerous occasions, a central sewer lift station has been documented as overflowing, with the effluent flowing directly to Lake Clay. Additionally, stormwater runoff from parking lots and roads in this subbasin carries unabated pollutants directly to Lake Clay. Contaminant levels, measured in samples collected by the County, in this runoff water has elevated levels of heavy metals, bacteria, and nutrients. Given the documented stormwater contamination to Lake Clay in this subbasin, work to retrofit the stormwater flows is needed. The Water Resource Evaluation completed for Lake Clay (BCI 2006) recommended French drains under parking lots and under right of way areas as the primary stormwater BMP. The BCI report indicated that this particular technology should work well because of the well drained soils, Astatula sand, located in this subbasin. This project may also require the acquisition of additional right of way and installation of other measures to

Highlands - Lake Clay Stormwater Retrofit



reduce stormwater runoff to Lake Clay from this and other subbasins.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	100,317	0	100,317
District Budgeted - Outside Revenue					
Highlands Co - Lake Clay SW Retro (L897)	0	0	31,250	0	31,250
Lake Placid - Lake Clay SW Retro (L897)	0	0	31,250	0	31,250
Water Protection & Sust T. F. (Surface Wtr Rstr)	0	0	93,750	0	93,750
			Total		\$256,567

Critical Project Milestones

Contract Development and Execution

	Projected	Amended	Actual
Agreement sent to Management Services	9/30/07		
Agreement returned from Management Services	10/25/07		
Agreement sent to Cooperators	10/26/07		
Signed Agreement returned from Cooperator	11/30/07		
Notice to Proceed	12/15/07		
Contract fully executed	12/15/07		

Status As Of: July 11, 2007

District staff have been communicating with Highlands County staff to determine whether the County will be able to fund their share of the project due to the tax reduction anticipated. As of July 9, the County has indicated that funding will continue for this project.

Project Type	Cooperative Funding
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	Alafia River, Hillsborough River, Peace River
Cooperator(s)	Lakes Education/Action Drive (LE/AD)
Project Manager	ANTOINE, KENDRA
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a high priority. LE/AD is an educational organization that teaches Polk County citizens to follow best management practices related to water conservation and water quality protection. If funded, LE/AD will create programs to educate residents to adopt behaviors that protect their local watershed and water resources.

Description

The Lakes Education/Action Drive (LE/AD) program is designed to educate Polk County residents on water resource and water quality issues, as well as lake preservation and protection. LE/AD encourages residents to adopt behaviors that encourage protection of their local watershed. The LE/AD will implement numerous watershed education projects, which include organizing and hosting several community events, distribution of a quarterly newsletter, coordination of quarterly PREEN meetings, creating lakeside display signs and organizing hosting two TMDL workshops.

Benefits

Approximately 79,000 Polk County residents will receive education about water resources, water conservation, watershed protection and improvement of natural systems. The LE/AD program will educate the public to understand how their actions affect water resources and encourage citizens to adopt behaviors that protect their local watershed.

Costs

The total cost of the FY2008 program is \$38,552, and the District's share is proposed to be \$19,155 shared among the affected basin boards as follows: the Alafia River Basin - \$2,195 (11%), the Hillsborough River Basin - \$2,832 (15%) and the Peace River Basin - \$14,128 (74%). The dollar amount allocated per basin is determined by the amount of work projected to occur within each basin. Program participants attend project activities from all three basins that fund the project. The program is estimated to reach approximately 79,000 Polk County residents at \$.48 per person. Budget lines below reflect costs for staff to manage the project.

Additional Information

LE/AD is currently being funded through basin initiative funding (P268) to conduct education outreach (see P268 for status). In FY2008, the cooperator submitted a cooperative funding proposal to expand education efforts in Polk County.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	0	2,901	0	2,901
013 Hillsborough River Basin	0	0	3,538	0	3,538
020 Peace River Basin	0	0	14,909	0	14,909
Project Funds Not Budgeted by the District					
Other Funding Sources	0	0	19,397	0	19,397
			Total		\$40,745

Status As Of:

Avon Park - Imp. BMPs Avon Park Executive Airport

Project Type Cooperative Funding
AOR(s) Flood Protection
Basin(s) Peace River
Cooperator(s) Avon Park
Project Manager FRIES, GEORGE
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a high priority. This project is implementation of BMPs. Construction of the BMPs will provide some relief from periodic flooding at the municipal airport as well as at adjacent residential areas. A senior administrator has provided confirmation that the City will budget the project for FY2008 funding. The City has ranked this project second of 2 submitted for cooperative funding.

Description

This is a multi-year funded project to perform the Implementation of Best Management Practices (BMPs) element of the District's Watershed Management Program (WMP) for the Avon Park Executive Airport (APEA) Watershed. Implementation of BMPs includes the following tasks: design, development of construction documents, construction permitting, land acquisition, bidding and contractor selection, construction of the BMPs and construction engineering and inspection. The airport occupies an area of 350 acres and is located west of the City of Avon Park. In 2003 the City of Avon Park listed a stormwater conveyance improvement project at the airport as the number one Local Mitigation Strategy Initiative and applied for funding under the FEMA Hazard Mitigation Grant Program. The project has 75% funding obligated but has yet to receive the grant contract for Phase I design and permitting. **For FY2008** the City is requesting that the local match requirement of 25% of the project cost be split equally between the City and the District.

Benefits

Construction of the BMPs will relieve potential flooding in the Bonny Brae Mobile Estates (BBME) mobile home park and at the Bell Street Water Treatment Plant (BSWT), both of which have flooded with as little as 2 inches of rain.

Costs

The total project cost is estimated at \$2,577,182 of which the Federal Emergency Management Agency through the Hazard Mitigation Grant Program will pay 75% or \$1,932,886. The local sponsor, Avon Park, is responsible for 25% or \$644,296 of which the District's share is \$322,148 and the city's share is \$322,148. Since this is a multi-year funded project, for FY2008 \$161,074 is included in the Basin Board's budget; future funding is required to complete the project. The probable construction cost is based on a BMP alternative analysis developed by the cooperator.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices (BMPs), and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. A WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. Since 1998 the APEA, BBME and BSWT have experienced flooding events with as little as 2-inches of rain. A rainfall of 1.5-inches will result in flooding of the Bell Street Water Treatment Plant; a rainfall of 3-inches will result in flooding at BBME adjacent to the airport property. During the 1998 flooding event Highlands Aviation, Inc., located at the airport suffered flooding damage of \$275,000. A cooperative funding expenditure agreement with the City will be developed. This is a multi-year funded project that will require a cooperative funding request each fiscal year until completed. The City will manage the project, where the District project manager must approve any agreements to accomplish project tasks.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	163,200	161,074	324,274
Project Funds Not Budgeted by the District					
Avon Park	0	0	161,074	161,074	322,148
FEMA HMGP	0	0	1,932,886	0	1,932,886
			Total		\$2,579,308

Status As Of:

Lower Floridan Aquifer Reuse Supplement Well Feasibility Study

Project Type Cooperative Funding
AOR(s) Water Supply
Basin(s) Peace River
Cooperator(s) Dundee
Project Manager BEACH, MICHAEL
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a high priority. This project will assess the feasibility of using lower quality water from the Lower Floridan aquifer as an alternative source of water supply in an area where withdrawals from the Upper Floridan aquifer are limited. Information developed for the project will be transferable to other utilities in the area. There is sufficient data to evaluate the project, it is within the Basin Board's statutory authority to fund, and it is not the result of a permit requirement or other enforcement action.

Description

This is a preliminary investigation project to determine the feasibility of using poor quality water from the Lower Floridan aquifer to supplement reuse supplies for the Town of Dundee. The project will determine the degree to which the likely water quality must be treated for the intended use: landscape irrigation and other outdoor use. The project will also determine the likely cost to treat the water, including costs associated with disposal of treatment byproducts (e.g., concentrate disposal). The project should also determine the likelihood that such a project would be permitted.

Benefits

The Lower Floridan aquifer is a potential alternative source of groundwater to the stressed Upper Floridan aquifer in the SWUCA. This project will explore the feasibility of using naturally occurring low-quality water from the Lower Floridan aquifer to supplement reuse water supplies for the Town of Dundee in Polk County. Feasibility will depend on the degree and costs of treatment required for the intended use and the likelihood of permitting such a project. These costs, information, and assessments would be transferable to other utilities in the area. The costs of the project will be much lower than drilling a new well because the feasibility will be based on data collected at the ROMP 74X site near Davenport, Florida.

Costs

The Town of Dundee has been approved for Rural Economic Development Initiative (REDI) funding. The costs for the project are based on a revised estimate by the Town of Dundee's consultant.

Engineering	Dundee \$ 19,000	District \$ 57,000	Total \$ 76,000
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As originally proposed:

	Dundee	District	Total
Wells/Monitoring	\$ 257,250	\$ 771,750	\$ 1,029,000
Water Qlty Evaluation	34,000	102,000	136,000
Engineering	58,750	176,250	235,000
Total	\$ 350,000	\$ 1,050,000	\$ 1,400,000

Additional Information

As originally proposed by the applicant the project called for a Lower Floridan aquifer well to be constructed for the Town of Dundee, on the Lake Wales Ridge. The purpose of the project would be to determine the feasibility of using water from this source to supplement the reuse supply available from the Town of Dundee's waste water treatment facility. Reuse lines from this facility are currently being cooperatively funded (Project L553). If feasible, the exploratory well would then have been used for supplemental supply. However, there are several issues that need to be resolved prior to constructing the well that can be addressed based on existing data. First, to what level must the water from this source, known to be of extremely poor quality, be treated if it is to be used to supplement reuse? Second, what will the cost of this treatment be and the cost of any by product produced during treatment? And third, is it reasonable to supplement reuse from any source? To answer these questions, the likely water quality and productivity of the aquifer needs to be known. The District has previously constructed a well into Lower Floridan aquifer about 10 miles north of the town of Dundee at ROMP 74X near Davenport. Water quality samples were collected and an aquifer performance test was conducted. It is also known that water quality generally degrades in the Lower Floridan aquifer as one moves from north to south. Therefore, it would be expected that water quality and productivity found in a Lower Floridan well near Dundee would be no better than that found at ROMP 74X. Because the costs to date of drilling wells into the Lower Floridan aquifer have proven to be very high, it is prudent to do a feasibility study of the alternative supply based on data from the ROMP 74X site data. It would also be useful to investigate the costs of developing storage for reuse from a water management perspective since it is probably better to retain an existing source than exploit a new one. The Town of Dundee has been deemed eligible for the Rural Economic Development Initiative (REDI) program. As such they would provide 25% of the cost of the project rather than the usual 50%.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	62,948	0	62,948
Project Funds Not Budgeted by the District					
Town of Dundee	0	0	19,000	0	19,000
			Total		\$81,948

Status As Of:

City of Lakeland Plumbing Retrofit Project

Project Type	Cooperative Funding
AOR(s)	Water Supply
Basin(s)	Alafia River, Hillsborough River, Peace River
Cooperator(s)	City of Lakeland
Project Manager	WHITE, BRENT
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a high priority. The project addresses water supply priorities of the basin board by saving potable water supplies in the SWUCA. The project is local in that it reduces the demand on the City of Lakeland water supply system. The cooperator has confirmed it will include the necessary matching funds in its capital budget in FY2008. There was sufficient data submitted to evaluate the project, it is within the basin board's statutory authority to fund, and it is not the result of a permit requirement or enforcement action.

Description

This project offers financial incentives to water customers within the City of Lakeland's service area for replacement of existing high-volume indoor plumbing fixtures including showerheads (replacing those using 4.0 gallons per minute, or gpm, or greater with those using 2.5 gpm or less), faucet aerators (3.0 gpm or greater with 2.2 gpm in kitchens and 1.5 gpm in bathrooms) and toilets (3.5 gallons per flush (gpf) or greater with 1.6 gpf or lower). Approximately 84 percent of Lakeland's 46,155 residential accounts were built or improved before 1995 (~38,770 homes), making them eligible for plumbing retrofit incentives. In FY2008, The City of Lakeland expects to distribute 3,000 retrofit kits (maximum two per customer) and to retrofit 4,000 single family and 2,000 multi-family toilets through an outside contracted consultant. Single-family residences will be offered up to two toilet rebates per home while multi-family dwellings, with appropriate representation, will be encouraged to replace all devices at one time. These quantities are planned each year for a term of five years.

Benefits

This project will provide potable water savings of 160,880 gallons per day, or 58.69 million gallons per year.

Costs

The total FY2008 cost for this project is \$600,000 which breaks down by basin at a 50 percent funding level as \$210,000 in the Peace River basin, \$60,000 in the Hillsborough River basin and \$30,000 in the Alafia basin. The cost benefit for the project using the total cost amortized over 20 years is \$1.61 per thousand gallons of water.

Additional Information

The City of Lakeland will provide actual billing data, ensure 100 percent fixture inspection, conduct a scientifically significant survey to determine customer satisfaction with low-volume devices and institute an education program designed to assist customers in long-term maintenance related to water savings. The educational portion will provide participants with materials on leak detection and replacement of devices at the end of the life cycle. Marketing for the project will begin Sept. 1, 2007 and the distribution of the kits will begin no later than Oct. 1. Approximately 3,000 kits will be distributed by Sept. 30, 2008. A draft annual distribution report, describing and relating the number of kits distributed, and the demographics of participating customers will be provided to the District by Oct. 31, 2008 and a final distribution report incorporating District comments will be provided on December 1, 2008.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	0	31,011	0	31,011
013 Hillsborough River Basin	0	0	60,581	0	60,581
020 Peace River Basin	0	0	211,061	0	211,061
Project Funds Not Budgeted by the District					
City of Lakeland	0	0	430,000	0	430,000
			Total		\$732,653

Critical Project Milestones

	Projected	Amended	Actual
Submit RFP	8/1/07		
Evaluate RFP's and Select Consultant	9/1/07		
Consultant on Board	9/15/07		
Transfer all Necessary Data to the Consultant	9/25/07		
Program Implemented / Notice to Proceed	10/1/07		
Survey Instrument Developed	4/1/08		
Completion of Installations	9/30/08		

Begin Evaluatory Period	10/1/08
Mail All Surveys	11/1/08
Final Report	10/1/09
Contract Closeout	10/1/09
End Evaluatory Period	10/1/09

Status As Of: July 12, 2007

In a letter dated July 9, 2007, The City of Lakeland has decided that due to the recent State of Florida Tax cuts and the impact on the City's budget, the implementation of the project as-is would require a large rate increase. The City of Lakeland changed the term of the project from five years to seven years thus reducing the required annual funds without reducing the number of toilets to be rebated. The City of Lakeland will now retrofit 3,000 single family and 1,500 multi-family toilets a year for seven years. The previous levels of retrofits was 4,000 single family and 2,000 multi-family toilets.

