

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 6, 2016*

**RESOLUTIONS/PRESENTATIONS**  
**ITEM 1**

**Recognition of Commissioner Constance  
for his Service as Chairman for 2016**

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The Authority wishes to recognize Commissioner Constance for his service as Chairman of the Peace River Manasota Regional Water Supply Authority Board of Directors.

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**RESOLUTIONS/PRESENTATIONS**  
**ITEM 2**

**Employee Service Recognition**

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The Authority's employees are its most valuable resources. Employee service recognition provides the Board with the opportunity to personally recognize and thank our dedicated employees who have achieved significant milestones in longevity with the Authority.

The Authority is pleased to recognize the following employee for their service.

<b>Milestone</b>	<b>Employee</b>	<b>Position</b>
5 Years	Shalina Odegard	Environmental Specialist
10 Years	Linda Burke	Administrative Secretary II
10 Years	Adam Smart	Water Plant Operator "C"

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**RESOLUTIONS/PRESENTATIONS**  
**ITEM 3**

**Video Awards**

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The Authority, through its public relations consultant Honey Rand of Environmental PR Group, has been honored with the following awards.

<b>Organization</b>	<b>Award</b>	<b>Title</b>
Academy of Interactive Visual Arts	2016 Davey Award Silver Winner	<i>'Silver Anniversary Video Public Education'</i>
Association of Marketing Professionals	2016 Videographer Awards Award of Distinction	<i>'Silver Anniversary Story'</i>
Association of Marketing Professionals	2016 MarCom Awards Honorable Mention	<i>'Silver Anniversary Communication'</i>
Academy of Interactive Visual Arts	2016 W3 Award Silver Winner	<i>'25<sup>th</sup> Anniversary Video'</i>
Academy of Interactive Visual Arts	2016 W3 Award Silver Winner	<i>'OurCommunityWater.com'</i>

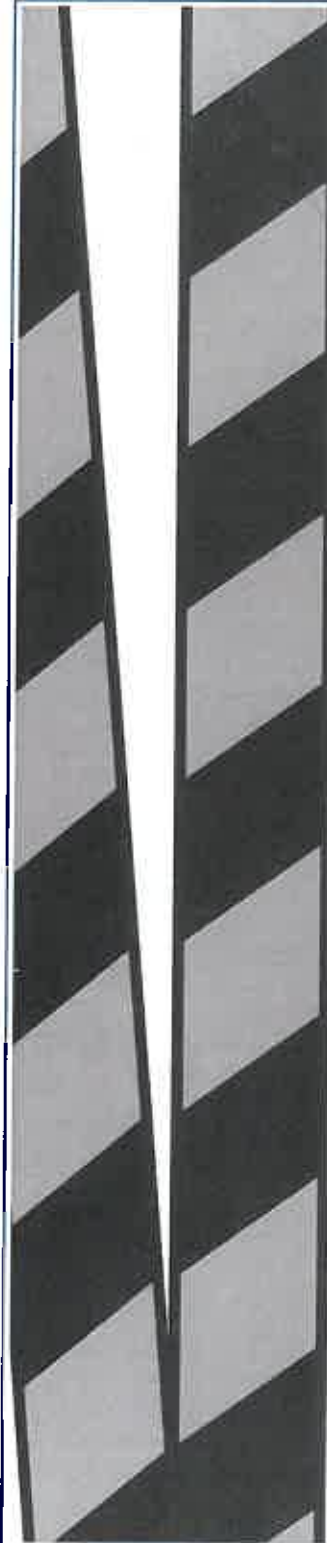


SILVER WINNER

**2016  
Davey Awards**

Peace River Manasota Regional  
Water Supply Authority  
Silver Anniversary Video  
Public Education





# 2016 Award of Distinction

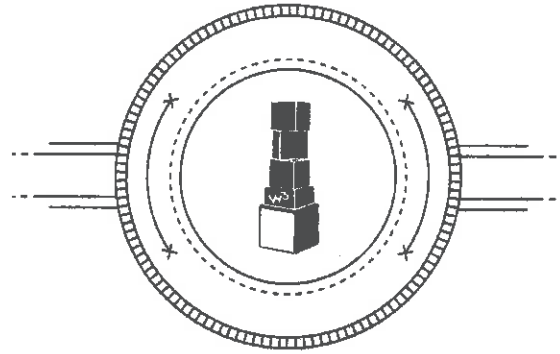


Peace River Manasota  
Regional Water Supply Authority  
*Silver Anniversary Story*



# W<sup>3</sup> AWARDS

POWERED BY WEB CREATIVITY



**SILVER WINNER**

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**2016 W<sup>3</sup> Awards**  
Peace River Water Authority  
Regional Water Supply  
25th Anniversary Video

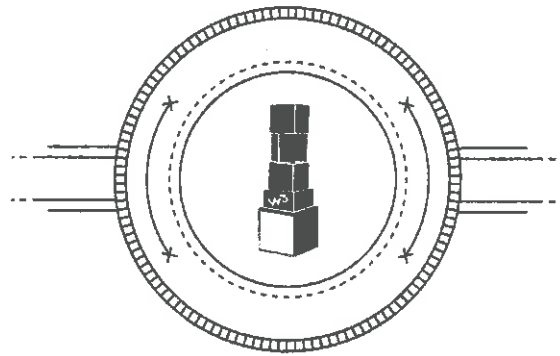
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AIVA

 **RECOGNIZING  
THE POWER OF  
WEB CREATIVITY**

# W<sup>3</sup> AWARDS

POWERED BY WEB CREATIVITY



**SILVER WINNER**

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**2016 W<sup>3</sup> Awards**  
Peace River Manasota  
Regional Water Supply Authority  
[OurCommunityWater.com](http://OurCommunityWater.com)

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AIVA

**W<sup>3</sup>** RECOGNIZING  
THE POWER OF  
WEB CREATIVITY



**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**TENTATIVE BUDGET**  
**ITEM 1**

**Tentative Budget for FY 2018**

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**Presenter -** Patrick Lehman, Executive Director

**Recommended Action -** **Motion** to approve Tentative Budget for FY 2018 in the amount of \$49,411,364.

In accordance with the 'Second Amended Interlocal Agreement Creating the Peace River Manasota Regional Water Supply Authority', the Authority is required to establish a tentative budget no later than May 15<sup>th</sup> of each ensuing year. Staff will present the proposed Tentative Budget for FY 2018 at the meeting. The proposed Tentative Budget for FY 2018 is \$49,411,364.

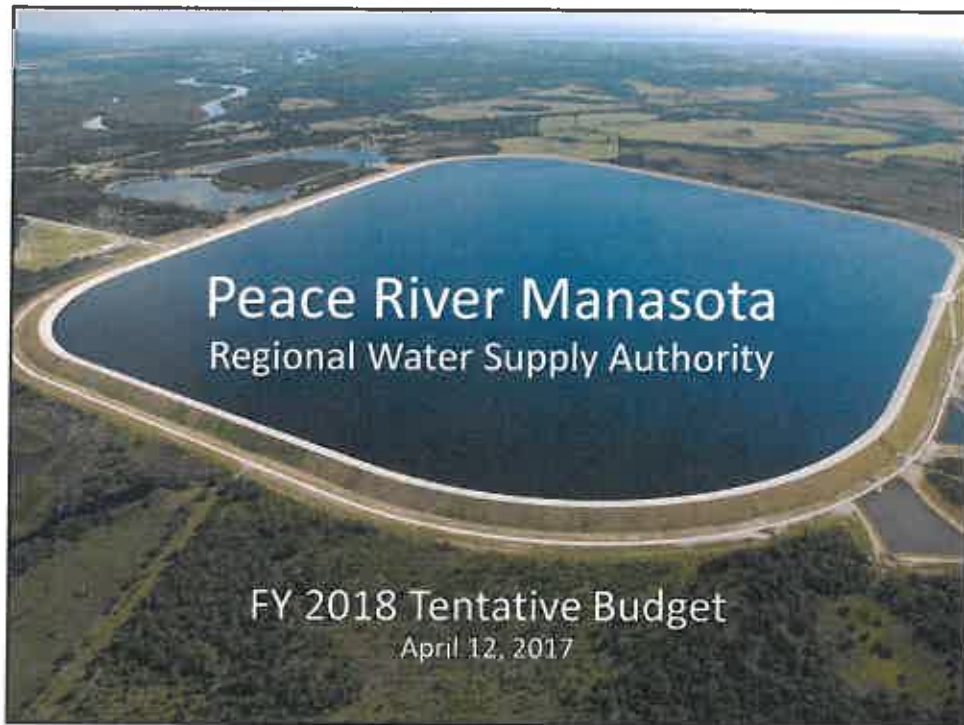
The Tentative Budget for FY 2018 will be posted on the Authority's website and distributed for continued review by Authority members, customers and the public. A public hearing will be scheduled at which time the Board will adopt the final budget during a regularly scheduled meeting prior to August 15, 2017.

**Attachments:**

- Tab A FY 2018 Proposed Tentative Budget Presentation
- Tab B FY 2018 Proposed Tentative Budget Analysis
- Tab C FY 2018 Proposed Water Rate and Charges Analysis
- Tab D FY 2018 Proposed Tentative Budget
- Tab E Historical Water Rate Comparison
- Tab F Historical Expenditures Comparison

**TAB A**  
**FY 2018 Proposed Tentative Budget Presentation**

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## Tentative Budget for FY 2018

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### **Mission of the Authority is:**

*"To provide the region with a sufficient, high quality, safe drinking water supply that is reliable, sustainable and protective of our natural resources now and into the future."*

### **Vision of the Authority is:**

*"Through cooperation and collaboration the Authority and its members shall create, maintain and expand a sustainable, interconnected regional water supply system."*

## Tentative Budget for FY 2018

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- Feb. 1 - Authority Board meeting – Budget Process
- Mar. 3 - Draft Budget for FY 2018 distributed to members' staffs
- Mar. 8 - Customer staff meeting
- Apr. 12 - Authority Board meeting – adopt Tentative Budget for FY 2018**
- May 3 - Customer staff meeting
- May 12 - Administrators' meeting
- June 7 - Authority Board meeting
- July 12 - Customer staff meeting
- July/Aug - Member County BOCC and North Port Commission meetings
- Aug. 2 - Authority Board meeting and Public Hearing to adopt Final Budget for FY 2018

## Tentative Budget for FY 2018

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### Budget Documents:

- Second Amended Interlocal Agreement Creating the Peace River Manasota Regional Water Supply Authority (Amended 2005)
- Peace River Manasota Regional Water Supply Authority Master Water Supply Contract (Amended 2015)
- Resolution 2005-08 'Resolution Setting Forth Rate Setting Methodology' (Oct. 2005)
- Utility System Revenue Bonds
  - Series 2010
  - Series 2014
  - Series 2015
- Budget Policies (Feb. 2013)
- Strategic Plan for Peace River Manasota Regional Water Supply Authority (Revised 2017)

## Tentative Budget for FY 2018

### Budget Obligations:

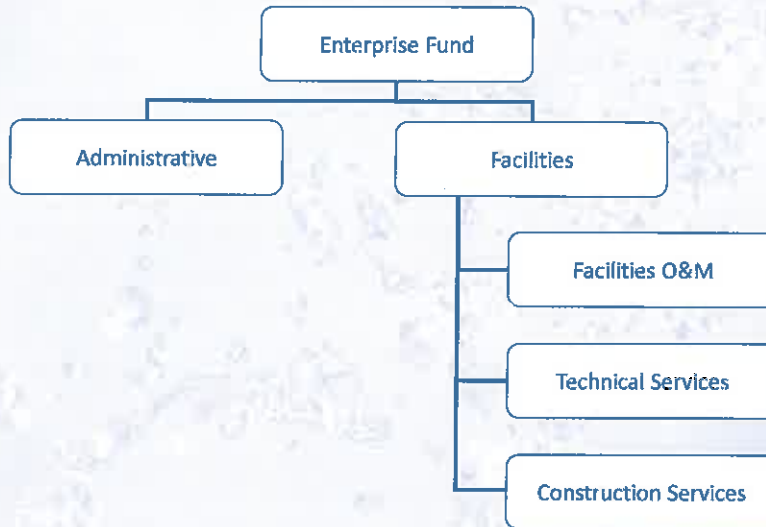
- Meet MWSC obligations [34.7 MGD]
- Meet Customer demands projections [31 MGD]
- Plan long term water demands
- Efficient and effective Operations
- Investment in infrastructure
- Maintain financial stability/bond rating
- Maintain reasonable water rates:
  - ✓ Next fiscal year FY 2018
  - ✓ Near-term [2-5 years]
  - ✓ Long term [5-20 years]

## Tentative Budget for FY 2018

### Budget Analysis:

- Costs consistent with increased water demand
- Staffing
  - Personnel compensation increase budgeted at 4% [comparable to members]
  - Health Insurance increase budgeted at 5%
  - One new staff position [increase from 47 to 48 FTE]
    - Project engineer/manager position
- Increase in FPL electric rates (13%)
- Prioritize R&R funding to maintain infrastructure
- Reflects grant funds for CIP projects for Customers savings

**Tentative Budget for FY 2018**

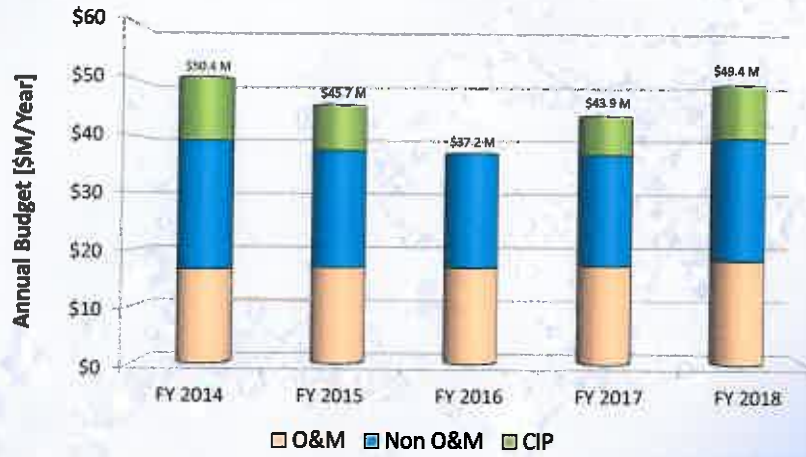


**Tentative Budget for FY 2018**

	<b>FY 2017 Budget</b>	<b>FY 2018 Tentative Budget</b>	<b>Increase/ (Decrease)</b>
<b>Total Enterprise Fund</b>	\$ 43,931,504	\$ 49,411,364	\$ 5,479,860
<b>Administrative Office</b>	\$ 686,500	\$ 705,300	\$ 18,800
<b>Facilities</b>	\$ 43,245,004	\$ 48,706,064	\$ 5,461,060

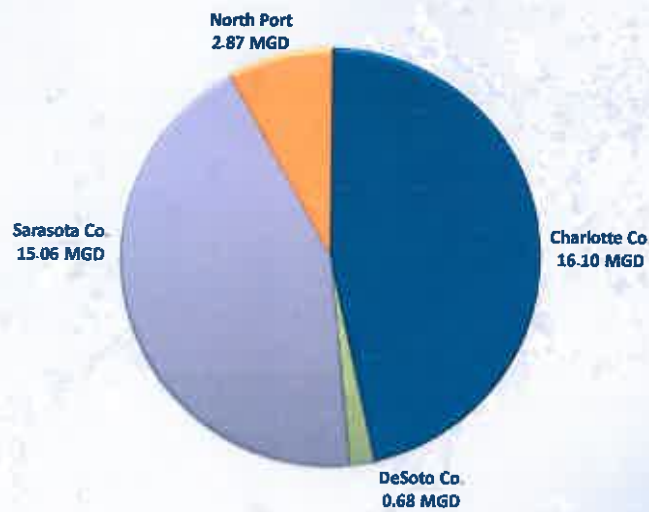
## Tentative Budget for FY 2018

### Historical Budgets



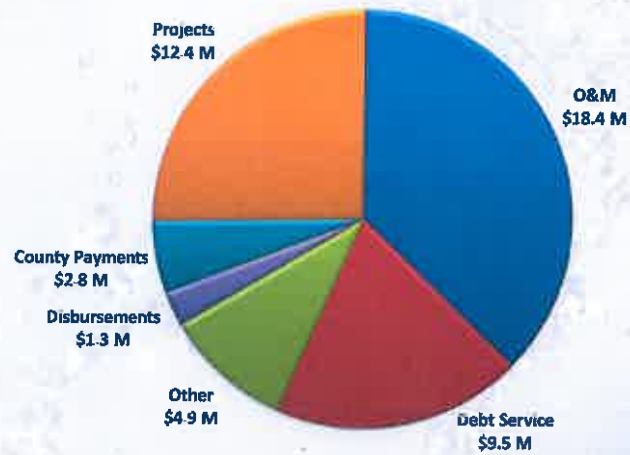
## Tentative Budget for FY 2018

### Water Allocations [34.7 MGD]



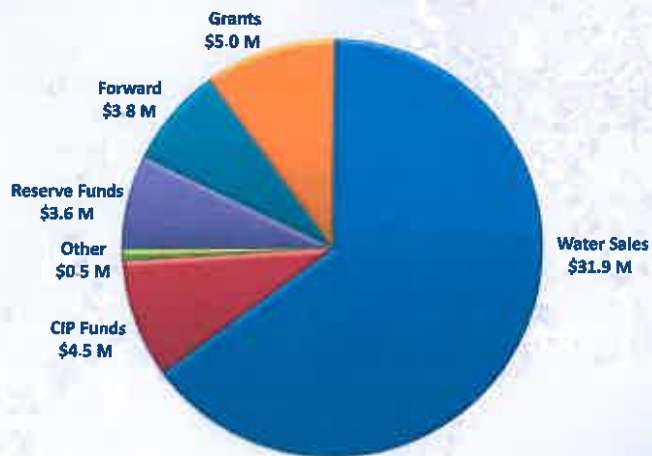
## Tentative Budget for FY 2018

### Expenditures [\$49.4 M]



## Tentative Budget for FY 2018

### Available Funds [\$49.4 M]





## Tentative Budget for FY 2018

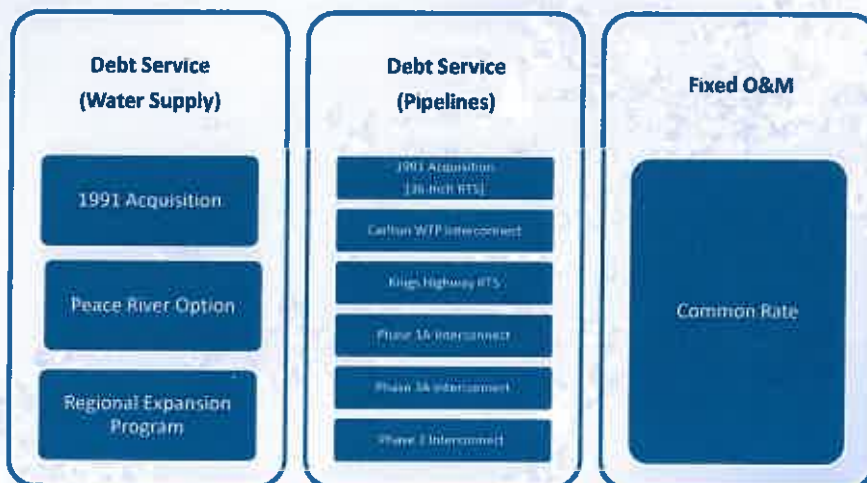
Water Rate is established by resolution of the Authority for the sale of water and comprised of two components:



Conservation Charge for Exceedance applies by for exceeding MWSC water allocation.