Project Type Cooperative Funding
AOR(s) Water Supply
Basin(s) Alafia River, Hillsborough River, Peace River
Cooperator(s) City of Lakeland
Project Manager WHITE, BRENT
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a high priority. This project will cost-effectively result in a reduction of the food service industry's indoor water use. The project addresses water supply priorities of the basin board by saving potable water supplies. The project is local in nature because it reduces demand in the City of Lakeland system. The cooperator has confirmed it will include the necessary matching funds in its capital budget in FY2008. There was sufficient data submitted to evaluate the project, it is within the Basin Board's statutory authority to fund, and it is not the result of a permit requirement or enforcement action.

Description

The City of Lakeland proposed a pre-rinse spray valve replacement and conservation education program for the City's food service industry. The program will focus on replacing high water use spray valves utilized to clean food from dishes, utensils, and pots and pans. The FY2008 project targets water customers in the food service industry to replace spray valves in 300 locations at no cost to the water customer. Conventional pre-rinse spray valves utilize from 2.65 to 4.0 gallons per minute and can be responsible for up to fifty percent of food service industry total dish washing water use. Water efficient pre-rinse spray nozzles use approximately 1.6 gallons per minute. The "Potable Water Conservation Best Management Practices for the Tampa Bay Region Report" (Tampa Bay Water, 2003) identifies the use of water-efficient pre-rinse spray valves as a best management practice in Industrial, Commercial and Institutional facilities (ICI).

Benefits

The total estimated water savings is 60,000 gallons of potable water per day or 21.9 million gallons per year.

Costs

The total project cost is estimated to be \$45,000. The City of Lakeland has requested the District fund 50 percent through several Basin Boards. The breakdown of funding is: Peace River Basin Board - \$15,750, Hillsborough River Basin Board - \$4,500 and the Alafia River Basin Board - \$2,250. The cost benefit for this project, using the total cost amortized over 5 years at 8% interest, is \$0.50 per 1000 gallons of water.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	0	2,756	0	2,756
013 Hillsborough River Basin	0	0	5,006	0	5,006
020 Peace River Basin	0	0	16,761	0	16,761
Project Funds Not Budgeted by the District					
City of Lakeland	0	0	22,500	0	22,500
			Total		\$47,023

Critical Project Milestones

	Projected	Amended	Actual
Submit RFP	8/1/07		
Evaluate RFP's and Select Contractor	8/1/07		
Contractor On-Board	9/15/07		
Transfer All Necessary Data to Contractor	9/25/07		
Program Implemented	10/1/07		
Distribution Completion of 300 Units	11/30/07		
Evalutory Period Begins	12/1/07		
Evalutory Period Ends	12/1/08		
Final Report	12/1/08		

Status As Of: July 01, 2007

The City of Lakeland at this time does not anticipate a change in Lakeland's funding for this 2008 Cooperatively Funded project due to the legislative action on property tax reform.

Project Type Cooperative Funding
AOR(s) Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s) Alafia River, Hillsborough River, Peace River
Cooperator(s) Polk County
Project Manager KOLASA, KEITH
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as high priority. This project will provide electronic bottom contours of 85 lakes in Polk County for a low cost. The information will be used for a number of District programs including SWUCA related hydrologic studies and Minimum Flows and Levels.

Description

This project will complete electronic bottom contours (elevation models) of 85 lakes located in Polk County for inclusion as a data layer in multi-agency Geographic Information System (GIS) databases. This project will use lake elevation data that has been previously collected by a District survey consultant and convert it into lake bottom contour maps and stage volume data. Information relative to lake level monitoring stations and existing public boat ramps will be included. The deliverables will be uploaded into the County's and District's GIS databases. The updated bottom contour information will be used for water quality restoration work, water budgets, lake volume calculations, and flood protection models. Obtaining bottom contours in a digital format will provide a much more accurate calculation of the lake volume needed for implementation of these type projects.

Benefits

Digital elevation models of lakes are currently a data gap within various hydrologic studies and analyses. Completed elevation models are needed to calculate accurate lake volumes and to determine lake water budgets. This information will be used for SWUCA related hydrologic studies such as the determination of relationships between lake levels and the Floridan aquifer. The data will also will be used for setting Minimum Flows and Levels (MFLs) of these lakes.

Costs

The total project cost is \$20,000, with the County and District each contributing half (\$10,000) in FY2008. The District's share is split between the Peace River Basin (\$7,400), Hillsborough River Basin (\$1,500) and Alafia River Basin (\$1,100). The District funding amounts shown in the table include staff salaries.

Additional Information

The majority of the maps were published over 30 years ago as hard copy files and need to be updated as digital elevation models that can easily be integrated into modern water resource model applications. The completed maps will be made available to other governmental agencies and the public via the internet and as part of the Polk County Lakes Access Directory. Coverage will be countywide and include lakes in the Alafia River, Hillsborough River, and Peace River Basins.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	0	1,100	0	1,100
013 Hillsborough River Basin	0	0	1,500	0	1,500
020 Peace River Basin	0	0	10,198	0	10,198
Project Funds Not Budgeted by the District					
Polk County	0	0	10,000	0	10,000
			Total		\$22,798

Critical Project Milestones

1. Contract Development and Execution

	Projected	Amended	Actual
Agreement Sent to Management Services	9/4/07		
Agreement returned from Management Services	9/25/07		
Agreement sent to Cooperator	10/2/07		
Signed Agreement Returned from Cooperator	10/30/07		
Contract fully executed	11/13/07		
Notice to Proceed	11/17/07		

Status As Of: July 11, 2007

District and County staff held a meeting on June 14, 2007 to review the existing contour data and data requirements and to exchange bathymetry methodologies. The information will be used to develop a cooperative agreement between the District and the County.

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s) Polk County Natural Resources
Project Manager SIMS, SHELLEY
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a high priority. The project was identified within the Watershed Management Plan completed for the Wahneta Canal and will improve natural systems and water quality.

Description

This project is in response to a cooperative funding request from Polk County for the design and permitting of the restoration of Lake Gwyn, a 120 acre depressional wetland east of the community of Wahneta located within the Wahneta Canal watershed that drains directly to Peace Creek. This project was one of three projects identified for restoring floodplain storage and wetland functions in this watershed. The Wahneta Canal Watershed Management Plan, funded by the County and Basin Board, was completed in 2005. The Wahneta Canal watershed covers an area of 43 square miles and is a sub-basin within the Peace Creek 232 square mile watershed, which is part of the Peace River headwaters. The restoration of Lake Gwyn was identified in the WMP as the most viable option since most of the land needed for the project is under ownership by the State of Florida. The restoration project will include the placement of a control structure at the outfall of the lake in order to restore floodplain storage and wetland functions, while also improving flood conveyance within the Wahneta Canal drainage area. Restoring the natural storage and wetlands within the study area through the use of a control structure will also provide additional storage that can be released when needed to help restore the required minimum flows of the upper Peace River.

Benefits

The project will re-establish the historic surface water levels to provide additional storage volume to attenuate flooding of the Peace Creek canal and assist in maintaining the minimum flows in the Upper Peace River. The additional open water will provide aquatic habitat, an improved fishery, and increase recharge of the groundwater sources in the area.

Costs

The FY2008 project cost is \$150,000 for design and permitting, with Polk County contributing \$75,000 and the District contributing \$75,000. The County may requesting future funds for construction once design is complete. District funds shown in the table include staff salaries.

Additional Information

Lake Gwyn was once an open water body drained following the construction of the Wahneta Farms Canal that bisects the lake diagonally from north to south. Although control structures were installed in an attempt to maintain lake levels, the historic inflows from Winter Haven now bypass the lake due to high berms along the canal, resulting in dry conditions the majority of the time. In 2005, Polk County entered into a 50 year lease agreement with the State of Florida's Board of Trustees for 67.90 acres which encompass the western shoreline of the lake. This lease secures half of the property under State ownership. Obtaining easements over the remainder of the lake bottom is required in order to complete restoration of the entire lake.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	45,484	375,000	420,484
District Budgeted - Outside Revenue					
Water Protection & Sust T. F. (Surface Wtr Rstr)	0	0	37,500	0	37,500
Project Funds Not Budgeted by the District					
Polk County Natural Resources	0	0	75,000	375,000	450,000
			Total		\$907,984

Status As Of:

Charlotte - Imp. BMPs Greater Port Charlotte

Project Type	Cooperative Funding
AOR(s)	Flood Protection
Basin(s)	Peace River
Cooperator(s)	Charlotte County
Project Manager	FRIES, GEORGE
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a medium priority. This project is implementation of BMPs. The structures will improve flood protection on several intermediate system waterways through Greater Port Charlotte with some water quality benefits. A senior administrator has provided confirmation that the County will budget the project for FY2008 funding.

Description

This is a multi-year funded project to perform the Implementation of Best Management Practices (BMPs) element of the District's Watershed Management Program (WMP) for a portion of Greater Port Charlotte in Charlotte County. Implementation of BMPs includes the following tasks: design, development of construction documents, construction permitting, land acquisition, bidding and contractor selection, construction of the BMPs and construction engineering and inspection. The Greater Port Charlotte area was developed prior to District flood protection and current water quality regulations (pre-1984). Residential development coverage is in a range of 50-70 percent impervious. Property damage, with numerous repetitive flood loss claims and roadway washouts are flood damage issues to be addressed by the proposed improvements to the stormwater management infrastructure. Approximately 10 square miles of the residential area has significant yard flooding with moderate property damage for a 25-year storm event and significant flood damage occurs in homes during a 100-year storm event. The resolution of flood Level of Service (LOS) deficiencies lies in a comprehensive approach to watershed management and resolution of development practices within the 100-year floodplain. For FY2008 the County is requesting \$1,420,000 in cooperative funding to construct Structures FOR2.77, DOR3.70 and MOR3.91 and to design and permit Structures SUN4.27, FOR1.72 and ELK1.61. In addition, the County is proposing to delete four structures from the current agreement (FOR3.21, NIA4.30, ELK3.22, and YAL3.61) and add six structures (DOR4.75, DOR4.89, SUN4.70, LIO4.34, LIO4.03, and MOR5.08).

Benefits

This project will improve level of service deficiencies in Greater Port Charlotte by providing increased flood protection to the homes and businesses along the waterways. The existing flood control structures were constructed twenty-five to thirty years ago of galvanized steel sheeting and are rusted and deteriorated. The replacement structures of reinforced concrete will have a substantially longer lifespan and will be better able to control water surface elevations in the area.

Costs

Funding for this project has been provided in the Peace River Basin Board budgets for FY2000 (\$708,558); FY2001 (\$791,500); FY2002 (\$487,000); FY2003 (\$500,000); and FY2004 (\$75,000) for a total funding commitment to date of \$2,562,058. The total projected funding for this project through FY2008 is \$8,396,000 of which the District's multi-year share is \$3,982,058 and the County's share is \$4,413,942. For FY2008 the funding amount is \$2,840,000 of which the Basin Board's share is \$1,420,000 and the county's share is \$1,420,000. Based on the most recent cost estimates in the County's Stormwater Management Master Plan an additional \$22 million may be needed in future years for implementation projects. The County is requesting cooperative funding of up to 50% of these costs in future years. The District funding amounts shown in the table includes staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of BMPs, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems while achieving flood protection. In 1996, the District and the County completed a Stormwater Management Master Plan, targeting the Newgate and Oyster Creek intermediate conveyance systems in the Cape Haze Area, which is located in west Charlotte County. In 1998 the District and County completed a Stormwater Management Master Plan, targeting nine major intermediate conveyance systems, four in the Greater Port Charlotte Area and five in the South County Area. Both master plan efforts constitute the Greater Port Charlotte Stormwater Management Master Plan, which outlines a 5-year implementation plan of stormwater management infrastructure improvements to improve the LOS to the targeted levels expressed in the County's Comprehensive Plan. The total amount identified in the master plan's implementation plan for stormwater management infrastructure improvements was projected to be \$13,496,842 in 1998 and is now (2007) estimated to cost \$30,310,000. FY2000, FY2001 and FY2002 funding provided for the replacement of 16 structures in the Fordham Watershed and 7 structures in the Little Alligator Watershed. FY2003 funding was for the design and construction of 2 structures in the Fordham Watershed and FY2004 funding was for design and permitting of 6 structures for a total of 31 structures. The total contract

Charlotte - Imp. BMPs Greater Port Charlotte



amount is now \$5,556,000 with the District's share of \$2,562,058 (47%). A cooperative funding expenditure agreement with Charlotte County has been developed to complete the Implementation of this BMP. This is a multi-year funded project that will require a cooperative funding request each fiscal year until completed. The County is managing the project, where the District project manager must approve any agreements to accomplish project tasks.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	2,587,238	1,344	502,335	11,000,000	14,090,917
Project Funds Not Budgeted by the District					
Charlotte County	2,993,942	0	1,420,000	11,000,000	15,413,942
			Total		\$29,504,859