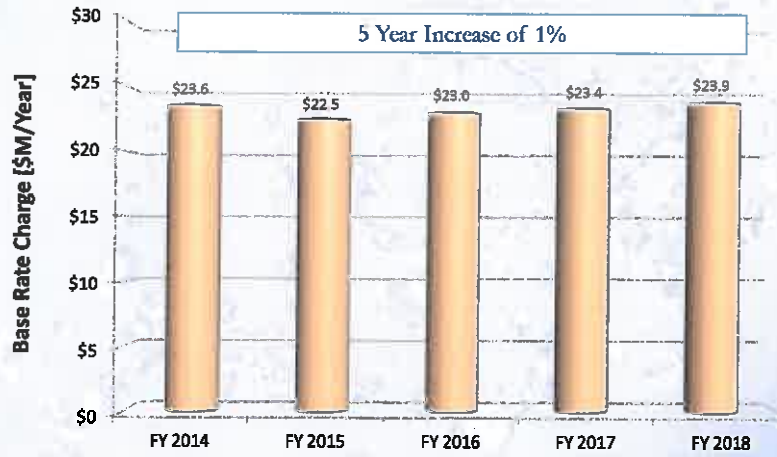
## Tentative Budget for FY 2018

### Base Rate Charge Components



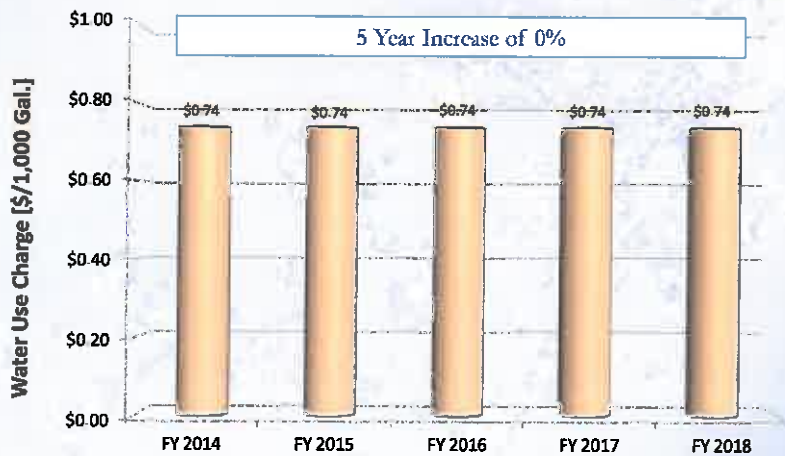
## Tentative Budget for FY 2018

### Base Rate Charge



## Tentative Budget for FY 2018

### Water Use Charge



### Tentative Budget for FY 2018

Customer Water Rate	FY 2017 Amended Budget	FY 2018 Tentative Budget	Increase/ (Decrease)
<u>Base Rate Charge</u> (\$ for FY)			
• Charlotte Co.	\$ 8,969,668	\$ 9,193,215	\$ 223,547
• DeSoto Co	\$ 482,715	\$ 492,429	\$ 9,714
• Manatee Co.	\$ 0	\$ 0	\$ 0
• Sarasota Co.	\$ 11,627,623	\$ 11,838,212	\$ 210,589
• North Port	<u>\$ 2,291,923</u>	<u>\$ 2,331,317</u>	<u>\$ 39,394</u>
	\$ 23,371,928	\$ 23,855,173	\$ 483,244
<u>Water Use Charge</u> (\$/1,000 Gal)	\$ 0.74	\$ 0.74	No Change

### Tentative Budget for FY 2018

Member Fee	FY 2017 Budget	FY 2018 Tentative Budget	Increase/ (Decrease)
<u>Member Fee</u> (\$ for FY)			
• Charlotte Co.	\$ 71,772	\$ 75,755	\$ 3,983
• DeSoto Co	\$ 47,845	\$ 50,467	\$ 2,622
• Manatee Co.	\$ 104,596	\$ 110,636	\$ 6,040
• Sarasota Co.	<u>\$ 112,286</u>	<u>\$ 118,442</u>	<u>\$ 6,156</u>
	\$ 336,500	\$ 355,300	\$ 18,801

### Tentative Budget for FY 2018

Member/Customer Planning Assessment	FY 2017 Budget	FY 2018 Tentative Budget	Increase/ (Decrease)
<u>Assessment</u> (\$ for FY)			
• Charlotte Co.	\$ 10,595	\$ 10,586	(\$ 9)
• DeSoto Co.	\$ 2,062	\$ 2,045	(\$ 17)
• Manatee Co.	\$ 22,300	\$ 22,367	\$ 67
• Sarasota Co.	\$ 24,401	\$ 24,330	(\$ 71)
• North Port	\$ 642	\$ 672	\$ 30
	\$ 60,000	\$ 60,000	\$ 0

### Tentative Budget for FY 2018

#### Budget Process



Tentative Budget for FY 2018

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Questions & Discussion

[www.regionalwater.org](http://www.regionalwater.org) FY 2018 Budget Process

Tentative Budget for FY 2018

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Staff Recommendation

Motion to approve Tentative Budget for FY 2018  
in the amount of \$49,411,364.

**TAB B**  
**FY 2018 Proposed Tentative Budget Analysis**

**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

<b>BUDGET COST ANALYSIS</b>			
Enterprise Fund	FY 2017 Approved	FY 2018 Proposed	Variance +/-
<b>AVAILABLE FUNDS</b>			
Water Sales	\$31,156,528	\$31,943,473	\$786,945
Member Fee	\$336,500	\$355,300	\$18,800
Customer Planning Assessment	\$60,000	\$60,000	\$0
<b>Subtotal</b>	<b>\$31,553,028</b>	<b>\$32,358,773</b>	<b>\$805,745</b>
Estimated Unencumbered Funds from Prior Year	\$2,836,176	\$3,835,291	\$999,115
Federal Direct Payment	\$578,300	\$578,300	\$0
Interest Income	\$40,000	\$40,000	\$0
Reserve Accounts	\$1,943,000	\$3,069,000	\$1,126,000
CIP Fund	\$3,691,000	\$4,545,000	\$854,000
Grants	\$3,290,000	\$4,985,000	\$1,695,000
<b>Total Sources</b>	<b>\$43,931,504</b>	<b>\$49,411,364</b>	<b>\$5,479,860</b>
<b>EXPENDITURES</b>			
Insurances	\$503,000	\$476,000	(\$27,000)
Personnel	\$4,522,000	\$4,840,600	\$318,600
Utilities	\$2,156,000	\$2,444,000	\$288,000
Operating Supplies	\$128,500	\$125,000	(\$3,500)
Water Treatment Chemicals	\$5,509,600	\$5,751,500	\$241,900
Repairs & Maintenance	\$1,635,200	\$1,817,000	\$181,800
Machinery & Equipment	\$298,500	\$277,500	(\$21,000)
Contract Services	\$2,183,500	\$2,252,300	\$68,800
General Administration	\$420,500	\$426,000	\$5,500
<b>Subtotal</b>	<b>\$17,356,800</b>	<b>\$18,409,900</b>	<b>\$1,053,100</b>
Debt Service	\$10,892,190	\$10,894,835	\$2,645
County Payments	\$2,772,338	\$2,772,338	\$0
Contingencies	\$520,000	\$520,000	\$0
Transfer out to R&R Account	\$2,000,000	\$2,000,000	\$0
Transfer out to CIP		\$1,000,000	
Water Purchase	\$20,000	\$20,000	\$0
Projects	\$9,024,000	\$12,449,000	\$3,425,000
Fund Disbursements	\$1,346,176	\$1,345,291	(\$885)
<b>Total Uses</b>	<b>\$43,931,504</b>	<b>\$49,411,364</b>	<b>\$5,479,860</b>

**TAB C**  
**FY 2018 Proposed Water Rate and Charges Analysis**



**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

<b>WATER RATE AND CHARGES ANALYSIS</b>			
<b>Fixed Charges</b>	<b>FY 2017 Approved</b>	<b>FY 2018 Proposed</b>	<b>Variance +/-</b>
<b>Charlotte County</b>			
Base Charge	\$8,969,668	\$9,193,215	\$223,547
Member Contribution	\$71,772	\$75,755	\$3,983
Customer Planning Assessment	\$10,595	\$10,586	(\$9)
<b>Subtotal</b>	<b>\$9,052,035</b>	<b>\$9,279,555</b>	<b>\$227,520</b>
<b>DeSoto County</b>			
Base Charge	\$482,715	\$492,429	\$9,714
Member Contribution	\$47,845	\$50,467	\$2,622
Customer Planning Assessment	\$2,062	\$2,045	(\$17)
<b>Subtotal</b>	<b>\$532,622</b>	<b>\$544,941</b>	<b>\$12,319</b>
<b>Manatee County</b>			
Base Charge	\$0	\$0	\$0
Member Contribution	\$104,596	\$110,636	\$6,040
Customer Planning Assessment	\$22,300	\$22,367	\$67
<b>Subtotal</b>	<b>\$126,896</b>	<b>\$133,003</b>	<b>\$6,107</b>
<b>Sarasota County</b>			
Base Charge	\$11,627,623	\$11,838,212	\$210,589
Member Contribution	\$112,286	\$118,442	\$6,156
Customer Planning Assessment	\$24,401	\$24,330	(\$71)
<b>Subtotal</b>	<b>\$11,764,310</b>	<b>\$11,980,985</b>	<b>\$216,675</b>
<b>City of North Port</b>			
Base Charge	\$2,291,923	\$2,331,317	\$39,394
Member Contribution	\$0	\$0	\$0
Customer Planning Assessment	\$642	\$672	\$30
<b>Subtotal</b>	<b>\$2,292,565</b>	<b>\$2,331,990</b>	<b>\$39,425</b>
<b>Enterprise Fund</b>			
Base Charge	\$23,371,929	\$23,855,173	\$483,244
Member Contribution	\$336,499	\$355,300	\$18,801
Customer Planning Assessment	\$60,000	\$60,000	\$0
<b>Total</b>	<b>\$23,768,428</b>	<b>\$24,270,473</b>	<b>\$502,045</b>
<b>Variable Charges</b>	<b>FY 2017 Approved</b>	<b>FY 2018 Proposed</b>	<b>Variance +/-</b>
<b>Water Use Rate Charge</b>			
\$/1,000 gallons	\$0.74	\$0.74	\$0.00

**TAB D**  
**FY 2018 Proposed Tentative Budget**



# **Peace River Manasota**

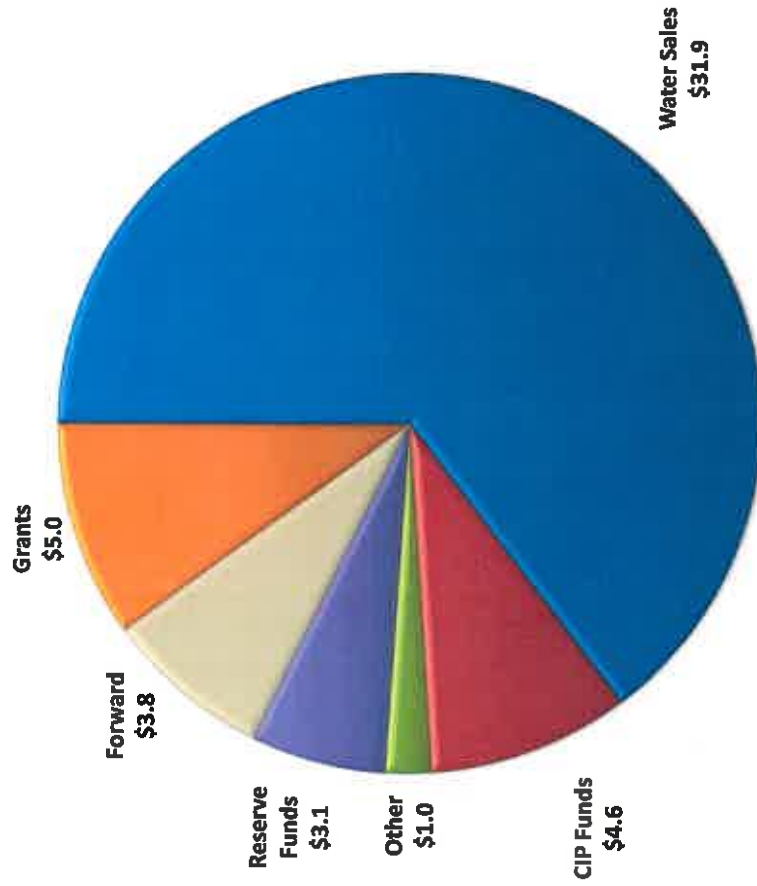
**Regional Water Supply Authority**

## **PROPOSED TENTATIVE BUDGET for FY 2018**

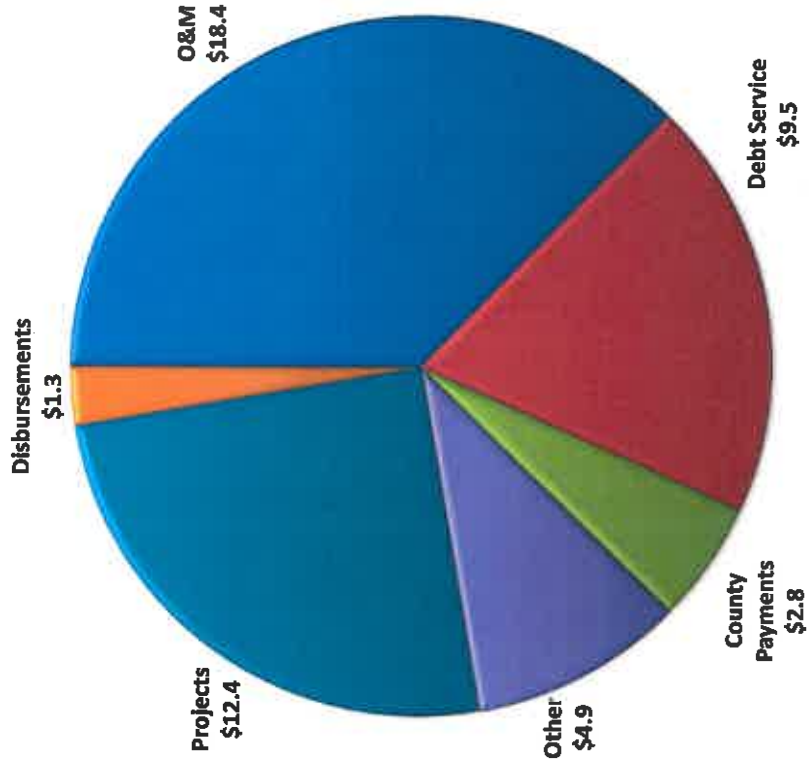
**[April 3, 2017]**

Peace River Manasota Regional Water Supply Authority  
 FY 2018 Budget

**AVAILABLE FUNDS**  
**\$49.4 M**



**EXPENDITURES**  
**\$49.4 M**



**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

<b>AVAILABLE FUNDS</b>	<b>Administrative Office</b>	<b>Facilities</b>	<b>Total Enterprise Fund</b>
<b>Revenue</b>			
Water Sales		31,943,473	31,943,473
Member Fee	355,300		355,300
Planning Assessment		60,000	60,000
Anticipated interest		40,000	40,000
Federal Direct Payment [2010B Bond Series]		578,300	578,300
<b>Subtotal</b>	<b>355,300</b>	<b>32,621,773</b>	<b>32,977,073</b>
<b>Grants</b>			
State Grant Funds		3,760,000	3,760,000
SWFWMD Grant Funds		1,225,000	1,225,000
<b>Subtotal</b>		<b>4,985,000</b>	<b>4,985,000</b>
<b>Reserve Accounts</b>			
Transfer from R&R Reserve Account		2,819,000	2,819,000
Transfer from Rate Stabilization		250,000	250,000
<b>Subtotal</b>		<b>3,069,000</b>	<b>3,069,000</b>
<b>CIP Fund</b>			
CIP Project Funds		3,795,000	3,795,000
Punta Gorda Payment		750,000	750,000
<b>Subtotal</b>		<b>4,545,000</b>	<b>4,545,000</b>
<b>Funds Brought Forward</b>			
Carry Forward from FY2017	350,000	2,140,000	2,490,000
Funds Brought Forward for Disbursement		1,345,291	1,345,291
<b>Subtotal</b>	<b>350,000</b>	<b>3,485,291</b>	<b>3,835,291</b>
<b>Total Funds Available</b>	<b>705,300</b>	<b>48,706,064</b>	<b>49,411,364</b>

Peace River Manasota Regional Water Supply Authority  
 FY 2018 Budget

EXPENDITURES	Administrative Office	Facilities	Total Enterprise Fund
<b>OPERATION &amp; MAINTENANCE</b>			
<b>Insurances</b>			
Property/Liability/Workmen's Compensation		445,000	445,000
Auto		25,000	25,000
Public Officials Liability	6,000		6,000
	6,000	470,000	476,000
<b>Personnel</b>			
Administration	312,000	450,000	762,000
Facility Operations/Maintenance		2,454,000	2,454,000
	312,000	2,904,000	3,216,000
<b>Benefits</b>			
FICA Taxes	24,000	218,000	242,000
Fla. Retirement System	50,000	272,000	322,000
Health Insurance	68,300	992,300	1,060,600
	142,300	1,482,300	1,624,600
<b>Utilities</b>			
Electric Power	5,000	2,337,000	2,342,000
Diesel Fuel		20,000	20,000
Vehicle Fuel	5,000	40,000	45,000
Telephone	2,000	35,000	37,000
	12,000	2,432,000	2,444,000
<b>Operating Supplies</b>			
General Operations		50,000	50,000
Laboratory Supplies		75,000	75,000
	0	125,000	125,000
<b>Water Treatment Chemicals</b>			
Aluminum Sulfate		1,650,100	1,650,100
Sodium Hydroxide		1,107,500	1,107,500
Carbon		1,820,000	1,820,000
Coagulant Aid		328,600	328,600
Sodium Hypochlorite		652,100	652,100
Aqua Ammonia		90,700	90,700
Copper Sulfate		102,500	102,500
		5,751,500	5,751,500

Peace River Manasota Regional Water Supply Authority  
 FY 2018 Budget

EXPENDITURES	Administrative Office	Facilities	Total Enterprise Fund
<b>Repairs &amp; Maintenance</b>			
Water Treatment Facilities		697,500	697,500
Water Resources		538,000	538,000
Land Management		461,000	461,000
Regional Transmission System		76,000	76,000
Vehicle Fleet Maintenance	3,000	41,500	44,500
Subtotal	3,000	1,814,000	1,817,000
<b>Machinery &amp; Equipment</b>			
<b>Machinery &amp; Equipment</b>		277,500	277,500
<b>Contract Services</b>			
Annual Audit	4,000	40,000	44,000
Engineering Services - General		265,000	265,000
Hydrogeological Services		200,000	200,000
Environmental Services		85,000	85,000
Rate Consulting Services	0	30,000	30,000
Information/Technology Services	12,000	80,000	92,000
Reservoir Permit Monitoring		306,000	306,000
Equipment Rental	7,000	50,000	57,000
Legal Services	24,000	250,000	274,000
Legislative Monitoring Services		50,000	50,000
Off-Site Treatment Residual Hauling and Disposal		249,800	249,800
Outside Lab Services - Drinking Water/ASR/EPA		100,000	100,000
Watershed Programs/Monitoring/Protection [HBMP, MFL, Stewardship]		467,000	467,000
Charlotte Harbor NEP		3,500	3,500
Uniforms		15,000	15,000
Contract Labor	6,000	8,000	14,000
Subtotal	53,000	2,199,300	2,252,300

**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

<b>EXPENDITURES</b>	<b>Administrative Office</b>	<b>Facilities</b>	<b>Total Enterprise Fund</b>
<b>General Administration</b>			
Office Rental	75,000	75,000	150,000
Office Maintenance	6,500	2,000	8,500
Advertising	3,500	6,000	9,500
Software	2,500	25,000	27,500
Office Supplies	5,000	25,000	30,000
Postage/Shipping	1,000	8,000	9,000
Books, Dues, Subs & Memberships	4,500	15,000	19,500
Training	4,000	4,000	8,000
Professional Development/Cont. Education	4,500	14,000	18,500
Mileage/Travel Reimbursement	10,000	20,000	30,000
Public Outreach/Education Programs/Website	40,000	40,000	80,000
Misc. Fees [permits, registrations, licenses, certifications, bank charges]	500	35,000	35,500
<b>Total - Operations &amp; Maintenance</b>	<b>157,000</b>	<b>269,000</b>	<b>426,000</b>
<b>Subtotal</b>	<b>685,300</b>	<b>17,724,600</b>	<b>18,409,900</b>



Peace River Manasota Regional Water Supply Authority  
 FY 2018 Budget

EXPENDITURES	Administrative Office	Facilities	Total Enterprise Fund
<b>NON-OPERATION &amp; MAINTENANCE</b>			
Annual Debt Service			
2010A Bond Series		591,300	591,300
2010B Bond Series		1,892,100	1,892,100
2014 Bond Series		4,536,300	4,536,300
2015 Bond Series		2,529,500	2,529,500
Subtotal		9,549,200	9,549,200
<b>County Payments</b>			
Capital Component Charge		1,971,557	1,971,557
DeSoto Payment		796,000	796,000
North Port Payment to Charlotte		4,781	4,781
Subtotal		2,772,338	2,772,338
<b>Other Rate Related Expenditures</b>			
Contribution to R&R Reserve		2,000,000	2,000,000
Transfer to CIP		1,000,000	1,000,000
Contingencies	20,000	500,000	520,000
Water Purchase		20,000	20,000
Debt Service Coverage Fund		1,345,635	1,345,635
Subtotal	20,000	4,865,635	4,885,635
<b>Total Rate Related Expenditures</b>	<b>705,300</b>	<b>34,911,773</b>	<b>35,617,073</b>