Critical Project Milestones	Projected	Amended	Actual
1. Critical Project Milestones			
Original contract execution	7/13/00		7/13/00
2. First Amendment (FY2001 Funding)			
Basin Bd approval of 1st amendment	12/31/00		12/8/00
Gov Bd approval of 1st amendment	12/31/00		12/8/00
1st Amendment to Charlotte County	1/31/01		1/22/01
1st Amendment Execution	2/28/01		3/15/01
3. Second Amendment (FY2002 Funding)			
2nd amendment to Charlotte County	11/30/01		11/15/01
Basin Bd approval of 2nd amendment	12/31/01		10/16/01
Gov Bd approval of 2nd amendment	12/31/01		10/25/01
2nd amendment execution	1/31/02		1/7/02
4. Third Amendment (FY2003 Funding)			
Basin Bd approval of 3rd amendment	6/11/03		6/11/03
Gov Bd approval of 3rd amendment	6/24/03		6/24/03
3rd amendment to Charlotte County	7/15/03		6/11/03
3rd amendment execution	10/15/03		7/9/03
5. Fourth Amendment (FY2004 Funding)			
4th amendment approved by Charlotte County	12/7/03		12/7/03
4th Amendment Execution	12/31/03		12/23/03
5A. Fifth Amendment (Time Extension)			
Basin Board Approval of 5th Amendment	10/8/04		10/8/04
Governing Board Approval of 5th Amendment	10/26/04		10/26/04
5th Amendment Executed:	11/15/04		1/27/05
6. Greater Port Charlotte Area			
20. Structure DOR 3.70			
21. Structure MOR 3.91			
11. Structure NIA 2.90	12/31/01		12/31/01
24. Structure LIO 3.52	12/31/01		12/31/01
6. Structure FOR 5.11	9/30/02		
4. Structure YAL 3.90	12/31/02		12/31/02
7. Structure NIA 3.48	12/31/02	12/31/07	
8. Structure NIA 5.09	12/31/02		
9. Structure NIA 5.72	12/31/02		
13. Structure ELK 2.67	12/31/02	9/30/08	
14. Structure ELK 2.15	12/31/02	12/31/04	12/31/04
15. Structure ELK 3.45	12/31/02		12/31/02
16. Structure ELK 1.61	12/31/02		
17. Structure ELK 4.56	12/31/02		
19. Structure MOR 2.50	12/31/02		12/31/02
22. Structure HAV 4.33	12/31/02		
23. Structure HAV 4.84	12/31/02		
1. Structure FOR 3.21	12/31/03		
2. Structure FOR 2.77	12/31/03		
3. Structure FOR 2.49	12/31/03	12/31/07	
5. Structure FOR 1.72	12/31/03		
10. Structure NIA 4.30	12/31/03		

12. Structure ELK 3.00	12/31/03	9/30/08	3/15/07
18. Structure ELK 3.22	12/31/03		
25. Structure SUN 4.27	9/30/04		
26. Structure DOR 4.22	9/30/04		
27. Structure MOR 4.42	9/30/04		
28. Structure SUN 3.65	9/30/04		
29. Structure FOR 4.60	9/30/04		
30. Structure YAL 3.61	9/30/04		
31. Structure HAV 5.72	12/31/07		
7. Contract Complete			
Cooperator Agreement Expiration	12/31/05	12/31/09	

Status As Of: July 05, 2007

Status History: The contract is amended each year when new funding is made available through the Basin Board. The First Amendment was executed for a total contract amount of \$3,432,000, with the District funding up to a maximum of \$1,500,058. The Second Amendment revised the Proposed Project Plan to readjust for completed improvements, to incorporate FY2002 funds and added eight structures in the Greater Port Charlotte area. The amended total contract amount was \$4,346,436 with the District funding up to a maximum of \$1,987,058 (previous fiscal years \$1,500,058 plus \$487,000 from FY2002). The Third Amendment added four structures and the Fourth Amendment added six structures. The County has found the actual contract costs for the structures to be significantly higher than 1997 cost estimates from the Master Plan. These increases in the project costs are mainly because of price increases in concrete and reinforcing steel. The County prepared new cost estimates that are reflected in the Revised Proposed Project Plan. The Fifth Amendment to the agreement revised the contract amount to be \$5,470,225 with the District funding up to a maximum amount of \$2,562,058, and with the County's share of the cost being \$2,908,167. The Fifth Amendment revised the funding timetable, changed the project completion date from December 31, 2007 to December 31, 2009 and added one additional structure to the project. The County did not request any additional cooperative funding for FY2005, FY2006 or FY2007 but has requested funding for FY2008. In addition the County is proposing to delete 4 structures from the project plan but add 6 others. The estimated total overall cost for the structure replacement plan is now \$30,000,000. Work on structure ELK 3.00 is complete. **Current Status:** Work on structure FOR 2.49 is complete and this brings the number of completed structures to eight of the 31 total structures. The County has been reimbursed for the work. Work on structure NIA 3.48 is nearing completion.

Lake Wales - Imp. BMPs Twin Lakes

Project Type Cooperative Funding
AOR(s) Flood Protection
Basin(s) Peace River
Cooperator(s) Lake Wales
Project Manager FRIES, GEORGE
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a medium priority. This project is implementation of BMPs. This project will provide a level of flood protection for the Twin Lakes area by diverting flood flow via a high-capacity pump to Lake Altamaha for subsequent discharge to Peace Creek through the existing 48-inch diameter outfall. A senior administrator has provided confirmation that the city will budget the project for FY2008 funding.

Description

This is a multi-year funded project to perform the Implementation of Best Management Practices (BMPs) element of the District's Watershed Management Program (WMP) for the Twin Lakes Watershed. Implementation of BMPs includes the following tasks: design, development of construction documents, construction permitting, land acquisition, bidding and contractor selection, construction of the BMPs and construction engineering and inspection. The watershed covers an area of 0.6 square miles and is located in the City of Lake Wales. The goal of this improvement is to minimize flooding in the residential areas surrounding Twin Lakes. A Watershed Management Plan for the City of Lake Wales has been completed through a cooperative funding agreement with the District (K734). The WMP study area included the City of Lake Wales as well as areas outside the City limits that are served by the City's drainage system. One of the projects identified in the WMP for providing adequate flood protection is the Twin Lakes Flood Protection project. **For FY2008** the City is requesting funding to design and construct a 23-cfs pumping station and force main from Twin Lakes to Lake Altamaha for subsequent discharge to Peace Creek through the existing 48-inch diameter outfall. A channel/pipe connection will be constructed between the east and west lakes so they can be controlled and pumped from a single location on the westerly edge of the two lakes.

Benefits

The project will provide the City with the ability to manage water elevations in Twin Lakes and prevent extensive structural flooding, as well as road flooding for adjacent roads, including potentially S.R. 60. Water quality benefits may be provided if pump discharges are run through a pre-fabricated treatment system such as a CDS or Vortex unit.

Costs

The total budgeted amount for this project is \$600,000 of which the District's share is \$300,000 and the City's share is \$300,000. Since this is a multi-year funded project, for FY2008 \$150,000 is included in the Basin Board's budget; future funding is required to complete the project. The probable construction costs are based on a BMP alternative analysis developed by the cooperator.

Additional Information

Water levels in Twin Lakes rose significantly during 2004 and 2005. The water elevation reached 124.5 NAVD, that is 5.4 feet above the low lake guidance level of 119.10 NAVD. Seven apartments in an apartment complex located east of the lakes flooded once and two apartments flooded on a second occasion during this time frame. Computer modeling results indicate that flooding elevations during the 100 year/5-day storm event would exceed those in 2004-2005 by over 14 inches. Under those conditions, numerous other apartment units would also experience flooding and water elevations would be within two feet of the S.R. 60 road grade. S.R. 60 is an evacuation route. In addition, it is anticipated that a 100-foot portion of Grove Avenue would experience flooding depths up to 18 inches. Currently the City does not have a readily available way to reduce lake levels. The pumping facility will utilize a portable pumping unit to allow use of the pump at other locations and to reduce maintenance costs. The facility will include pump connections for rapid installation of the portable pump. Funding is included to begin the implementation of the BMP. A cooperative funding expenditure agreement with the City will be developed contingent on the approval of future funding to complete the Implementation of BMPs. This is a multi-year funded project that will require a cooperative funding request each fiscal year until completed. The project will be ranked and compete for funding in future fiscal years. The City will manage the project, where the District project manager must approve any agreements to accomplish project tasks.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	152,126	150,000	302,126
Project Funds Not Budgeted by the District					
Lake Wales	0	0	150,000	150,000	300,000

Total

\$602,126

Status As Of:

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) Polk County
Project Manager ARNOLD, DAVE
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a low priority. This project is implementation of BMPs. The BMPs will target flood protection and there may be opportunities to enhance, and restore water quality and natural systems. It is ranked low because the BMP alternatives analysis will not be completed until late 2008 at the earliest. Therefore, this request is premature, and the County should re-submit a request for funding in the future.

Description

This is a proposed multi-year funded project to perform Implementation of Best Management Practices (BMPs) element of the District's Watershed Management Program (WMP) for the Lakes Crooked, Clinch, and Reedy watershed. This BMP project will implement capital improvements recommended in the Lakes Crooked, Clinch, and Reedy Watershed Plan (project L353). The lakes Crooked, Clinch, and Reedy watershed covers an area of approximately 65 square miles within Polk County. Implementation of these BMPs will complete the enhancement/restoration of the lake conveyance system by continuing improvements begun in project (L352) to replace the Lake Clinch outfall to Reedy Lake. Implementation of BMPs includes the following tasks: design, development of construction documents, construction permitting, land acquisition, bidding and contractor selection, construction of BMPs, and construction engineering and inspection. The proposed BMPs will address level of service deficiencies, lake level management, and restoration/enhancement of the lakes Crooked, Clinch, and Reedy conveyance system.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain and water quality management.

Costs

The total proposed budget for this project is \$1,000,000, funded in FY2008, with Polk County contributing \$500,000, and the Peace River Basin contributing \$500,000. If future funding is needed to complete the project, another funding proposal will be required.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of BMPs, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies. A cooperative funding expenditure agreement with the County will be developed for Implementation of BMPs. The County will manage the project, where the District project manager must approve any agreements to accomplish project tasks.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	500,183	0	500,183
Project Funds Not Budgeted by the District					
Polk County	0	0	500,000	0	500,000
			Total		\$1,000,183

Status As Of:

Project Type Cooperative Funding
AOR(s) Flood Protection, Management Services
Basin(s) Peace River
Cooperator(s) Sun N' Lake of Sebring
Project Manager FITOS, EKATERINA
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a low priority. The District emphasizes the funding of GIS data collection projects as opposed to software development projects. Additionally, this project covers a small geographic area, and does not tie into District regional GIS activities. The cooperator has requested funding match consideration based on the Rural Economic Development Initiative (REDI), as reflected in the funding distribution. Therefore, this project is ranked as a low priority.

Description

This cooperative funding project would entail supporting Sun 'N Lake of Sebring Improvement District (SNL) in the further development of an ArcIMS online Geographic Information System (GIS) database and web application. District funding would be used to assess best methodologies to centralize existing data sets into a dynamic and accurate database which includes integration of existing GIS layers, and creating real-time GIS links to the SNL ArcIMS web service. Development has already been initiated by SNL to create an online GIS system, and is seeking cooperative funding from the District to be used for enhancements and maintenance to this web service. SNL consists of 7,000 acres northwest of the City of Sebring and southeast of the City of Avon Park. This project will allow SNL to meet services and obligations to construct and maintain improvements within its jurisdiction.

Benefits

Tentatively, this project would incorporate digital topographic data collected by the District, and other digital data to help manage future development, and provide mechanisms for preventing residential flooding, improving quality of storm water run off, implementing water conservation measures, and other best management practices to protect lake water quality within SNL. SNL anticipates this GIS system could help reduce hurricane damage to flood control structures which would in turn minimize public assistance from FEMA within this area in Highlands County.

Costs

The total FY2008 budget is \$45,549 with the District contributing \$34,161.75 and the cooperator contributing \$11,387.25. Sun 'N Lake is the lead on this project, and the Peace River Basin Board will reimburse Sun 'N Lake for 75% of the costs for contractual services. The cooperator has requested funding consideration based on the Rural Economic Development Initiative (REDI), as reflected in the funding distribution.

Additional Information

Sun 'N Lake will administer this project. The Peace River Basin Board will reimburse Sun 'N Lake for 75% of all costs associated with contractual services. Currently, there is no coordination with other ongoing or approved District projects. The cooperator has put in requests for FY2008 funding of a Watershed Management Plan, Water Reuse, and Waterwise Education Program. The cooperator can meet all funding requirements for the project.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	34,162	0	34,162
Project Funds Not Budgeted by the District					
Sun N' Lake of Sebring	0	0	11,388	0	11,388
			Total		\$45,550

Status As Of:

Sun 'n Lake - WMPlan Sun 'n Lake Improvement District

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) Sun N' Lake of Sebring
Project Manager FRIES, GEORGE
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a Low Priority. Sun 'n Lake is requesting funding for a Watershed Management Plan for their residential development in Highlands County located in the Bee Branch, Carter Creek and Little Charlie Bowlegs Watersheds. It is ranked low because the District's priority is to work with local governments to develop watershed plans for a watershed, not an individual residential development. Developments are required to develop detailed information for their site in support of Environmental Resource Permits (ERPs). They will often utilize the information from a District prepared watershed plan and update the plan with more detailed information associated with their site. The District and County are currently developing a Watershed Management Plan for the Carter Creek watershed and this information will be made available to Sun 'n Lakes. The development's improvement district is seeking to reduce their matching fund requirement to 25% based on their belief that REDI funding is appropriate.

Description

This is a multi-year funded project to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the Sun 'n Lake (SNL) Improvement District Watershed. The watershed covers an area of approximately 11 square miles and is located in northwest Highlands County. Issues in SNL include concerns about future development impacts on stormwater, improvements to stormwater quality, implementation of water conservation measures and implementation of best management practices to protect lake water quality. **With FY2008** funding work on the Topographic Information, Watershed Evaluation and Watershed Management Plan elements will begin and should be completed.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) with their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies, and 2) provides a geodatabase and projected results from watershed model simulations for floodplain management and water quality management.

Costs

The total budgeted amount for this project is \$100,000 of which the District's share is \$75,000. Sun 'n Lake Improvement District, located in Highlands County, is a REDI community and is seeking a reduction of the standard 50% funding match to one where the Peace River Basin Board will fund 75% of the project costs and the city will fund 25%. For FY2008, \$100,000 is appropriated in the Basin Board's budget with revenue of \$25,000 from the Sun 'n Lake Improvement District. When each element is completed the project budget and scope may require refinement based on the information gathered. The District funding amounts shown in the table include staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of BMPs, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. A cooperative funding revenue agreement with the Sun 'n Lake Improvement District will be developed. The District will manage the project and enter into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	75,183	0	75,183
District Budgeted - Outside Revenue					
Sun 'N Lake-WMP for Sun 'N Lake (L906)	0	0	25,000	0	25,000
			Total		\$100,183

Status As Of:

City of Mulberry Reclaimed Water Project

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality
Basin(s) Alafia River, Peace River
Cooperator(s) Mulberry
Project Manager MUSICARO, MELISSA
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a low priority. This project is premature in that the City about 1 year away from having a wastewater treatment facility capable of producing reclaimed water of a sufficient quality to achieve the project objectives. In addition, the City does not have a written agreement with Polk County defining the terms of reclaimed water service, customers, or offsets. The cooperator has not yet confirmed it will include the necessary matching funds in its capital budget in FY2008. There is not sufficient data submitted to evaluate the project in terms of offsets or longevity. It is within the basin board's statutory authority to fund, and it is not the result of a permit requirement or enforcement action, and is potentially eligible for state funding through the Water Protection and Sustainability Program.

Description

The project consists of design, permitting, and construction of a 3 million gallon storage tank, a pump station and approximately 20,000 linear feet (12" diameter) of reclaimed water transmission line. The proposed transmission line would transfer reclaimed water from the Mulberry Wastewater Treatment Facility to Polk County's Southwest Regional Wastewater Treatment Facility (SWRWWTF), to be used by residential customers in the SWRWWTF service area.

Benefits

The estimated flow of the proposed project is 0.25 mgd. Based on an estimated 350 customers to be served, the estimated offset is 0.17 mgd. Additional information from the cooperator has been requested.

Costs

The total project cost is estimated to be \$3,621,145, and the Peace River and Alafia River Basin Boards are requested to collectively fund 50%, \$1,810,572. Funding will be based on multi-year request by the cooperator. Funding is requested by both the Peace River and Alafia River Basin Boards since the SWRWWTF service area is in both Basins, and both Basins would receive the benefit. Both the Alafia River and Peace River Basin Board are requested to fund \$250,000 in FY2008.

Additional Information

This alternative water supply project is contingent upon upgrading the City of Mulberry's existing wastewater treatment plant (WWTP) to be able to provide public access quality effluent to Polk County. The upgrade has not occurred, and until the City has been permitted to operate its plant as a public access system from the Department of Environmental Protection (DEP) flows cannot be delivered to Polk County. A number of items must be cleared up before the project can be approved for funding: 1) flow and offset needs to be confirmed, (2) number and type of customers confirmed (3) point of connection (4) signed 20-year agreement, and (5) permit modification for public access reuse quality. The City has applied to DEP for the construction permit to build the treatment processes/filters required to treat the reclaimed water to sufficient quality (public access) to deliver to Polk County, but failed to apply for the necessary permit modification for a new discharge to Polk County and an approved operating protocol.

The City does not have a 20 year agreement with Polk County for the delivery of reclaimed water from the City, nor the confirmation that the infrastructure will be used for beneficial purposes, to design capacity, for 20 years, as required in cooperative agreements. The City has provided the District with a letter of intent, signed by both the City and Polk County, but describes it as "non binding". It remains unclear how the County will use the reclaimed water from the City, and who/how the offsets will be accountable to the District. The project generally proposes transferring reclaimed water from the Mulberry Wastewater Treatment facility to Polk County's Southwest Regional Wastewater Treatment Facility (SWRWWTF), to be used by residential customers in the SWRWWTF service area, and suggests details can be determined at a later date.

Funding is requested by both the Peace River and Alafia River Basin Boards since the SWRWWTF service area is in both basins, and both basins would receive the benefit. The City's consultant estimated project design to cost \$30,000, leaving the remainder of the total project cost, or \$3,591,145, for construction.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
011 Alafia River Basin	0	0	250,000	655,286	905,286
020 Peace River Basin	0	0	250,000	655,286	905,286
Project Funds Not Budgeted by the District					
City of Mulberry	0	0	500,000	1,310,572	1,810,572

Total

\$3,621,144

Status As Of:

Lake Alfred Vehicle Wastewater Treatment

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality
Basin(s) Peace River
Cooperator(s) Lake Alfred
Project Manager WHITE, BRENT
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Funds as a low priority. The cost benefit ratio of this project (\$295/1,000 gallons) is considerably higher than similar conservation-type projects the District has funded in the past. There is sufficient data submitted to evaluate the project and it is not a result of a permit requirement or enforcement action.

Description

This project involves the installation of a closed-loop biological wash water vehicle treatment system at the City of Lake Alfred Central Garage and Motor Pool facility. The system would be used as a vehicle wash area servicing all major vehicles and equipment used on a daily basis by the Central Garage and Public Works staff. The system will consist of a self-contained, closed-loop continuous feed washing apparatus that will allow all excess water produced by the wash cycle to be collected, cleaned and recycled back into the system for reuse. The system utilized a biodegradation rank and aeration system to separate and biologically treat all pollutant media (hydrocarbons, etc.) from the excess water, returning to the outflow system clean usable wash water.

Benefits

The water savings associated with this project are estimated to be 229 gallons of potable water per day or 83,585 gallons per year.

Costs

The total project costs are \$101,600. The Peace River Basin Board 50 percent share would be \$50,800. The cost benefit for the project, using the total cost amortized over 20 years at 8 percent interest, is \$295.76 per 1000 gallons of water.

Additional Information

Per the applicant, this project will also allow the City of Lake Alfred Fleet Department to meet a proposed FDEP rule mandating such facilities to incorporate such a system into their vehicle maintenance programs and further meet their NPDES stormwater permit.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	50,800	0	50,800
Project Funds Not Budgeted by the District					
City of Lake Alfred	0	0	50,800	0	50,800
			Total		\$101,600

Critical Project Milestones

	Projected	Amended	Actual
Agreement Executed / Bid List to WMD	9/1/07		
Select Contractor / Develop Scope of Work	10/1/07		
Design Documents to District	11/1/07		
Final Design Certification / Application for Construction Permits	11/15/07		
Construction 30% Completed	11/25/07		
Construction 60% Completed	12/10/07		
Construction 90% Completed	12/30/07		
Completion Certification/Begin Monitoring	1/20/08		
Final Report	1/25/08		
Final Invoice to WMD	1/30/08		
Final Report	1/30/08		
Contract Close Out	2/5/08		

Status As Of: July 01, 2007

This project was given a low rating for FY2008 funding. Discussions with the cooperator addressed the program's cost-effectiveness.

Project Type	Cooperative Funding
AOR(s)	Water Supply, Flood Protection, Water Quality, Natural Systems
Basin(s)	Peace River
Cooperator(s)	Central Florida Regional Planning Council
Project Manager	SPRINGSTEAD, CHAN
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a low priority. Project benefits not well defined. Scope of work is part of Regional Planning Council's normal responsibilities to assist local governments.

Description

Effective water resource protection depends on proper management of surrounding land resources. In Florida, sole authority for land use planning and permitting rests with local government. Local land use decisions are affecting water resources and will continue to do so for many years to come. In the Peace River Watershed (Watershed), the opportunity still exists to ensure that local land use decisions are consistent with proper watershed management planning. Much of the Watershed area is still undeveloped but is facing explosive growth. Unfortunately, local governments may not have the tools or expertise to ensure that local land use decisions are consistent with sound watershed management policies. The proposed project would study the relationship between existing land use planning policies within the Watershed and the goals and objectives of managing the Watershed for hydrologic, habitat, and water quality purposes. Most of the Watershed lies within DeSoto, Hardee, and Polk Counties, and falls under the per view of the Central Florida Regional Planning Council (CFRPC). Portions of Sarasota, Manatee, Charlotte, and Highlands counties are also included within the Watershed, but they are relatively small in relation to the overall Watershed area. The CFRPC wishes to study the policies and programs of the state and regional agencies involved with watershed management and ensure that local governments are aware of the opportunities to incorporate these policies into their local comprehensive plans.

Benefits

Land planning policies that would be reviewed include, but are not limited to the following:

The conservation of environmentally sensitive areas such as floodplains, wetlands, pinewoods, and high quality wildlife habitat - including the Integrated Habitat Network as managed by the Florida Department of Environmental Protection (FDEP) Division of Mined Lands

The relationship of urban land uses, both existing and future, on the quality of water entering the Peace River, including management of septic tank pollutant loadings and stormwater runoff loadings from impervious areas

The relationship of agricultural land uses to the quality of water entering the river

The relationship of land uses with the hydrology of the river, given existing stormwater quality and quantity permitting practices

Recommendations on the pursuit of local land stewardship programs to conserve open spaces while providing land for urban uses

The provision of adequate water supply given that new laws require concurrency with water supply plans

Recreational use of the river, including access and inter-county coordination of the river corridor areas

Adequate setbacks and buffering of existing and future land uses from the river and stream corridors to ensure wildlife and hydrologic benefits

Implementation of the Peace River Management Plan as being developed by FDEP

Development of land use policies that would improve water quality for purposes of TMDL planning

Costs

The total cost of the project is \$40,000, with the applicant requesting the Peace River Basin Board to contribute 50% or \$20,000.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	20,000	0	20,000
Project Funds Not Budgeted by the District					
Central Florida Regional Planning Council	0	0	20,000	0	20,000
			Total		\$40,000

Status As Of: June 04, 2007

Project Ranking is Low.

Dundee Reclaimed Water System Expansion



Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality
Basin(s) Peace River
Cooperator(s) Dundee
Project Manager NOURANI, MEHRSHAD
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

This project is recommended as low priority. While the proposed project addresses water supply priorities, it is premature in that the plant needs to be upgraded to meet the requirements for public access distribution of reclaimed water. In addition, the Town is currently in the preliminary design stage of a District-funded reclaimed water project (L553), which will not be completed until 2009 and contains parts of the infrastructure required for this proposed project. The proposed project is within the District's statutory authority to fund and is not the result of a permit requirement or enforcement action.

Description

This project is for the design and construction of expansion of the Dundee Reclaimed Water System to add approximately 21,600 lineal feet of 12" diameter reclaimed water transmission mains. The Project will transmit reclaimed water from the Dundee Regional Wastewater Treatment Facility to the Dundee Regional Utility Service area to existing and new residential sites for irrigation.

Benefits

This project will provide approximately 649,800 gallons per day of reclaimed water, offsetting approximately 324,900 gallons per day of potable water. The application also addresses the benefit of system efficiency, via pipeline looping.

Costs

Total project costs are \$2,135,370 and the District's contribution, requested of the Peace River Basin Board, is anticipated to be 75 percent, or \$1,601,527. The remaining estimated balance \$533,843 will be funded by the Town from the Utilities reserves, connection fees, and other grants and loans. The Town is also seeking grants and loan funding through the USDA Rural Utilities Service. The USDA RUS program funded the initial design and construction of the WWTF. The cooperator has submitted the project for Rural Economic Development Initiative (REDI) funding consideration.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	1,601,527	0	1,601,527
Project Funds Not Budgeted by the District					
Town of Dundee	0	0	533,843	0	533,843
			Total		\$2,135,370

Status As Of:

Project Type	Cooperative Funding
AOR(s)	Water Supply
Basin(s)	Peace River
Cooperator(s)	Polk County Utilities
Project Manager	RAMOY, ALISON
Task Manager(s)	
Status	Proposed Coop. Funding Application

Recommendation

Fund as a low priority. The effectiveness of this technology has not been evaluated in Florida landscapes, and ongoing studies of similar technologies will not be complete for over a year. The savings proposed by Polk County Utilities are extremely high and unrealistic. Furthermore, customer data used to determine current irrigation use is not representative of the project's targeted customers. The applicant has been advised to focus on one particular area with similar water use patterns, instead of the entire service area. A higher ranking may be justified if the applicant can provide a defensible savings estimate and identify potential customers' irrigation water use. There was adequate information available to evaluate the project and the cooperator has confirmed it will include the necessary matching funds in its capital budget in FY2008. The project is within the District's statutory authority to fund and is not the result of a permit requirement or enforcement action.

Description

This outdoor water conservation project is being designed by Polk County Utilities (PCU) as a pilot project aimed at high-use irrigation water users. PCU will offer a \$150.00 incentive to encourage its customers to replace conventional timers with evapotranspiration (ET) demand-based timers. This technology limits the irrigation water usage to what is essential for the landscaping, and Polk County claims that it will reduce irrigation demands up to 85%. Up to 100 residential or commercial customers of potable or reclaimed water services will be eligible for reimbursement of the cost of the ET-based irrigation controller. The end product will be a report comparing each user's water bill before and after installation to gauge the water and money saved by using this technology. If successful, an informational pamphlet will then be produced to encourage all of the county's irrigation customers to upgrade their timers.

Benefits

PCU estimates the project will save up to 12,084 gallons of water per day (gpd). This is based on their assumption that the controllers will save up to 85% of typical irrigation use.

Costs

The total project cost, including the timer rebates and administrative fees, is \$21,000. The Peace River Basin Board is requested to fund 50 percent, or \$10,500 in FY2008. Based on PCU's savings estimates, the cost amortized at 8 percent over 5 years, is \$1.16 per thousand gallons saved.

Additional Information

The ultimate goal for PCU is to encourage the County Administration to incorporate this technology into the requirements for new housing within the county. The program will be operated in the following manner. The potential rebate customer will contact PCU with their request for the timer rebate. PCU would then confirm that they are a PCU irrigation customer, and send a rebate application. The customer would then return the completed application and receipt of purchase. A contracted company, trained in irrigation timer protocol through an organization such as the Florida Irrigation Society, will then inspect the irrigation system timer (including rain sensor), and if it passes, issue the rebate check. PCU estimates these timers to cost upward of \$300.00 each. The rebate amount of \$150.00 would cover half of the initial cost of the timer, not including labor. Confirmation inspections of timer installations and issuance of rebate checks will be handled through a contracted administrating company, at the estimated cost of \$60.00/customer.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	10,500	0	10,500
Project Funds Not Budgeted by the District					
Polk County	0	0	10,500	0	10,500
			Total		\$21,000

Status As Of:

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality
Basin(s) Peace River
Cooperator(s) Winter Haven
Project Manager ANTOINE, TAMMY
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a low priority. While the proposed project generally addresses water supply priorities, it is premature in that the plant (Plant 3) receiving the flows as a result of the interconnection does not have the permit required to provide reclaimed water to public access uses. It has been indicated in the City's reuse master plan (L483, funded in FY2006) that necessary improvements to upgrade plant 3 should be completed in early 2008. This project is within the District's statutory authority to fund and is not the result of a permit requirement or enforcement action.