**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

<b>EXPENDITURES</b>	<b>Administrative Office</b>	<b>Facilities</b>	<b>Total Enterprise Fund</b>
<b><u>NON-RATE RELATED EXPENDITURES</u></b>			
<b>Projects</b>			
CIP Projects		9,530,000	9,530,000
Renewal & Replacement Projects		2,819,000	2,819,000
Resource/Supply Development Projects		100,000	100,000
<b>Subtotal</b>		<b>12,449,000</b>	<b>12,449,000</b>
<b>Fund Disbursements</b>			
Charlotte County		268,771	268,771
DeSoto County		33,766	33,766
Sarasota County		889,308	889,308
North Port		153,446	153,446
<b>Subtotal</b>		<b>1,345,291</b>	<b>1,345,291</b>
<b>Total Non-Rate Related Expenditures</b>		<b>13,794,291</b>	<b>13,794,291</b>
<b>Total Expenditures</b>	<b>705,300</b>	<b>48,706,064</b>	<b>49,411,364</b>

Peace River Manasota Regional Water Supply Authority  
 FY 2018 Budget

DEBT SERVICE

Bond Series	Cost Allocation	Percent Allocation
<b>2010A Bond Series</b>		
REP Facility	\$591,300	
<b>2010B Bond Series</b>		
RTS - Phase 2 Pipeline	\$675,669	35.71%
RTS - Phase 3A Pipeline	\$1,216,431	64.29%
Subtotal	\$1,892,100	100.00%
Total	\$2,483,400	
<b>2014A Bond Series</b>		
REP Facility (includes 20-Inch RTS)	\$1,514,061	86.99%
REP Oversized Payment	\$60,569	3.48%
Bank of America Loan	\$165,870	9.53%
Subtotal	\$1,740,500	100.00%
<b>2014B Bond Series</b>		
REP Facility (includes 20-Inch RTS)	\$2,432,066	86.99%
REP Oversized Payment	\$97,294	3.48%
Bank of America Loan	\$266,440	9.53%
Subtotal	\$2,795,800	100.00%
Total	\$4,536,300	
<b>2015 Bond Series</b>		
PRO Facility	\$1,802,931	71.28%
PRO Oversized Payment	\$154,649	6.11%
42-inch RTS Pipeline	\$559,778	22.13%
24-inch RTS Pipeline	\$12,142	0.48%
Total	\$2,529,500	100.00%
<b>Total Debt Service</b>	\$9,549,200	

**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

**2010A BOND SERIES  
Customer Allocation**

<b>Customer Debt Service Percentages</b>		
Customer	2010A Bond Series REP Facility	
Charlotte County	0.00%	
DeSoto County	1.11%	
Sarasota County	84.79%	
City of North Port	14.10%	
<b>Total</b>	<b>100.00%</b>	

<b>Customer Debt Service Cost</b>		
Customer	Debt Service Cost	2010A Bond Series REP Facility
Charlotte County	\$0	\$0
DeSoto County	\$6,563	\$6,563
Sarasota County	\$501,363	\$501,363
City of North Port	\$83,373	\$83,373
<b>Total</b>	<b>\$591,300</b>	<b>\$591,300</b>

Peace River Manasota Regional Water Supply Authority  
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2010B BOND SERIES  
 Customer Allocation

Customer Debt Service Percentages			
Customer	2010B Bond Series RTS Phase 2 Pipeline	2010B Bond Series RTS Phase 3A Pipeline	
Charlotte County	0.00%	0.00%	
DeSoto County	0.00%	0.00%	
Sarasota County	0.00%	100.00%	
City of North Port	100.00%	0.00%	
Total	100.00%	100.00%	

Customer Debt Service Cost			
Customer	Debt Service Cost	2010B Bond Series RTS Phase 2 Pipeline	2010B Bond Series RTS Phase 3A Pipeline
Charlotte County	\$0	\$0	\$0
DeSoto County	\$0	\$0	\$0
Sarasota County	\$1,216,431	\$0	\$1,216,431
City of North Port	\$675,669	\$675,669	\$0
Total	\$1,892,100	\$675,669	\$1,216,431

Federal Direct Payment [2010B Bond Series]			
Customer	Federal Subsidy	2010B Bond Series RILS Phase 2	2010B Bond Series RILS Phase 3A
Charlotte County	\$0	\$0	\$0
DeSoto County	\$0	\$0	\$0
Sarasota County	(\$371,789)	\$0	(\$371,789)
City of North Port	(\$206,511)	(\$206,511)	\$0
Total	(\$578,300)	(\$206,511)	(\$371,789)

Peace River Manasota Regional Water Supply Authority  
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2014 BOND SERIES  
 Customer Allocation

Customer Debt Service Percentages					
Customer	REP Facility	REP Oversized Payment	Bank of America Loan		
Charlotte County	27.21%	0.00%	27.21%		
DeSoto County	0.81%	1.10%	0.81%		
Sarasota County	61.72%	85.62%	61.72%		
City of North Port	10.26%	13.28%	10.26%		
<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>		

Customer Debt Service Cost					
Customer	Debt Service Cost	REP Facility	REP Oversized Payment	Bank of America Loan	
Charlotte County	\$1,191,373	\$1,073,741	\$0	\$117,631	
DeSoto County	\$37,202	\$31,964	\$1,736	\$3,502	
Sarasota County	\$2,837,534	\$2,435,550	\$135,163	\$266,821	
City of North Port	\$470,192	\$404,873	\$20,964	\$44,355	
<b>Total</b>	<b>\$4,536,300</b>	<b>\$3,946,127</b>	<b>\$157,863</b>	<b>\$432,309</b>	

Peace River Manasota Regional Water Supply Authority  
 FY 2018 Budget

2015 BOND SERIES  
 Customer Allocation

Customer Debt Service Percentages						
Customer	PRO Facility	PRO Oversized Payment	42-inch RTS Pipeline	24-inch RTS Pipeline		
Charlotte County	33.33%	0.00%	0.00%	0.00%		
DeSoto County	8.33%	12.50%	0.00%	100.00%		
Sarasota County	58.34%	87.50%	100.00%	0.00%		
City of North Port	0.00%	0.00%	0.00%	0.00%		
<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>		
Customer Debt Service Cost						
Customer	Debt Service Cost	PRO Facility	PRO Oversized Payment	42-inch RTS Pipeline	24-inch RTS Pipeline	
Charlotte County	\$600,917	\$600,917	\$0	\$0	\$0	
DeSoto County	\$181,657	\$150,184	\$19,331	\$0	\$12,142	
Sarasota County	\$1,746,926	\$1,051,830	\$135,318	\$559,778	\$0	
City of North Port	\$0	\$0	\$0	\$0	\$0	
<b>Total</b>	<b>\$2,529,500</b>	<b>\$1,802,931</b>	<b>\$154,649</b>	<b>\$559,778</b>	<b>\$12,142</b>	

Peace River Manasota Regional Water Supply Authority  
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**CAPITAL COMPONENT CHARGE**  
 Customer Allocation

<b>Capital Component Charge</b>		
	Capital Component Charge	Percent Allocation
<b>Debt to Charlotte County</b>		
1991 Facility	\$1,664,191	84.41%
36-inch RTS	\$307,366	15.59%
<b>Total</b>	<b>\$1,971,557</b>	<b>100.00%</b>

**Cost Allocation Percentages**

	1991 Facility	36-inch RTS Pipeline
Charlotte County	89.65%	89.65%
DeSoto County	0.42%	0.42%
Sarasota County	0.00%	0.00%
City of North Port	9.93%	9.93%
<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>

**Capital Component Charge Cost**

	Capital Component Charge	1991 Facility	36-inch RTS Pipeline
Charlotte County	\$1,767,501	\$1,491,947	\$275,553
DeSoto County	\$8,281	\$6,990	\$1,291
Sarasota County	\$0	\$0	\$0
City of North Port	\$195,776	\$165,254	\$30,521
<b>Total</b>	<b>\$1,971,557</b>	<b>\$1,664,191</b>	<b>\$307,366</b>



Peace River Manasota Regional Water Supply Authority  
 FY 2018 Budget

RENEWAL AND REPLACEMENT RESERVE ACCOUNT EXPENDITURES

ITEM NO.	RENEWAL & REPLACEMENT PROJECTS	FY 2018
1	Treatment Processes	706,000
2	Reservoirs & Raw Water Pumping	317,000
3	ASR Wells & Monitoring Systems	98,000
4	Roads & Grounds	360,000
5	General Buildings	448,000
6	Transmission Systems and Remote Sites	515,000
7	SCADA, IT & Communications	75,000
8	Security	300,000
<b>TOTAL R &amp; R PROJECTS</b>		<b>2,819,000</b>

**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

**CAPITAL IMPROVEMENT PROGRAM  
Funded CIP Projects**

Item	CIP Project	Prior Years				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Future	Total
1	Regional Integrated Loop - Phase 1 [U.S. 17/Shell Creek]				1,100,000	4,900,000	5,700,000	300,000				12,000,000
2	Regional Integrated Loop - Phase 3B [S.R. 681 to Clark Road]				1,200,000	3,500,000	8,800,000	11,100,000	2,368,000			26,968,000
3	Raw Water ASR - [Pilot testing, Permitting, Implementation]				225,000	230,000	750,000	6,550,000				7,755,000
4	Facilities Improvements - [Maintenance Warehouse]				400,000	900,000	200,000					1,500,000
5	Regional Integrated Loop - Phase 3D [Fruitville Road to Manatee]				4,915,000		4,925,000					4,915,000
6	Regional Integrated Loop - Phase 4 [Burnt Store Interconnect]						540,000	2,350,000	3,250,000	29,860,000		4,925,000
7	Regional Integrated Loop - Phase 3C [Clark Road to Fruitville Road]							3,000,000	7,000,000	3,800,000		36,000,000
8	Peace River Facility Phase 2 Capacity Increase [4 MGD]											13,800,000
	<b>Total CIP Project Costs</b>				<b>2,925,000</b>	<b>9,530,000</b>	<b>20,365,000</b>	<b>23,415,000</b>	<b>7,718,000</b>	<b>10,250,000</b>	<b>33,660,000</b>	<b>107,863,000</b>