Description

This alternative water supply project includes the design, permitting, and construction of approximately 55,000 linear feet of 20-inch diameter reclaimed water transmission main and necessary appurtenances to interconnect wastewater treatment plants (WWTPs) 2 and 3.

Benefits

The City estimates the project can provide approximately 12 mgd of reclaimed water to the region. The estimated offset is base upon a transmission system that is both fully funded and constructed, and reclaimed water is delivered to the end user. The potable water offset has been estimated to be 50 percent for the area that this system will serve.

Costs

The total estimated cost of this project is \$11,276,493 of which the Peace River Basin is requested to fund \$5,638,247. Funding in the amount of \$702,777 is requested in FY2008 and \$4,935,470 will be requested in future years. All of the FY2008 funds requested are for design of the project. An estimated cost in terms of benefit cannot be determined.

Additional Information

The purpose of interconnecting the two WWTPs is to expand and properly manage the reclaimed water supply. Plant 2 is located in the northern part of Winter Haven and currently generates 1.0 mgd of reclaimed water quality effluent. The effluent from Plant 2 is the only one that is being used to provide the community with reclaimed water. This effluent has been used for irrigating golf courses, cemeteries, residential developments and numerous parks. Plant 3 is located south of Winter Haven and currently generates approximately 4.0 mgd of wastewater effluent, and does not have a permit allowing public access to the resource. Reclaimed water is currently used to irrigate fields owned by the City, and the rest is discharged to the Peace Creek. This project is expected to take approximately three years to complete. Of the total project cost of \$11,276,493, approximately 88% (\$9,870,938) is expected to be needed for construction, and the remainder (\$1,405,555) for design and administration.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	702,777	4,935,470	5,638,247
Project Funds Not Budgeted by the District					
City of Winter Haven	0	0	702,777	4,935,470	5,638,247
			Total		\$11,276,494

Status As Of:

Polk City Reclaimed Water Restoration Project

Project Type Cooperative Funding
AOR(s) Water Supply, Water Quality, Natural Systems
Basin(s) Peace River
Cooperator(s) Polk City
Project Manager ANDRADE, ANTHONY
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Do not fund. Although District staff supports the concept of natural system restoration/creation, the project may not be in the best long term interest of the area's water resources. The city is requesting a large increase to their District water use permit related to new development, and District staff suggests that it would be more beneficial to utilize the city's reclaimed water resources to meet those related irrigation demands, rather than in the proposed created wetland project. The project is not in a WUCA; however it is in an area experiencing increasing water demands. There was adequate information available to evaluate the project and the cooperator has confirmed it has included the necessary matching funds in its capital budget in FY2008. The project is within the District's statutory authority to fund and is not the result of a permit requirement or enforcement action. The City ranked this project as the one and only priority on their FY2008 District funding requests. This project includes the construction of infrastructure that makes an alternative water supply available to water users, and is potentially eligible for state funding through the Water Protection Sustainability Program.

Description

This alternative water supply project consists of the design, permitting and construction of advanced reclaimed water treatment (membrane bioreactors), advanced disinfection (UV), transmission mains, a storage pond, a high service pump station, and the creation of a constructed wetland in the City of Polk City. The project includes 1 to 1.5 MGD capacity membrane bioreactors (MBRs), a 3 MGD UV disinfection system, a 3MG storage pond, a 6 MGD high service pump station, a 30 acre constructed wetland/upland system, approximately 5000 linear feet of 18-inch and 12-inch diameter reclaimed water transmission mains. The project will create and deliver extremely high quality reclaimed water necessary for the natural system restoration of 30 acres which include wetlands. The system will be designed to be utilized by the public as a park and nature center.

Benefits

The project will initially provide 0.5 mgd of reclaimed water to offset/recharge 0.5 mgd of potable quality water through natural system creation/restoration in the Green Swamp with water resource benefits to the Peace River. The project flows and benefits are anticipated to increase to 1.0 mgd within 5 years of completion, and up to 3.0 mgd at ultimate build-out. The project will recharge the aquifer, provide water quality enhancement, create wildlife habitat, and provide public viewing through a boardwalk and hiking trails.

Costs

The total cost of this innovative reclaimed water project is estimated to be \$3,902,650 and the District's share is expected to be 50 percent, or \$1,951,325. The Peace River Basin Board is requested to fund \$181,325 in FY2008 and the remaining \$1,770,000 will be requested in future fiscal years. The cost amortized at 8 percent over 30 years is \$1.88 per thousand gallons offset.

Additional Information

While the project is intriguing and could provide insight into potential future natural system reuse projects in other parts of the District, this project may not be the best long term utilization of the city's reclaimed water resources. The city anticipates increasing potable water demands related to new development, and it may be in the best interest of the water resources to utilize reclaimed water to offset irrigation at those developments, rather than in the proposed created wetland. At project build-out the city anticipates supplying up to 3 MGD; however the offsets above only include the initial 0.5 MGD. Of the total project cost (\$3,902,650), approximately 90 percent (\$3,540,000) is expected to be needed for construction, and the remainder for design and administration. Although the footprint of the project is in the Green Swamp Basin, the project will result in water resource benefits to the Peace River Basin. Permitting precedence exists, in that the City of West Palm Beach has a much larger project, that is very similar in scope and operation.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	181,325	1,770,000	1,951,325
Project Funds Not Budgeted by the District					
Polk City	0	0	181,325	1,770,000	1,951,325
			Total		\$3,902,650

Status As Of:

Sun N Lake Reuse Feasibility Project



Project Type Cooperative Funding
AOR(s) Water Supply
Basin(s) Peace River
Cooperator(s) Sun N' Lake of Sebring
Project Manager ANDRADE, ANTHONY
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Do not fund. Although District staff supports the concept of the applicant conducting a feasibility study prior to its pursuit of a reclaimed water expansion, the applicant is out of compliance with its water use permit. Because it is the District's policy to not fund projects for utilities that are out of compliance, cooperative funding is not recommended at this time. The project is located in the SWUCA and is local in scale.

Description

This project is for a reuse feasibility/master plan that explores the feasibility of developing a reuse system associated with expanding the Sun N' Lake Wastewater Treatment Plant to public access reuse standards, and to determine the overall best use of the reclaimed water resource. The proposed plan would determine the components, sizing and costs associated with upgrading the plant to produce public-access reuse quality, identify potential users of the reuse water, potential quantities of water needed, potential offsets to groundwater, determine components, sizing and costs associated with the design and constructing the necessary storage/pumping/transmission/distribution systems, provide options to optimize beneficial use of reuse flows, and create a plan for implementing recommendations. The plan would also consider creating a reliable reuse supply, especially addressing issues associated with wet weather storage.

Benefits

Upon completion of this project, the cooperator will have a reuse feasibility and master plan.

Costs

The total cost of the feasibility project is estimated to be \$85,000 and the District's share is expected by the cooperator to be 75 percent, or \$63,750 (REDI). The Peace River Basin Board is requested to fund \$63,750 in FY2008.

Additional Information

The applicant originally submitted a multi-million dollar funding request for a design/permit/construction project involving both potable and reclaimed water systems, and did not have a funding match. However in mid-February the cooperator requested the application be modified to be only for a reuse feasibility study. The cooperator is stating it meets REDI status and has indicated that it will request the District fund at 75%. The cooperator's senior administrator indicated in their revised scope letter that this project is their top priority and also has verbally indicated that it will budget its 25 percent match of \$21,250 in its FY2008 budget. Upon discussions about this project with Regulatory and Legal Department staff, it was revealed that Sun N' Lake has been out of compliance with its water use permit. Project staff has been advised that the permittee has been overpumping. In addition, the permittee has not submitted required public supply water use information since 2003.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	63,750	0	63,750
Project Funds Not Budgeted by the District					
Sun N Lake of Sebring	0	0	21,250	0	21,250
			Total		\$85,000

Status As Of:

Highlands WMPlan Lower Jack Creek

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) Highlands County, Lake Placid
Project Manager ARNOLD, DAVE
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a high priority. Completing elements of the District's Watershed Management Program is a District priority for managing the water resource, and providing information to local governments to address land use changes and stormwater management within a specific watershed. The Cooperator submitted the project for REDI consideration.

Description

This is a proposed multi-year funded cooperative project with Highlands County to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the Lower Jack Creek Watershed. The watershed covers an area of approximately 40 square miles and is located in Highlands County. Issues in the watershed include rapid growth, natural systems preservation, flood protection, water quality, and lake level management. Proposed FY2008 funding is to complete the Topographic Information and Watershed Evaluation elements. Future funding is required to complete the Watershed Plan. Topographic information includes the acquisition of data and development of the terrain features in the Geodatabase to be used in the Watershed Evaluation. The Watershed Evaluation includes collection of existing data, GIS processing of the terrain features to establish catchments and connectivity, field reconnaissance, refinement of the terrain features and development of the hydraulic element point features. The Watershed Management Plan element includes: development of watershed parameters for a specific use, GIS processing, computer modeling, floodplain and water quality analysis, surface water resource assessment, establishment of LOS, and BMP alternative analysis.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain and water quality management.

Costs

The total proposed budget for this multi-year project is \$1,352,000, to be funded in FY2008 and future years. Under the REDI project funding split the Peace River Basin's 75% percent share totals \$1,014,000, and Highland County's 25% share totals \$338,000. The FY2008 budget is \$450,667 of which \$112,667 is revenue from the County and \$338,000 is the Basin's contribution. When each element is completed the project budget and scope may require refinement based on the information gathered.

Additional Information

A WMP includes five major elements: Topographic Information, Watershed Evaluation, Watershed Management Plan, Implementation of Best Management Practices, and Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies. A cooperative funding revenue agreement with the County will be developed as a multi-year funded project contingent on the approval of future funding to complete the WMP elements through the Watershed Management Plan. This is a multi-year funded project that will require a cooperative funding request each fiscal year until completed. If approved, the project will be ranked as a 1A project in future fiscal years. The District will manage the project and enter into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	0	676,000	676,000
District Budgeted - Outside Revenue					
Highlands Co-Lower Jack Ck WMP (L898)	0	0	0	225,334	225,334
			Total		\$901,334

Status As Of:

Highlands WMPlan Grassy Creek

Project Type Cooperative Funding
AOR(s) Flood Protection, Water Quality
Basin(s) Peace River
Cooperator(s) Highlands County
Project Manager ARNOLD, DAVE
Task Manager(s)
Status Proposed Coop. Funding Application

Recommendation

Fund as a high priority. Completing elements of the District's Watershed Management Program is a District priority for managing the water resource, and providing information to local governments to address land use changes and stormwater management within a specific watershed. The Cooperator submitted the project for REDI consideration.

Description

This is a proposed multi-year funded cooperative project with Highlands County to perform 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the Grassy Creek Watershed. The watershed covers an area of approximately 20 square miles and is located in Highlands County. Issues in the watershed include rapid growth, natural systems preservation, flood protection, water quality, and lake level management. Proposed FY2008 funding is to complete the Topographic Information and Watershed Evaluation elements. Future funding is required to complete the Watershed Plan. Topographic information includes the acquisition of data and development of the terrain features in the Geodatabase to be used in the Watershed Evaluation. The Watershed Evaluation includes collection of existing data, GIS processing of the terrain features to establish catchments and connectivity, field reconnaissance, refinement of the terrain features and development of the hydraulic element point features. The Watershed Management Plan element includes: development of watershed parameters for a specific use, GIS processing, computer modeling, floodplain and water quality analysis, surface water resource assessment, establishment of LOS, and BMP alternative analysis. The Cooperator submitted the project for REDI consideration.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain and water quality management.

Costs

The total proposed budget for this multi-year project is \$610,000, to be funded in FY2008 and future years. Under the REDI project funding split the Peace River Basin's 75% share totals \$457,500, and Highland County's 25% share totals \$152,500. The FY2008 budget is \$305,000 of which \$76,250 is revenue from the County and \$228,750 is the Basin's contribution. When each element is completed the project budget and scope may require refinement based on the information gathered.

Additional Information

A WMP includes five major elements: Topographic Information, Watershed Evaluation, Watershed Management Plan, Implementation of Best Management Practices, and Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies. A cooperative funding revenue agreement with the County will be developed as a multi-year funded project contingent on the approval of future funding to complete the WMP elements through the Watershed Management Plan. This is a multi-year funded project that will require a cooperative funding request each fiscal year until completed. If approved, the project will be ranked as a 1A project in future fiscal years. The District will manage the project and enter into purchase orders and agreements to accomplish project tasks. Future cooperative funding requests and agreements will be required for the Implementation of BMPs and Maintenance of Watershed Parameters and Models.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
020 Peace River Basin	0	0	0	228,750	228,750
District Budgeted - Outside Revenue					
Highlands Co-Grassy Ck WMP (L899)	0	0	0	76,250	76,250
			Total		\$305,000

Status As Of:

Hardee - FEMA Map Modernization

Project Type	FEMA/Map Mod.
AOR(s)	Flood Protection
Basin(s)	Peace River
Cooperator(s)	Bowling Green, Federal Emergency Management Agency, Hardee County, Zolfo Springs, Wauchula
Project Manager	LETASI, SCOTT
Task Manager(s)	
Status	Ongoing

Description

This project is to perform map modernization which includes 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the Hardee County Watershed. The watershed covers an area of approximately 637 square miles and is located in Hardee County. The watershed faces flood damage and water quality issues. Funding for the work on the Map Modernization began in FY2005.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management through the Total Maximum Daily Loads (TMDL) process for their National Pollution Discharge Elimination System (NPDES) permit requirements.