Item	CIP Project Funding Sources	Prior Years				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Future	Total
1	Regional Integrated Loop - Phase 1 [U.S. 17/Shell Creek]											
	State Grant Funds				600,000	3,400,000						4,000,000
	SWFWMD Grant Fund				750,000	4,950,000	300,000					6,000,000
	Punta Gorda Payment				500,000	750,000	750,000					2,000,000
2	Regional Integrated Loop - Phase 3B [S.R. 681 to Clark Road]											
	State Grant Funds				90,000	360,000	50,000					500,000
	SWFWMD Grant Fund				555,000	360,000	4,375,000	5,550,000	1,184,000			12,024,000
	CIP Funds [Sarasota County]				555,000	2,780,000	4,375,000	5,550,000	1,184,000			14,444,000
3	Raw Water ASR											
	SWFWMD Grant Fund				115,000	375,000	3,275,000					3,765,000
	CIP Funds				225,000	115,000	375,000	3,275,000				3,990,000
4	Facilities Improvements - [Maintenance Warehouse]											
	CIP Funds				400,000	900,000	200,000					1,500,000
5	Regional Integrated Loop - Phase 3D [Fruitville Road to Manatee]											
	SWFWMD Grant Fund						2,457,500					2,457,500
	CIP Funds [Sarasota County]						2,457,500					2,457,500
6	Regional Integrated Loop - Phase 4 [Burnt Store Interconnect]											
	SWFWMD Grant Fund						2,462,500					2,462,500
	CIP Funds [Charlotte County]						2,462,500					2,462,500
7	Regional Integrated Loop - Phase 3C [Clark Road to Fruitville Road]											
	SWFWMD Grant Fund						270,000	1,175,000	1,625,000	14,930,000		18,000,000
	CIP Funds [TBD]						270,000	1,175,000	1,625,000	14,930,000		18,000,000
8	Peace River Facility Phase 2 Capacity Increase [4 MGD]											
	SWFWMD Grant Fund							1,500,000	3,500,000	1,900,000		6,900,000
	CIP Funds							1,500,000	3,500,000	1,900,000		6,900,000
	<b>Total CIP Project Funding Sources</b>				<b>2,925,000</b>	<b>9,530,000</b>	<b>20,365,000</b>	<b>23,415,000</b>	<b>7,718,000</b>	<b>10,250,000</b>	<b>33,660,000</b>	<b>107,863,000</b>

CIP Funding Revenue by Source	Prior Years				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Future	Total
CIP Fund					1,180,000	3,795,000	7,407,500	11,557,500	3,859,000	5,125,000	49,754,000
State Grant Funds					690,000	3,760,000	50,000				4,500,000
SWFWMD Grant Fund					555,000	1,225,000	12,157,500	11,857,500	3,859,000	5,125,000	51,609,000
Punta Gorda Payment					500,000	750,000	750,000				2,000,000
	<b>Total CIP Funding Revenue by Source</b>				<b>2,925,000</b>	<b>9,530,000</b>	<b>20,365,000</b>	<b>23,415,000</b>	<b>7,718,000</b>	<b>10,250,000</b>	<b>107,863,000</b>

Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget

**PLANNING PROJECTS**

ITEM NO.	Planning Projects	FY 2018 Expenditure	Funds Brought Forward	Other Funding	FY 2018 Assessment
1	Water Advocacy/One Water Initiative	40,000	20,000		20,000
2	Strategic Plan Implementation	50,000	20,000		30,000
3	Peace River Basin Issues	10,000			10,000
	<b>TOTAL R/S DEVELOPMENT PROJECTS</b>	<b>100,000</b>	<b>40,000</b>		<b>60,000</b>

Peace River Manasota Regional Water Supply Authority  
 FY 2018 Budget

**WATER RATE [Authority Customers]**  
 10/01/2017 to 09/30/2018

<b>Total Monthly Water Charge to Customers</b> [Charge per Month]	<b>Monthly Charge = Base Rate Charge + (Water Use Charge x Actual Water Delivered)</b>
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	Totals
<b>Base Rate Charge</b> [Annual costs to be allocated]	
<b>Non-Capital Cost Component</b>	
Fixed O & M Cost Component	9,386,300
Contribution to R & R Reserve	2,000,000
Transfer to CIP	1,000,000
Contingencies	500,000
Projected Interest Earned	(40,000)
Funds Brought Forward	(2,100,000)
<b>Sub-Total Non-Capital Cost Component</b>	<b>10,746,300</b>
Water Purchase	20,000
<b>Total Non-Capital Cost Component</b>	<b>\$10,766,300</b>
<b>Debt Service Cost</b>	
2010A Bonds	591,300
2010B Bonds	1,892,100
2014 Bonds	4,536,300
2015 Bonds	2,529,500
<b>Total Debt Service</b>	<b>\$9,549,200</b>
<b>Debt Service Coverage Payments</b>	<b>\$1,345,635</b>
<b>Debt Service Contributions</b>	
Federal Direct Payment [2010B Bonds]	(\$578,300)
<b>County Payments</b>	
Capital Component Charge	1,971,557
DeSoto Payment	796,000
North Port Payment to Charlotte	4,781
<b>Total County Payments</b>	<b>\$2,772,338</b>
<b>Total Base Rate Charge</b>	<b>\$23,855,173</b>

**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

<b>Annual Base Rate Charge By Customer</b>											
	Total	Non-Capital Component	2010A Bonds	2010B Bonds	2014 Bonds	2015 Bonds	Debit Service Coverage Payment	Federal Subsidy 2010B Bonds	Capital Component Charge	DeSoto Payment	North Port Payment to Charlotte
Charlotte County	9,193,215	4,995,315	0	0	1,191,373	600,917	268,843	0	1,767,501	369,266	0
DeSoto County	492,429	209,431	6,563	0	37,202	181,657	33,813	0	8,281	15,482	0
Sarasota County	11,838,212	4,672,636	501,363	1,216,431	2,837,534	1,746,926	889,570	(371,789)	0	345,541	0
City of North Port	2,331,317	888,918	83,373	675,669	470,192	0	153,408	(206,511)	195,776	65,711	0
<b>Total</b>	<b>\$23,855,173</b>	<b>\$10,766,300</b>	<b>\$591,300</b>	<b>\$1,892,100</b>	<b>\$4,536,300</b>	<b>\$2,529,500</b>	<b>\$1,345,635</b>	<b>(\$578,300)</b>	<b>\$1,971,557</b>	<b>\$796,000</b>	<b>\$4,781</b>
<b>Monthly Base Rate Charge By Customer</b>											
Charlotte County	766,101										
DeSoto County	41,036										
Sarasota County	986,518										
City of North Port	194,276										
<b>Total</b>	<b>\$1,987,931</b>										
<b>Master Water Supply Contract Water Allocation</b>											
Million Gallons Per Day [MGD]	Annual Average Daily [MGD]										
Charlotte County	16.100										
DeSoto County	0.675										
Sarasota County	15.060										
City of North Port	2.865										
<b>Total</b>	<b>34.700</b>										

<b>Water Use Charge</b>	
[Charge per 1,000 gallons]	
Water Use Rate Charge	Total
	\$0.74

**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

**REDISTRIBUTION POOL**  
10/01/2017 to 09/30/2018

<b>Redistribution Pool Water Quantities</b>						
	(1) Water Allocation [MGD]	(2) New Water Supply [MGD]	Total Contracted Allocation [MGD]	(3) Available for Pool [MGD]	Requested from Pool [MGD]	(4) Budget Allocation [MGD]
Charlotte County	16.100	0.000	16.100	2.500	0.000	16.100
DeSoto County	0.675	0.000	0.675	0.000	0.000	0.675
Sarasota County	15.060	0.000	15.060	4.900	0.000	15.060
City of North Port	2.865	0.000	2.865	0.500	0.000	2.865
<b>Total</b>	<b>34.700</b>	<b>0.000</b>	<b>34.700</b>	<b>7.900</b>	<b>0.000</b>	<b>34.700</b>

<b>Redistribution Pool Water Base Rate Charge Adjustment</b>		
	Annual Cost [\$ /Year]	Annual Unit Cost [\$/MGD]
Peace River Facility REP Debt Service	5,127,600	348,816
Non-Capital Component	10,766,300	310,268
DeSoto Payment	796,000	22,939
<b>Redistribution Pool Water Base Rate</b>		<b>\$682,024</b>

- (1) Peace River/Manasota Regional Water Supply Authority Master Water Supply Contract - Exhibit B 'Water Allocations' (Peace River Facility water allocations).
- (2) Peace River/Manasota Regional Water Supply Authority Master Water Supply Contract - Exhibit C 'New Water Supply Demands'.
- (3) Pool water based on Customer submittals (January 2017).
- (4) Total annual average water allocated for FY 2018 budget.

<b>Redistribution Pool Base Rate Charge Adjustment by Customer</b>			
	Annual Base Rate Adjustment		Monthly Base Rate Adjustment
	To Pool	From Pool	To Pool
Charlotte County	0	0	0
DeSoto County	0	0	0
Sarasota County	0	0	0
City of North Port	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

**INTERCONNECT WATER CHARGE [GOVERNMENT RATE]  
10/01/2017 to 09/30/2018**

<b>Water Charge to Municipalities Interconnected to Regional Transmission System</b>	
[Charge per 1,000 Gallons]	
<b>Water Rate</b>	
[Charge per 1,000 Gallons]	
	Water Rate Charge in \$/1,000 gallons metered water delivery for cumulative delivery to all interconnects up to quantity identified as 'Available from Pool' in the Redistribution Pool for the current fiscal year.
\$3.30	
	Water Rate Charge in \$/1,000 gallons metered water delivery for cumulative delivery to all interconnects in excess of the quantity identified as 'Available from Pool' in the Redistribution Pool for the current fiscal year.
\$6.60	

Revenue received from these water sales will, at the discretion of the Authority Board, be applied as a credit toward the obligations of the Authority Customers apportioned to each of their allocations to the 'Available from Pool' in the Redistribution Pool for the current fiscal year. Water rate for emergency use unless Interlocal Agreement provides alternative water rate.

Peace River Manasota Regional Water Supply Authority  
 FY 2018 Budget

**CUSTOMER PLANNING ASSESSMENT**  
 10/01/2017 to 09/30/2018

Planning Assessments [Annual costs to be allocated]	Total	Distribution (1)		
		Water Advocacy/One Water Initiative	Strategic Plan Implementation	Peace River Basin Issues
Charlotte County	10,586	3,529	5,293	1,764
DeSoto County	2,045	682	1,022	341
Manatee County	22,367	7,456	11,183	3,728
Sarasota County	24,330	8,334	12,501	3,495
City of North Port	672	0	0	672
<b>Total</b>	<b>\$60,000</b>	<b>\$20,000</b>	<b>\$30,000</b>	<b>\$10,000</b>

(1) Reserve Fund Assessments will be invoiced on October 1, 2016.