Costs

The total budget amount for this project is \$737,000. FEMA will contribute \$737,000. With FY2005 funding the work on the Map Modernization will begin. When each element is completed the project budget will be refined based on the information gathered. Future funding will be required for the Watershed Evaluation of other watersheds to complete the survey, watershed modeling development, floodplain analysis, LOS, surface water resource assessment, and alternate analysis of BMPs. The District's FY2006 funding will be used for staff salary.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies. The District is cooperating with FEMA to modernize the flood insurance rate maps (FIRMs) in Hardee County. Information developed with this project will be used to update the FIRMs representing this watershed. Staff has worked with the Federal Emergency Management Agency (FEMA) to improve and formalize the District's relationship with a federal agency that shares flood protection responsibilities. FEMA and the District executed a Cooperating Technical Partners (CTP) Memorandum of Agreement on September 14, 2001. As a CTP, the District is eligible for federal grants and matching funds to further efforts to modernize the flood insurance rate maps (FIRMs). Funds will be used to perform elements of the District's Watershed Management Program (WMP) within Hardee county. The District will execute a Mapping Activity Statement with FEMA that identifies costs, responsibilities, and specific activities to complete the FEMA Map Modernization effort for watersheds in Hardee county. The District will coordinate with the local government(s), will manage the project, and will enter into purchase orders and agreements to accomplish project tasks. With FEMA funding several tasks of the Watershed Evaluation and Watershed Management Plan elements for priority watersheds within Hardee county will be accomplished. Watersheds will be prioritized based on the needs of the local governments and the District. Because of funding constraints some watersheds will not be studied in detail. The risk information from the current FIRMs will be transferred to the modernized, digital maps. These watersheds will be studied in detail when additional funding is available through the cooperative funding process. Work on the Watershed Management Plan element for the priority watersheds will include the following tasks: survey, data management and development of watershed parameters, GIS processing, computer modeling, and floodplain analysis. Development of countywide, digital FIRMs and outreach for the successful adoption of the FIRMs will also be performed. When each element is completed the project budget will be refined based on the information gathered. Future cooperative funding request(s) will be required to complete remaining Watershed Evaluation and Watershed Management Plan tasks (e.g. LOS determination, surface water resource assessment, and BMP alternative analysis).

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	8,891	4,180	8,355	0	21,426
District Budgeted - Outside Revenue					
FEMA Mapping Activity Statement	737,000	0	0	0	737,000

		Total	\$758,426
	Projected	Amended	Actual
Critical Project Milestones			
1. Critical Project Milestones			
Cooperating Tech. Partners Memorandum of Agreement	9/14/01		9/14/01
Cooperating Technical Partners Agreement Executed	8/12/02		8/12/02
Mapping Activity Statement Executed	9/30/05		12/20/05
Develop Scoping Consultant Agreement	11/7/05		11/7/05
Draft Consultant Agreement to Management Services	11/7/05		11/7/05
Draft Agreement returned from Management Services	12/1/05		11/30/05
Scoping Consultant Contract Execution	12/30/05		1/12/06
Scoping Consultant Notice to Proceed	12/30/05		2/1/06
Scoping Consultant Contract Termination	7/21/06		12/15/06
DFIRM Consultant Contract Executed	4/15/07		3/28/07
Alligator Branch WMP Consultant (K&S) Contract Executed	5/15/07		6/6/07
Thompson Branch WMP Consultant (K&S) Contract Executed	5/22/07		6/6/07
City of Wauchula WMP Consultant (K&S) Contract Executed	6/1/07		6/6/07
Buzzards Roost Run WMP Consultant Contract Executed	6/15/07		6/19/07
Horse Creek WMP Consultant Contract Executed	7/1/07	7/16/07	
2. Digital Topographical Information			
Begin DTI for Alligator Branch	6/21/07		6/21/07
Begin DTI for City of Wauchula	6/21/07		6/21/07
Begin DTI for Thompson Branch	6/21/07		6/21/07
Begin DTI for Buzzards Roost Run	7/15/07		
Begin DTI for Horse Creek	7/21/07		
Complete DTI for Alligator Branch	9/7/07		
Complete DTI for City of Wauchula	9/7/07		
Complete DTI for Thompson Branch	9/7/07		
Complete DTI for Buzzards Roost Run	10/1/07		
Complete DTI for Horse Creek	10/7/07		
3. Watershed Evaluation			
Begin WE for City of Wauchula Watershed	9/1/07		
Begin WE for Alligator Branch	9/1/07		
Begin WE for Thompson Branch & City of Wauchula Watersheds	9/1/07		
Begin WE for Buzzards Roost Run	9/21/07		
Begin WE for Horse Creek	10/1/07		
Complete WE for City of Wauchula Watershed	1/21/08		
Complete WE for Alligator Branch	1/21/08		
Complete WE for Thompson Branch & City of Wauchula Watersheds	1/21/08		
Complete WE for Buzzards Roost Run	2/15/08		
Complete WE for Horse Creek	2/21/08		
4. Watershed Management Plan			
Begin WMP for Thompson Branch & City of Wauchula Watersheds	1/7/08		
Begin WMP for Alligator Branch	1/7/08		
Begin WMP for City of Wauchula Watershed	1/7/08		
Begin WMP for Buzzards Roost Run	1/31/08		
Begin WMP for Horse Creek	2/7/08		
Complete WMP for Alligator Branch	6/21/08		
Complete WMP for Thompson Branch & City of Wauchula Watersheds	6/21/08		
Complete WMP for City of Wauchula Watershed	6/21/08		
Complete WMP for Buzzards Roost Run	7/15/08		
Complete WMP for Horse Creek	7/21/08		
Preliminary DFIRM and FIS Report	12/15/08		
Post-Preliminary Processing	10/15/09		
Status As Of:	July 06, 2007		

Status History: The Mapping Activity Statement (MAS) was executed on December 20, 2005 by the Executive Director and FEMA's Regional Project Officer. The Scoping Meeting was conducted on July 17, 2006 in the City of Wauchula's Government Building. Representatives of the SWFWMD, Hardee County, City of Wauchula, and City of Zolfo Springs attended the scoping meeting. Participants were asked to identify areas of particular concern for their community. Hardee County, City of Wauchula, and City of Zolfo Springs were also asked to execute a Community Partner Memorandum of

Hardee - FEMA Map Modernization

Agreement to confirm their commitment to work with the District and the FEMA to produce updated, digital FIRM maps for their community. The Scoping Report has been completed and the MOAs between the District and the following communities have been executed by the District: Hardee County, City of Zolfo Springs, and City of Wauchula. The MOAs have been sent to FEMA for signature and upon return the communities will receive a fully executed MOA and a copy of the Final Scoping Report. An Agreement with URS has been executed to provide consultants services for the DFIRM Production. In addition to the DFIRM production, this project will also include five Watershed Management Plans (WMPs). An agreement with K&S was executed in April 2007 to perform a WMP in the Alligator Branch, City of Wauchula, and Thompson Branch Watersheds. Status Current: An agreement with URS was executed in June 2007 to perform a WMP in the Buzzards Roost Run. An agreement with BCI will be executed in July 2007 to perform a WMP in the Upper Reaches of the Horse Creek Watershed. The remaining funds, after the completion of the DFIRM production and the five WMP, will be used for Outreach. The District is working with a consultant to develop an Outreach Plan for Hardee County.

Project Type	FEMA/Map Mod.
AOR(s)	Flood Protection
Basin(s)	Peace River
Cooperator(s)	South Florida Water Management District, Avon Park, Federal Emergency Management Agency, Highlands County, Lake Placid, Sun N' Lake of Sebring, City of Sebring
Project Manager	LETASI, SCOTT
Task Manager(s)	
Status	Ongoing

Description

This project is to perform map modernization which includes 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP) for the Highlands County Watershed. The County's area within the District is approximately 400 square miles which separated into 14 watersheds. The watershed management plan will address flood protection and water quality issues. With FY2006 funding the work on the Map Modernization will begin.

Benefits

The District is cooperating with FEMA to modernize the flood insurance rate maps (FIRMs) in Highlands County. The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain management, and water quality management.

Costs

The total budget amount for this project is \$550,000 and FEMA will contribute the \$550,000. With FY2006 funding the work on the Map Modernization will begin. When each element is completed the project budget will be refined based on the information gathered.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies. Information developed with this project will be used to update the FIRMs representing this watershed. Staff has worked with the Federal Emergency Management Agency (FEMA) to improve and formalize the District's relationship with a federal agency that shares flood protection responsibilities. FEMA and the District executed a Cooperating Technical Partners (CTP) Memorandum of Agreement on September 14, 2001. As a CTP, the District is eligible for federal grants and matching funds to further efforts to modernize the flood insurance rate maps (FIRMs). Funds will be used to perform elements of the District's Watershed Management Program (WMP) within Highlands county. The District will execute a Mapping Activity Statement (MAS #8) with FEMA that identifies costs, responsibilities, and specific activities to complete the FEMA Map Modernization effort for watersheds in Highlands County. The District will coordinate with the local government(s), will manage the project, and will enter into purchase orders and agreements to accomplish project tasks. Because of funding constraints some watersheds will not be studied in detail. The risk information from the current FIRMs will be transferred to the modernized, digital maps. These watersheds will be studied in detail when additional funding is available through the cooperative funding process. Work on the Watershed Management Plan element for the detailed watersheds will include the following tasks: survey, data management and development of watershed parameters, GIS processing, computer modeling, and floodplain analysis. Development of countywide, digital FIRMs and outreach for the successful adoption of the FIRMs will also be performed. Future funding will be required for the Watershed Evaluation of other watersheds to complete the survey, watershed modeling development, floodplain analysis, LOS, surface water resource assessment, and alternate analysis of BMPs.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	0	0	7,422	0	7,422
District Budgeted - Outside Revenue					
FEMA Mapping Activity Statement	600,000	0	0	0	600,000
Project Funds Not Budgeted by the District					
FEMA	550,000	0	0	0	550,000
			Total		\$1,157,422

Critical Project Milestones	Projected	Amended	Actual
1. Critical Milestones			
Execute DFIRM Consultant Agreement	4/1/07		3/20/07
Perform Scoping Meeting	7/1/07		6/27/07
Complete Scoping Report	8/15/07		
Execute WMP Consultant Agreement	12/1/07		
2. Digital Terrain Model			
Complete County-wide DTM	10/1/07		
3. Watershed Evaluation			
Begin Watershed Evaluation	1/1/08		
Complete Watershed Evaluation	4/15/08		
4. Watershed Management Plan			
Begin Watershed Management Plan	5/1/08		
Complete Watershed Management Plan	12/1/08		
Preliminary DFIRM and FIS Report	7/1/09		
Post-Preliminary Processing	5/1/10		

Status As Of: July 06, 2007

Status History: Mapping Activity Statement (MAS) with SWFWMD and FEMA was executed on December 18, 2006. The District has executed an agreement with Dewberry & Davis to perform the Scoping Meetings and digital FIRMs production. Status Current: A prescoping meeting was held on May 9, 2007 in the Engineering Training Room of the Highlands County Building. Highlands County, City of Avon Park, and City of Sebring were in attendance. Participants were asked to provide data and information for their community to update the existing flood insurance rate maps (FIRMs). A scoping meeting was held on June 27, 2007 in the Highlands County Agricultural Civic Center. Highlands County, City of Avon Park, City of Sebring and Town of Lake Placid were in attendance. Participants were asked to identify areas of particular concern for their community (i.e. flood prone areas, new development). The communities were also asked to execute a Community Partner Memorandum of Agreement (MOA) to confirm their commitment to work with the District and the FEMA to produce updated, digital FIRM maps for their community.

Polk County Watershed Management Program: FEMA Map Modernization

Project Type	FEMA/Map Mod.
AOR(s)	Flood Protection
Basin(s)	General Fund (District), Alafia River, Hillsborough River, Peace River
Cooperator(s)	Federal Emergency Management Agency
Project Manager	TURNER, DAWN
Task Manager(s)	
Status	Ongoing

Description

The project involves performing tasks included in the Topographic Information, Watershed Evaluation, and Watershed Management Plan elements of the District's Watershed Management Program for priority watersheds in Polk County; and the development of countywide digital Flood Insurance Rate Maps (FIRMs). Public education and outreach will also be performed to facilitate successful adoption of the FIRMs. The District obtained LiDAR topographic information and digital orthophotos for most of Polk county as part of the Peace River Topographic Mapping project (P692). Through the District's cooperative funding program, the District and County have prepared or are in the process of preparing Watershed Management Plans for all or portions of 11 of the 25 identified watersheds. With Federal Emergency Management Agency (FEMA) funding, these plans will be updated to include recent alterations within the watersheds, and to meet the standards described in the District's Guidelines and Specifications. The remaining watersheds will be prioritized based on the needs of local governments and the District. Appropriate Watershed Evaluation and Watershed Management Plan tasks will be accomplished for priority watersheds. However, some of the lower priority watersheds will not be studied in detail because of funding constraints. In these watersheds the risk information from the current FIRMs will be transferred to the modernized, digital maps. Future cooperative funding request(s) will be required to complete Watershed Evaluation and Watershed Management Plan tasks for lower priority watersheds, and for those tasks that are not associated with the FIRM map updates (e.g. LOS determination, surface water resource assessment, and BMP alternative analysis). The District will manage the project, coordinate with local government(s), and enter into purchase orders and agreements to accomplish project tasks. A portion of Polk county is located within the South Florida Water Management District (SFWMD). The SFWMD will pursue FEMA funding to update the Polk county FIRMS in their area. The District executed a joint Mapping Activity Statement with FEMA and the SFWMD that identifies costs, responsibilities, and specific activities to complete the FEMA Map Modernization effort for watersheds within Polk county.

Benefits

Identification of floodprone areas is critical for the effective implementation of local, state and federal programs including the regulation of land use changes and site development, emergency preparedness, and emergency response. The information is also used by public and private entities to assess risk, and make development decisions.

Costs

The Federal Emergency Management Agency provided \$1,200,000 for this project.

Additional Information

FEMA is a federal agency with flood protection responsibilities that include the preparation of FIRMs to identify flood hazards zones. Staff has been working to improve and formalize the District's relationship with FEMA. On September 14, 2001, FEMA and the District executed a Cooperating Technical Partners (CTP) Memorandum of Agreement. As a CTP, the District is eligible for federal grants and matching funds to further efforts to modernize the FIRMs. In FY2004, FEMA provided over \$6 million in grant funds to the District to modernize the FIRMs in Hernando, Marion, Pasco, and Sarasota counties. In FY2005, FEMA provided an additional \$2.7 million in grant funds to the District to modernize the FIRMS in Polk, Hadee and DeSoto counties. \$1.2 million of the FY2005 funding was allocated to the area of Polk county located within the District. These funds will be used to update previous studies to meet District Guidelines and Specifications, perform elements of the District's Watershed Management Program (WMP) for priority watersheds, and develop countywide digital FIRM maps. A WMP includes five major elements: Topographic information, Watershed Evaluation, Watershed Management Plan, Implementation of Best Management Practices, and Maintenance of Watershed Parameters and Models. The Topographic Information element provides the foundational information used to define the watershed's boundaries, storage and conveyance. The Watershed Evaluation element tasks includes field evaluation of the watershed and its intermediate conveyance system, inventory of water resources and stormwater management infrastructure, data development and GIS processing of watershed parameters, and an immediate maintenance evaluation. The Water Management Plan tasks include survey, data management and development of watershed parameters, GIS processing, computer modeling, floodplain analysis, surface water resource assessment (water quality), establishment of level of services (LOS), and a best management practices (BMP) alternative analysis, which includes prioritized recommendations and probable costs. Implementation includes design, construction permitting, development of construction documents, land acquisition, and construction of the BMPs. Maintenance of Watershed Parameters and Models are required in order to maintain the watershed parameters and model based on land alteration occurring within the watershed. When each element is completed, the project budget is refined based on the information gathered. The District's FY2006 funding shown in the table below will be used for staff time.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	9,444	11,236	25,346	0	46,026
District Budgeted - Outside Revenue					
FEMA Mapping Activity Statement	1,200,000	0	0	0	1,200,000
			Total		\$1,246,026

Critical Project Milestones**1. Cooperating Technical Partners Agreement**

Cooperating Tech. Partners Memorandum of Agreement

Projected

9/14/01

Actual

9/14/01

Cooperating Technical Partners Agreement Executed

8/12/02

8/12/02

2. Mapping Activity Statement

Mapping Activity Statement Executed

9/30/05

2/6/06

3. Consultant Agreement - Scoping

Develop Scoping Consultant Agreement

11/7/05

11/7/05

Draft Consultant Agreement to Management Services

11/7/05

11/7/05

Draft Agreement returned from Management Services

12/1/05

11/30/05

Scoping Consultant Contract Execution

12/30/05

1/12/06

Scoping Consultant Notice to Proceed

12/30/05

2/1/06

Scoping Consultant Contract Termination

7/31/06

7/31/06

Polk County Scoping Report complete

1/23/07

1/23/07

4. Consultant Agreement - DFIRM generation

Consultant Agreement to Contracts for approval

4/1/07

Consultant Agreement back from Contracts

4/30/07

Agreement mailed to Consultant for signature

5/14/07

Consultant Agreement executed

6/14/07

Notice to Proceed to Consultant

6/14/07

Status As Of: July 05, 2007

Awaiting FEMA approval of the Scoping Report. A Consultant Services Agreement with Watershed Concepts is being routed for approval. The Agreement includes DFIRM map generation and related tasks for the area of Polk County that is within the District. The SFWMD will contract with a consultant separately for the generation of DFIRM maps for the portion of Polk County that is located within the SFWMD. Status History: The Mapping Activity Statement (MAS) was executed by both Water Management Districts and FEMA as of February 6, 2006. Project funds have been placed in the District's Smartlink account. The Governing Board approved encumbering the funds without a contract, because the funds were included in District's FY2005 budget. The consultant services agreement with Tampa Bay Engineering (TBE) and the first work order for scoping services have been executed. District and TBE staff conducted a pre-scoping meeting on April 19, 2006. Representatives of the District, Polk County, the City of Winter Haven, and the SFWMD attended the pre-scoping meeting. The project scope and schedule, and data needs were discussed. The scoping meeting was conducted on June 22, 2006 in the Bartow Service Office. Representatives of the District, the SFWMD, Polk County, Mosaic, the cities of Winter Haven, Lake Wales, Lakeland, Frostproof, Lake Alfred, and Auburndale attended the scoping meeting. Participants were asked to identify areas of particular concern for their community; and to provide information such as current city limits that will be used in the preparation of the digital FIRM maps. Each local government was also asked to execute a Community Partner Memorandum of Agreement to confirm their commitment to work with the District, the SFWMD and the FEMA to produce updated, digital FIRM maps for their community. The Scoping Report was provided to local governments for review and comment on January 23, 2007. One comment was received, and the scoping map was revised accordingly. Awaiting final approval of the Scoping Report by FEMA. District staff are currently negotiating with the consultant for the DFIRM generation. Staff is continuing to work with each local government to execute a Community Partner Memorandum of Agreement to confirm their commitment to work with the District, the SFWMD and the FEMA to produce updated, digital FIRM maps for their community. To date, only two MOAs have been received from local governments (Lake Alfred and Polk City). Polk County submitted an MOA to FEMA for a previous map effort, and would like to use that MOA for this effort. District staff will check to see if this is acceptable, and respond back to County staff.

FEMA Map Modernization Management Support

Project Type	FEMA/Map Mod.
AOR(s)	Flood Protection
Basin(s)	General Fund (District), Alafia River, Hillsborough River, Northwest Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River, Peace River, Manasota
Cooperator(s)	
Project Manager	DUNHAM, STEPHANIE
Task Manager(s)	
Status	Proposed

Description

This project is to provide management support for Federal Emergency Management Agency (FEMA) flood insurance rate map (FIRM) modernization projects throughout the District (please reference projects M101-M116). Under these Map Modernization projects the FIRMs will reflect updated flood hazard risk areas and be modernized to a digital product. The updated flood hazard risk areas are being developed by the District through the 1) Topographic Information, 2) Watershed Evaluation, and 3) Watershed Management Plan elements of the District's Watershed Management Program (WMP). Map Modernization management support (MMMS) funds supplement the ongoing activities already being performed by staff including, but not limited to coordination and effort in building partnerships, information technology systems, program management planning, hydrologic and hydraulic review, and outreach.

Benefits

The WMP provides a method to evaluate the capacity of a watershed to protect, enhance, and restore water quality and natural systems, while achieving flood protection. The information developed provides the science for the District's Resource Management and Environmental Resource Permitting (ERP). It assists local governments: 1) With their land management responsibilities by establishing a level of service and developing Best Management Practices (BMPs) to address level of service deficiencies. 2) Provides a Geodatabase and projected results from watershed model simulations for floodplain management and water quality management. The FIRMs are used by local governments for land management and building permitting to satisfy the minimum requirements of the National Flood Insurance Program.

Costs

The total amount for MMMS is \$943,620 to be funded by FEMA. The District has received a total of \$643,620 in FEMA MMMS that has been included in the Governing Board's FY2005, FY2006 and FY2007 budgets as revenue. District Staff anticipate an additional \$150,000 to be funded by FEMA for ongoing MMMS activities in both FY2008 and FY2009 (\$300,000 in total). Each year FEMA notifies the District how much funding is available for MMMS. The District funding amounts shown in the table represents staff salaries.

Additional Information

The WMP includes five major elements: 1) Topographic Information, 2) Watershed Evaluation, 3) Watershed Management Plan, 4) Implementation of Best Management Practices, and 5) Maintenance of Watershed Parameters and Models. Implementing elements of the WMP with local governments is one of the Comprehensive Watershed Management (CWM) initiative strategies and one of the District's Strategic Priorities. The District is cooperating with FEMA to modernize the FIRMs throughout the District. Staff has worked with the FEMA to improve and formalize the District's relationship with a federal agency that shares flood protection responsibilities. FEMA and the District executed a Cooperating Technical Partners (CTP) Memorandum of Agreement on September 14, 2001. As a CTP, the District is eligible for federal grants and matching funds to further efforts to modernize the FIRMs. Each year the District enters into a cooperative agreement with FEMA for MMMS funding that defines the activities that will be performed. \$250,000 in funding (grant EMA-2004-CA-5038) for FY2005 is being used to provide a meeting facilitator for ongoing coordination meetings between the water management districts, FEMA Region 4, and the Florida Department of Community Affairs; develop a District-wide FIRM paneling scheme; determine the feasibility of expanding the District's role in distributing digital FIRMs to the public; maintaining the digital FIRMs; and revising the FIRMs simultaneously with the ERP application review. For FY2005, a total of \$3000,000 was actually budgeted in the General Fund with associated revenue. The \$50,000 difference between expected funding and actual was rolled into the FY2006 budget. For FY2006 FEMA has granted (EMA-2005-CA-5244) the five water management districts \$120,000 in MMMS to hire an outreach facilitator and develop design storm rainfall depth criteria for the entire State. The District will manage the project and contract with consultants on behalf of the other water management districts. In addition, the District received additional MMMS (\$144,000) in FY2006 to support outreach efforts, allow the District to develop quality control/quality assurance tools, and support staff travel to meetings and conferences related to this effort. For FY2007, the District has received \$129,620 from FEMA for continued travel support, outreach efforts, management assistance, and an XML-based export to for the District's Geographic Watershed Information System to populate FEMA's database. For FY2008, the District is proposing to budget \$150,000 in revenue for continued MMMS. The District will coordinate with the local government(s), will manage the project, and will enter into purchase orders and agreements to accomplish project tasks.

	Prior Funding	FY2007 Funding	FY2008 Funding	Future Funding	Total Funding
District Budgeted - Ad Valorem Based Revenue					
010 General Fund (Districtwide)	8,891	2,417	8,787	300,000	320,095
District Budgeted - Outside Revenue					
FEMA Mapping Activity Statement	550,000	250,000	150,000	300,000	1,250,000
			Total		\$1,570,095
Critical Project Milestones		Projected	Amended		Actual
1. Critical Project Milestones					
FEMA & District Recognition on Reports					
2. FY2005					
Develop Mutually Agreeable Scope of Work for MMMS		9/30/04			9/30/04
Execute FEMA Agreement Articles and Related Forms		11/30/04			11/24/04
Develop Consultant Agreement		11/30/04			11/19/04
Draft Agreement to Management Services		1/7/05			1/7/05
Draft Agreement returned from Management Services		1/21/05			2/4/05
Contract Execution		3/4/05			3/1/05
Notice to Proceed		3/4/05			3/1/05
Develop First Amendment to Consultant Service Agmt		7/7/06			8/2/06
Draft Amendment to Management Services		7/12/06			8/2/06
Contract Termination		7/21/06	3/1/08		
Amendment Execution		9/18/06			9/18/06
3. FY2006 - District					
Develop Cooperative Agreement for MMMS (District)		6/7/05			6/1/07
Execute FEMA Agreement Articles and Related Forms		10/31/05			12/2/05
District Outreach Facilitator Purchase Order Execution		2/28/06			3/2/06
District Outreach Facilitator Purchase Order Termination		12/31/06			12/31/06
3. FY2006 - FL WMD					
Develop Application for competitive MMMS (FL WMD)		6/1/05			5/18/05
Execute FEMA Agreement Articles and Related Forms		10/31/05			12/2/05
Develop State Outreach Facilitator Purchase Order		1/30/06			2/21/06
State Outreach Facilitator Purchase Order Execution		2/28/06			3/2/06
Develop Rainfall Frequency Analysis Purchase Order		6/1/06			6/1/06
Rainfall Frequency Analysis Purchase Order Execution		6/30/06			7/20/06
State Outreach Facilitator Purchase Order Termination		12/31/06			12/31/06
Rainfall Frequency Analysis Purchase Order Termination		6/30/07	9/30/07		
4. FY2007					
Develop Application for competitive MMMS		3/27/06			3/27/06
Develop Cooperative Agreement for MMMS		5/26/06			5/26/06
Execute FEMA Agreement Articles and Related Forms		9/22/06			9/28/06
Execute FEMA Agreement Articles and Related Forms		9/22/06			9/29/06
Develop XML-base Export System Purchase Order		11/30/06			
XML-base Export System Purchase Order Execution		11/30/06			
Develop Map Modernization Program Assistance Agreement		7/31/07			
Map Modernization Program Assistance Agreement Execution		9/30/07			
XML-base Export System Purchase Order Termination		9/30/07			

Status As Of: July 09, 2007

FY2005: A fully executed FEMA Form 76-10 to MMMS Grant, EMA-2004-CA-5038 has been returned to the District. The form awards funds pursuant to the approved Statement of Work. Forms SF424 and FEMA 20-20 have also been executed by the Executive Director and transmitted to FEMA to support these funds. The consultant agreement with URS Corporation Southern was executed on March 1, 2005. All FY2005 funds have been encumbered via an amendment to URS' agreement, which was executed in September 2006. Work Orders #1, #2, and #3 have been executed. Work Order #1 is to incorporate a Hazard Mitigation Component into the District's Business Plan for Map Modernization. Work Order #2 is to develop a District-wide flood insurance rate map (FIRM) paneling scheme to support the District's efforts in modernizing and updating the FIRMs throughout the District. The draft paneling scheme has been prepared and submitted to surrounding water management districts (South Florida, St. Johns River, and Suwannee River). Work Order #3 supplies a moderator for ongoing coordination meetings among staff from the five water management districts regarding Map

Modernization and a Sharepoint site for staff to access minutes and associated documents. Work Order #5 has been executed as of February 23, 2007, to determine the District's ability and resulting issues of reviewing Letters of Map Change (LOMC) simultaneously with ERPs. Two meetings have been held with District staff (MAN, TPA-REG, RPM), FEMA Region 4, and Hillsborough County staff. A sixth work order is being developed to allow the consultant team to present how different types of developments are reviewed and permitted by the District, FEMA, and local government (Hillsborough County). FY2006: An additional \$120,000 in funds have been approved by FEMA for the five Florida water management districts. These funds were approved to facilitate Map Modernization outreach for all five districts and to support the development of statewide isopluvial maps for various design storm events. The District will contract with consultants and manage the projects on behalf of the other four water management districts. A purchase order has been developed with UCF for \$60,000 to begin resolving design rainfall depth differences between WMDs. UCF has completed the literature review, data collection, data quality assurance, and has performed an initial statistical analysis of the rainfall data. UCF has requested a no-cost time extension to complete the project by September 30, 2007. Secondly, the District has authorized a purchase order for outreach consulting services to support the Map Modernization effort of all the WMDs (\$45,000) and specific needs of the District (\$48,000). Bender Consulting is providing outreach planning support to review completed and ongoing outreach efforts associated with each project and provide messages and direction to enhance future outreach. Bender Consulting has completed all tasks related to District outreach support and is currently finalizing remaining deliverables about the WMDs' outreach efforts and materials. A total of \$63,000 in funds for the quality control and assurance tools has been encumbered through an amendment to JEA's service agreements for the Sarasota County Map Modernization (M115) project. The FY2005 consultant agreement with URS has been amended to include FY2006 funds for ongoing meeting facilitators services. Work Order #4 has been executed with URS to provide facilitation services for four (4) additional quarterly meetings. Remaining funds are to reimburse the District for travel and video conferencing expenses. Funds that have not been expended have been board encumbered (\$13,000). FY2007: The District has been granted an additional \$60,000 in competitive MMMS for FY2007 to develop tools to export from the District enhanced ArcHydro database to FEMA's data capture standards. In addition, the District has been awarded \$69,200 in MMMS from FEMA to continue travel associated with Map Modernization, coordination meeting facilitation, and programmatic assistance. The FEMA forms to encumber these funds have been executed. A Purchase Order has been executed with ESRI to develop the export tool within the ArcHydro environment. Staff is developing an agreement with Watershed Concepts for Map Modernization programmatic assistance, which will encumber both FY2006 and FY2007 funds allocated for this activity.