Water Allocation [Million Gallons Per Year]	Water Allocation [MGD]	Water Allocation [Percentage]
Charlotte County	16.100	46.4%
DeSoto County	0.675	1.9%
Manatee County	0.000	0.0%
Sarasota County	15.060	43.4%
City of North Port	2.865	8.3%
<b>Total</b>	<b>34.700</b>	<b>100.0%</b>

Population	Population	Population [Percentage]
Charlotte County	169,152	17.64%
DeSoto County	32,676	3.41%
Manatee County	357,404	37.28%
Sarasota County	335,060	34.95%
City of North Port	64,472	6.72%
<b>Total</b>	<b>958,764</b>	<b>100.00%</b>



**Peace River Manasota Regional Water Supply Authority  
FY 2018 Budget**

**MEMBER FEE**  
10/01/2017 to 09/30/2018

<b>Contribution Amount to be Derived</b>		<b>Totals</b>	
Administrative Office Authority Support		\$705,300	
Projected Interest Earned		\$0	
Estimated Brought Forward - Undesignated		(\$350,000)	
<b>Amount to be Derived</b>		<b>\$355,300</b>	
<b>Population Basis</b>			
	<b>*Population 4/1/2016</b>		<b>% of Total Population</b>
Charlotte County	169,152		17.64%
DeSoto County	32,676		3.41%
Manatee County	357,404		37.28%
Sarasota County	399,532		41.67%
<b>Total</b>	<b>958,764</b>		<b>100.00%</b>
<b>Weighted Contribution</b>			
	<b>Base Contribution</b>		<b>Pro Rated Share</b>
Charlotte County	\$44,413		\$31,342
DeSoto County	\$44,413		\$6,055
Manatee County	\$44,413		\$66,224
Sarasota County	\$44,413		\$74,030
<b>Total Weighted Contribution</b>			<b>\$118,442</b>
			<b>\$355,300</b>

**Member Contribution Formula:**

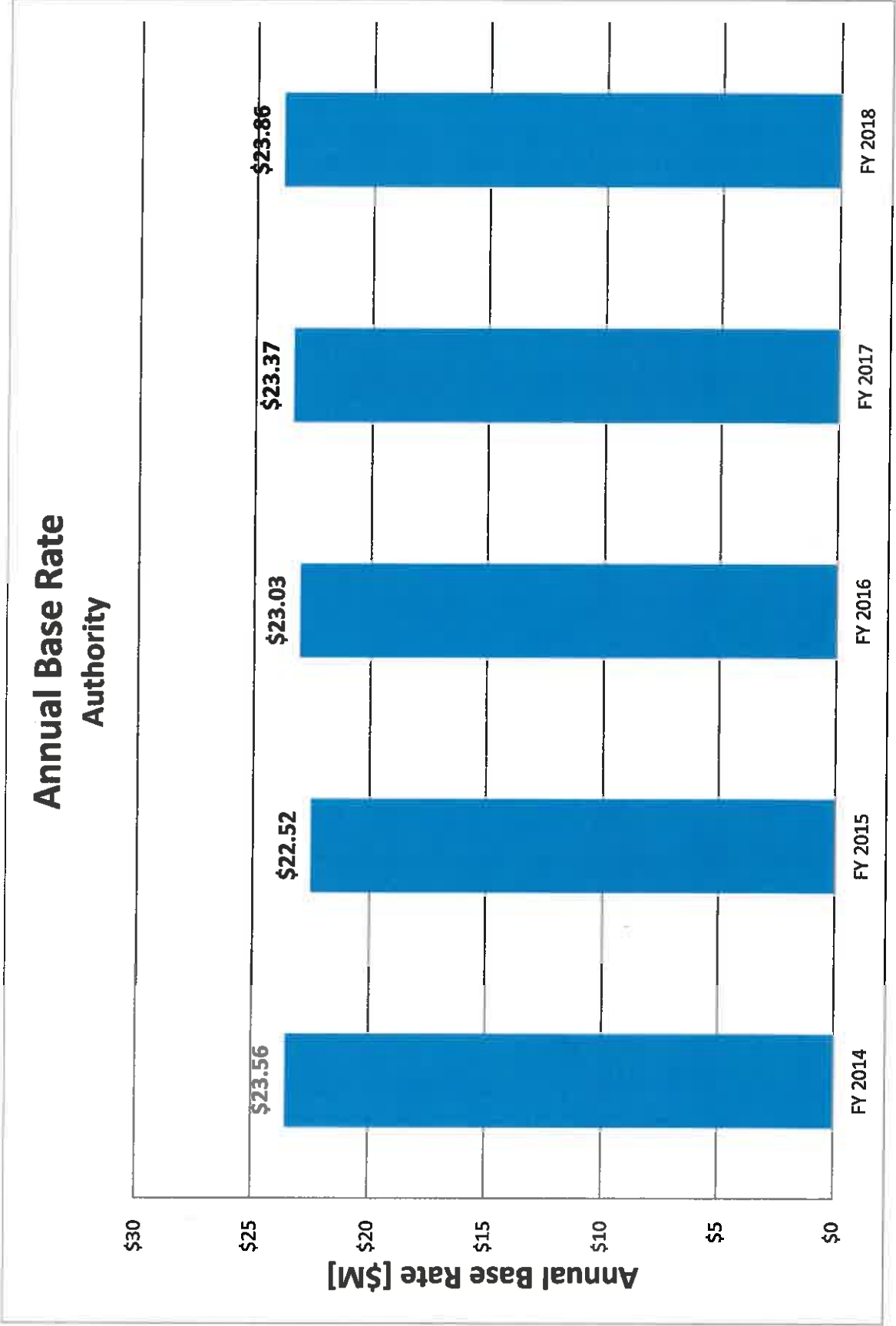
*Base Contribution = 1/2 amount to be derived divided by 4*

*Pro rated share = 1/2 amount to be derived times % of Population*

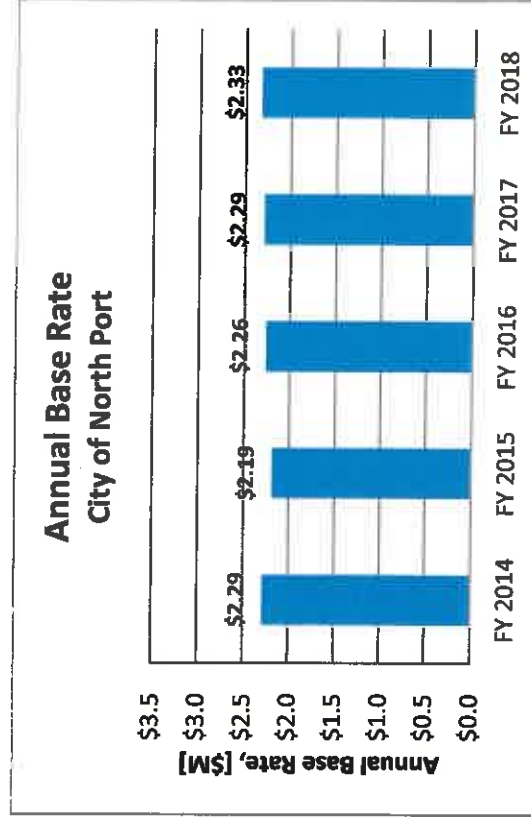
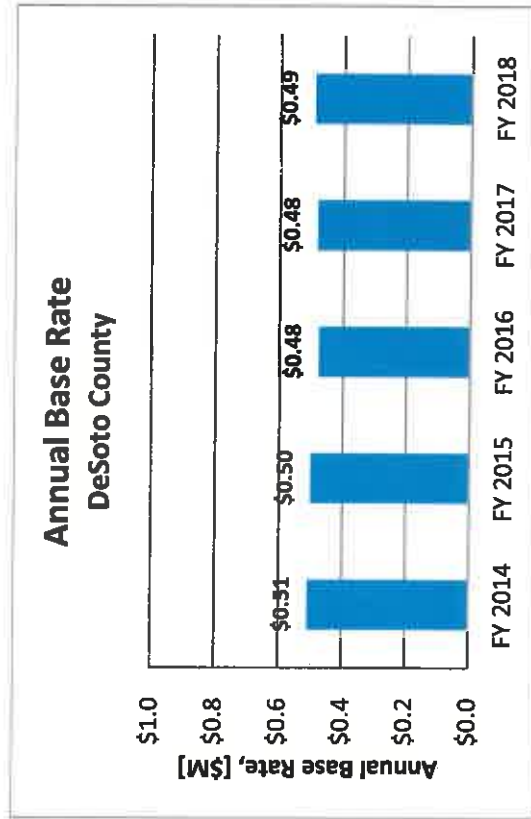
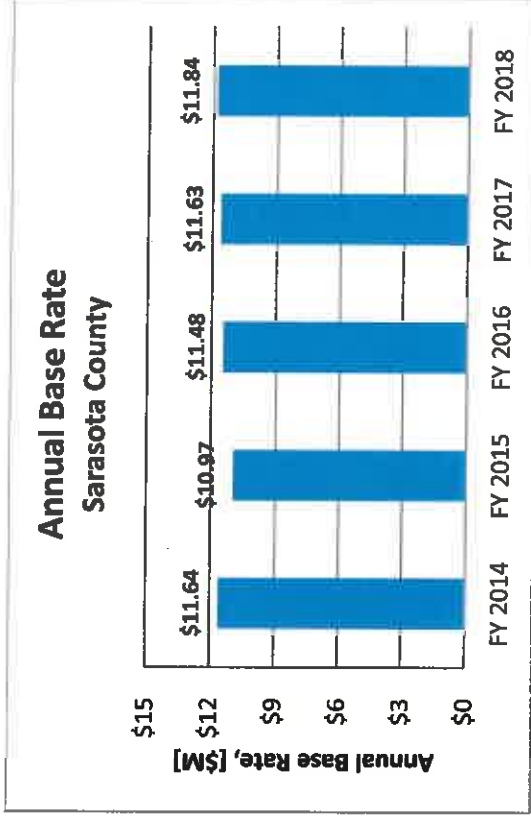
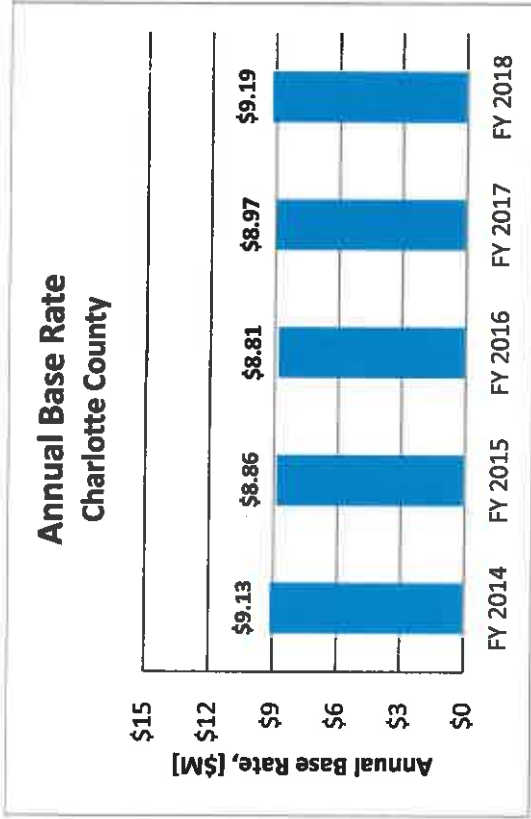
\* Source: 'Estimates o Population by County and City in Florida [Bureau of Economic and Business Research; University of Florida, April 1, 2016]