PEACE RIVER BASIN STRATEGIC BUDGET PRIORITIES

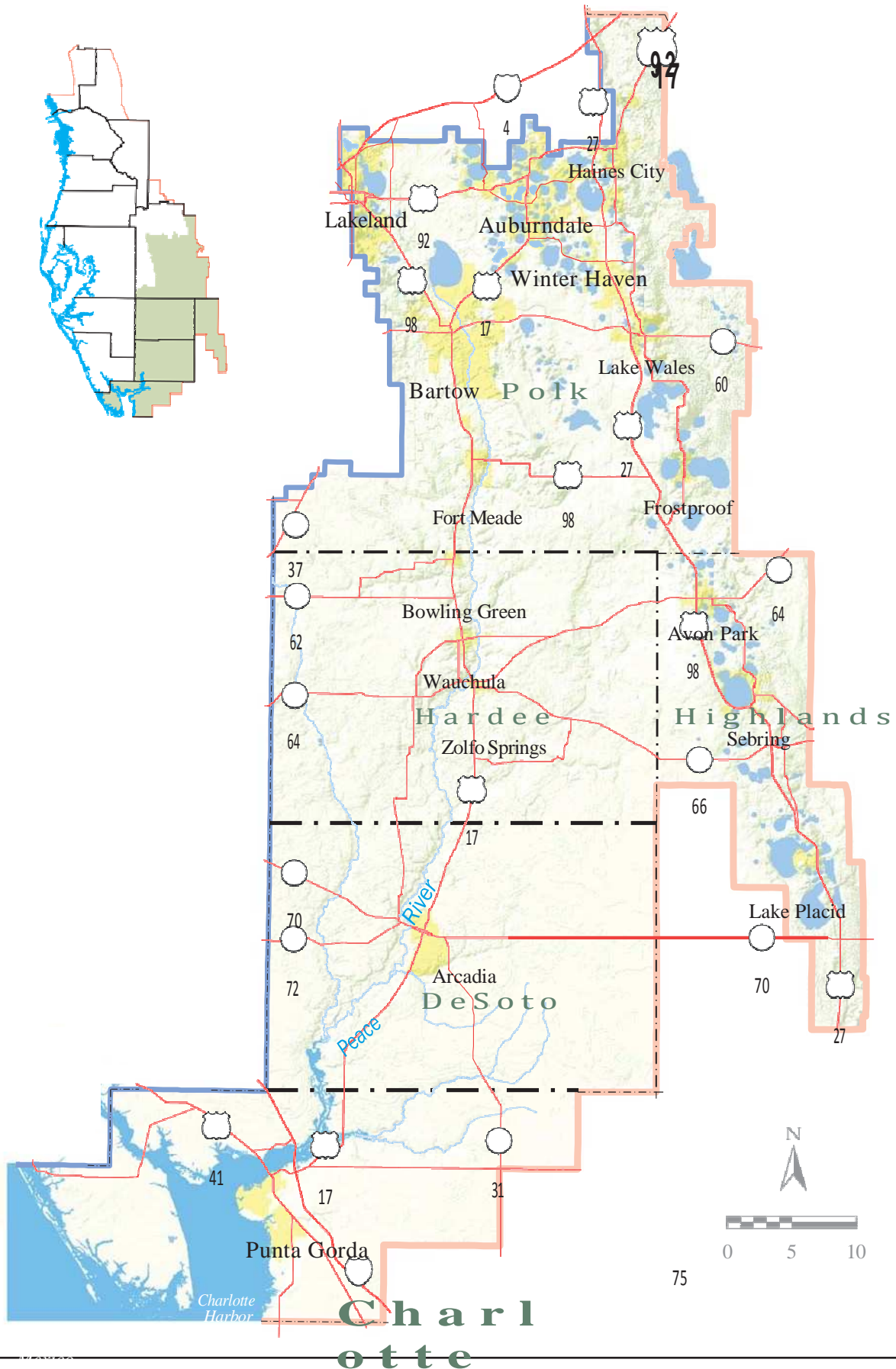
On October 6, 2006, the Peace River Basin Board held its annual planning workshop for the purposes of reviewing recent accomplishments, identifying emerging issues and setting strategic budget priorities for Fiscal Year 2007. These priorities provide guidance to District staff and the Basin Board's cooperators in identifying and scoping projects for potential Basin Board funding. At the workshop, the Board agreed on the following set of strategic budget priorities.

- Implementation of the SWUCA Recovery Strategy
- Alternative Water Source Planning and Development
- Emergency Management/Watershed Management Program
- Public and Youth Education
- Adequate Funding for Cooperative Projects
- Pursuit of Outside Funding Sources

While the above priorities were developed to help ensure that the most critical needs of the Basin are addressed, the Basin Board funds a wide variety of projects to assist in the achievement of the mission of the Southwest Florida Water Management District. These include projects that fall within each of the District's four areas of responsibility: *water supply, flood protection, water quality and natural systems.*

Peace River Basin

Southwest Florida Water Management District



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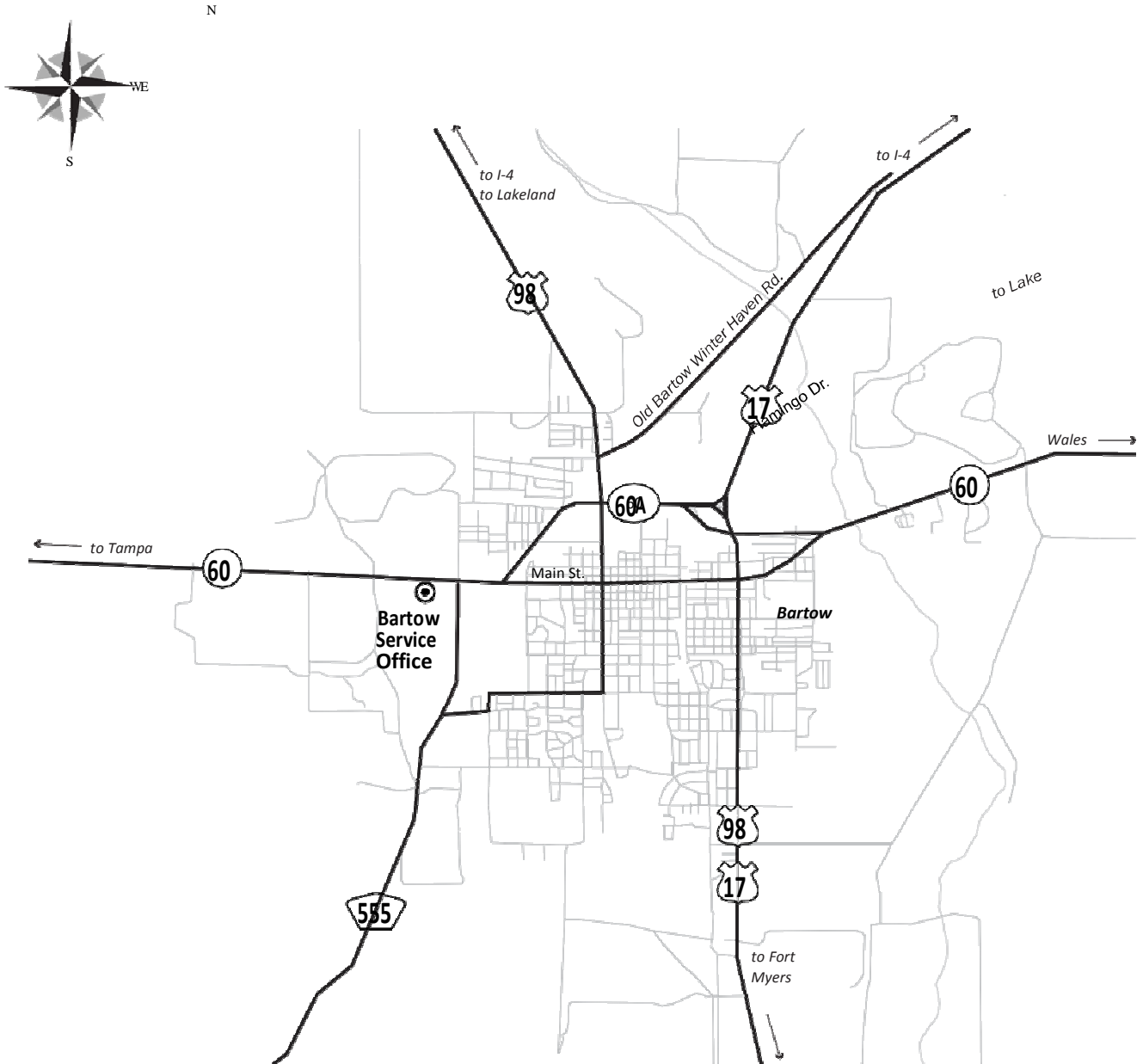
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Location Map: Bartow Service Office

170 Century Boulevard, Bartow, FL 33830-7700

Phone (863) 534-1448, 1-800-492-7862 or SUNCOM 572-6200



Directions: *Traveling west, follow Highway 60 through the business section of Bartow; look for a tall Penske sign on the left; turn left at the USX Commercial Park marker onto Century Boulevard.*

Traveling east on Highway 60 toward Bartow, go past the industrial area after passing through Mulberry; look for the tall Penske sign on the right; turn right at the USX Commercial Park marker onto Century Boulevard.

(Service Office buildings face Highway 60 and have blue roofs.)

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CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing **MODIFIED MOTION TO INTERVENE – NOTICE OF EVIDENCE** showing Swfwmd Stakeholders Kenny Harrison of 72 Partners and Harrison Cattle at RV Griffin attacking Gilberti-Daughtrey Ranch in Sarasota to hide Critical US Drinking Water Resource via Underground Alkaline River where Swfwmd Peace River Board member Kenny Harrison stole funding with Swfwmd and Peace River Manasota after Hurricane Charlie to create this lawsuit and many more via electronic mail upon the following this 3rd day of December, 2018:

Respectfully submitted,

Joe Gilberti

s/ _____
Joseph D. Gilberti, Jr., PE
Florida PE No. 56079
LandTech Design Group, Inc.
385 Donora Blvd
Ft Myers Beach, Florida 33931
813-470-6000 direct
239-765-0908 fax
gilberti.water.company.fl@gmail.com

Christopher A. Tumminia, FBN: 107426
Adrienne E. Vining, FBN: 0196290
Michael R. Bray, FBN: 58263
7601 U.S. Highway 301
Tampa, Florida 33637
(813) 985-7481 x. 4658 Telephone
(813) 367-9776 Facsimile
Chris.Tumminia@swfmwd.state.fl.us
Adrienne.Vining@swfwmd.state.fl.us
Mike.Bray@swfwmd.state.fl.us
Amissa.Smith@swfwmd.state.fl.us
Jessica.Stratton@swfwmd.state.fl.us
Counsel for the District

Ralph A. DeMeo, Esq.
Lauren M. DeWeil, Esq.
Baker Donelson
101 N. Monroe Street, Suite 925
Tallahassee, FL 32301
T: (850) 425-7500
RDeMeo@bakerdonelson.com
LDeWeil@bakerdonelson.com
**ATTORNEYS FOR BARTOW,
FLORIDA**

Edward P. de la Parte, Jr., Esq.
Nicolas Q. Porter, Esq.
Kristin Y. Melton, Esq.
de la Parte & Gilbert, P.A.
Post Office Box 2350
Tampa, Florida 33601-2350
Telephone: (813) 229-2775
edelaparte@dgfirm.com
nporter@dgfirm.com
kmelton@dgfirm.com
serviceclerk@dgfirm.com
AND

Michael S. Craig, Esq.
Polk County Attorney
P.O. Box 9005, Drawer AT01
Bartow, FL 33831-9005
T: (863) 534-6482
michaelcraig@polk-county.net
diannamccllland@polk-county.net
eFilingservices@polk-county.net
**ATTORNEYS FOR POLK COUNTY,
FLORIDA**

Thomas A. Cloud, Esq.
Jason A. Zimmerman, Esq.
GrayRobinson, P.A.
P.O. Box 3068
Orlando, FL 32802

Edward P. de la Parte, Jr., Esq.
Nicolas Q. Porter, Esq.
Kristin Y. Melton, Esq.
de la Parte & Gilbert, P.A.
Post Office Box 2350
Tampa, Florida 33601-2350
Telephone: (813) 229-2775
edelaparte@dgfirm.com
nporter@dgfirm.com
kmelton@dgfirm.com
serviceclerk@dgfirm.com
**ATTORNEYS FOR POLK
REGIONAL WATER COOPERATIVE**

Edward P. de la Parte, Jr., Esq.
Nicolas Q. Porter, Esq.
Kristin Y. Melton, Esq.
de la Parte & Gilbert, P.A.
Post Office Box 2350
Tampa, Florida 33601-2350
Telephone: (813) 229-2775
edelaparte@dgfirm.com
nporter@dgfirm.com
kmelton@dgfirm.com
serviceclerk@dgfirm.com
AND

Frederick J. Murphy, Jr., Esq., FBN
0709913
Winter Haven City Attorney
Boswell & Dunlap, LLP
246 South Central Avenue
Bartow, FL 33830
T: (863) 533-7117
fjm@bosdun.com
beth@bosdun.com
**ATTORNEYS FOR WINTER HAVEN,
FLORIDA**

Segundo J. Fernandez, Esq.
Timothy Atkinson, Esq.
Oertel, Fernandez, Bryant & Atkinson,
P.A.
P.O. Box 1110