**TAB E**  
**Historical Water Rate Comparison**

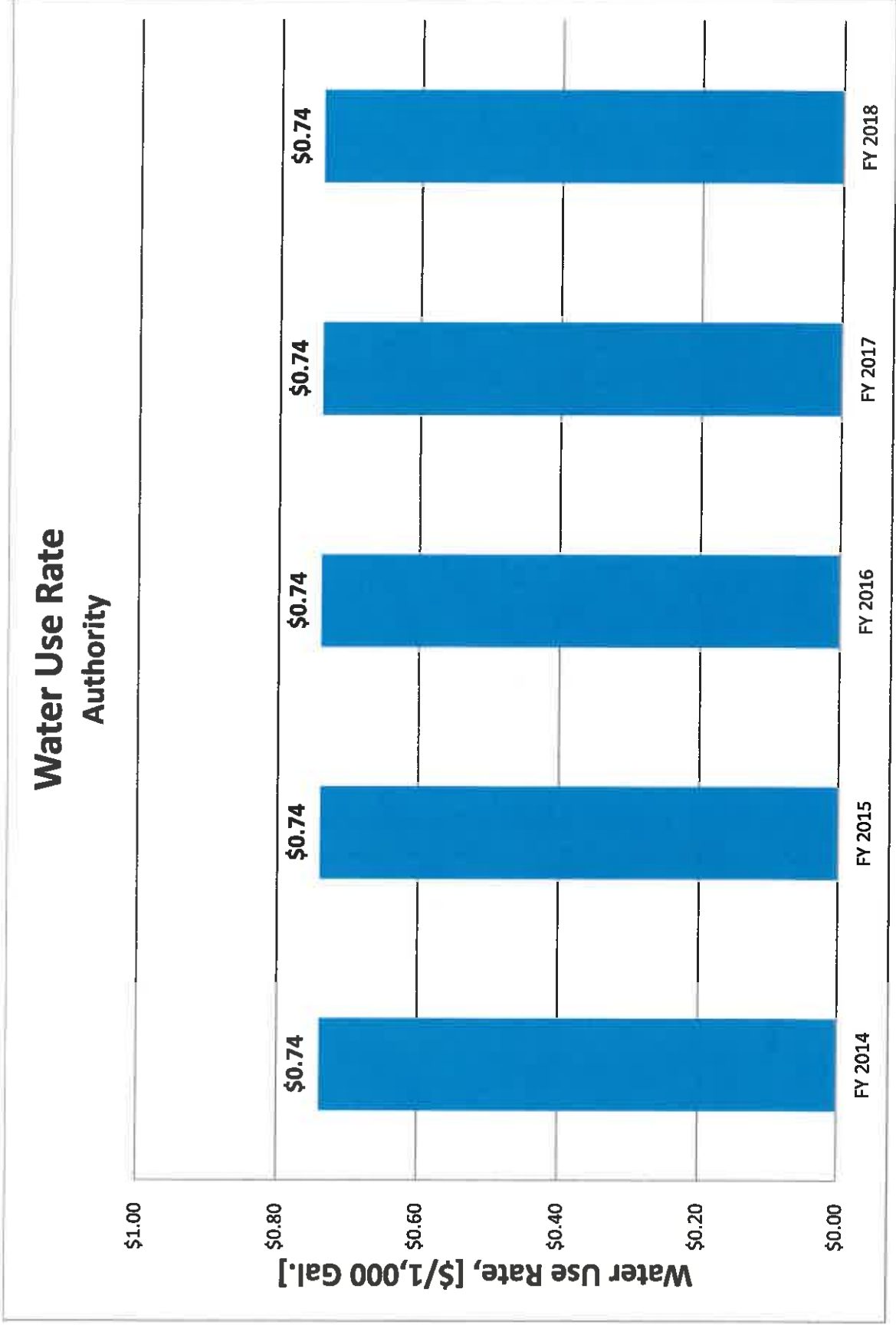
# FY 2018 Proposed Tentative Budget



# FY 2018 Proposed Tentative Budget



# FY 2018 Proposed Tentative Budget



**TAB F**  
**Historical Expenditures Comparison**

**ADMINISTRATIVE EXPENDITURES**

**Peace River Manasota Regional Water Supply Authority  
FY 2018 BUDGET WORKSHEET**

**ADMINISTRATIVE  
EXPENDITURES**

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>GENERAL OPERATIONS &amp; MAINTENANCE</b>							
<b>Insurances</b>							
Property/Liability/Workmen's Compensation							
Public Officials Liability	6,000	6,000	5,718	5,917	6,000	6,000	0
Auto							
<b>Personnel Services</b>							
Maintenance							
Administrative							
Operators	255,043	255,237	302,477	292,261	300,000	312,000	12,000
<b>Benefits Group</b>							
FICA Taxes	16,346	15,755	21,896	19,054	22,000	24,000	2,000
Fla. Retirement System	14,329	40,991	43,635	48,744	45,000	50,000	5,000
Health Insurance	31,324	43,041	99,699	51,413	65,000	68,300	3,300
<b>Utilities Group</b>							
Electric Power	4,089	3,645	3,439	3,562	5,000	5,000	0
Diesel Fuel							
Vehicle Fuel	5,412	4,686	2,952	2,462	5,000	5,000	0
Telephone	1,642	346	344	1,713	1,000	2,000	1,000
<b>Operating Supplies</b>							
General Operations	11,143	8,677	6,735	7,737	11,000	12,000	0
Laboratory					3,500		(3,500)
<b>Water Treatment Chemicals</b>							
Aluminum Sulfate	0	0	0	0	3,500	0	(3,500)
Sodium Hydroxide							
Carbon							
Aque Ammonia							
Coagulant Aid [water treatment]							
Copper Sulfate/Potassium Permanganate							
Sodium Hypochlorite							
<b>Subtotal</b>	0	0	0	0	0	0	0



**Peace River Manasota Regional Water Supply Authority  
FY 2018 BUDGET WORKSHEET**

**ADMINISTRATIVE  
EXPENDITURES**

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>Repairs &amp; Maintenance</b>							
Water Treatment Facilities							
Water Resource				1,442	3,000	3,000	0
Land Management				1,442	3,000	3,000	0
Regional Transmission System							
Vehicle Fleet Maintenance	2,384	0	0				
	2,384	0	0				
<b>Subtotal</b>							
<b>Machinery &amp; Equipment</b>					5,000		(5,000)
<b>Machinery &amp; Equipment</b>							
<b>Contract Services</b>							
Engineering Services - General	376	320	210	6,178	3,000	6,000	3,000
Contract Services/Gen Ops Expense	55,411	54,025	36,043	25,484	24,000	24,000	0
Legal Services	1,607	1,408	0	0	0	0	0
Accounting Services	3,300	3,211	3,744	3,067	4,000	4,000	0
Annual Audit							
Hydrogeologic Services							
Outside Lab Services - Drinking Water/ASR/EPA							
Rate Consulting Services							
Environmental Services							
Watershed Programs/Monitoring/Protection (HBMP, MFL, Stewardship)							
Charlotte Harbor NEP							
Information/Technology Services				10,703	12,000	12,000	0
Equipment Rental				3,118	7,000	7,000	0
Water Treatment Residual Handling	7,555	2,056	2,715				
AV-Giffin-Reserve-Land-Management							
Legislative Monitoring Services							
Uniforms							
Reservoir Permit Monitoring							
Reservoir Mitigation-Area-Management							
Off-Site-Facilities-Operation							
Water Quality/Training Facility Furnishings/AV Equipment							
Grounds-Maintenance							
<b>Subtotal</b>	68,248	61,020	42,713	48,550	50,000	53,000	3,000

**Peace River Manasota Regional Water Supply Authority  
FY 2018 BUDGET WORKSHEET**

**ADMINISTRATIVE  
EXPENDITURES**

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>General Administration</b>							
Bank Service Charges	86						
Training	1,500		525	0	4,000	4,000	0
Mileage/Travel Reimbursement	4,150	9,722	1,760	9,491	10,000	10,000	0
Professional Development/Cont. Education	2,575	747	2,272	2,019	4,500	4,500	0
Public Outreach/Education Programs/Website	40,175	0	20,918	50,841	40,000	40,000	0
Government Misc. Fees (permits, registrations, licenses, certifications, bank charges)		455	90	215	500	500	0
Office Rental	34,186	37,704	68,735	69,333	75,000	75,000	0
Office Maintenance	3,735	4,873	3,913	853	6,500	6,500	0
Advertising	1,125	1,741	1,176	4,124	2,500	3,500	1,000
Office Supplies	2,841	2,476	2,512	7,841	5,000	5,000	0
Postage	861	505	503	406	2,000	1,000	(1,000)
Books, Dues, Subs & Memberships	341	1,029	3,122	4,426	4,000	4,500	500
Office Equipment/Renovations		0	0				
Software		0	0				
General	350	0	0	0	2,500	2,500	0
		252					
<b>Total - Operations &amp; Maintenance</b>	<b>91,924</b>	<b>59,252</b>	<b>105,527</b>	<b>149,802</b>	<b>156,000</b>	<b>157,000</b>	<b>1,000</b>
	<b>496,742</b>	<b>489,372</b>	<b>568,400</b>	<b>624,920</b>	<b>666,500</b>	<b>685,300</b>	<b>17,800</b>

Peace River Manasota Regional Water Supply Authority  
 FY 2018 BUDGET WORKSHEET

**ADMINISTRATIVE EXPENDITURES**

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>NON-OPERATION &amp; MAINTENANCE</b>							
Annual Debt Service							
2005A Bond Series							
2005B Bond Series							
2010A Bond Series							
2010B Bond Series							
2014 Bonds Series							
2015 Bond Series							
Subtotal							
<b>County Payments</b>							
Capital Component							
DeSoto Payment							
North Port Payment to Charlotte							
Subtotal							
<b>Other Rate Related Expenditures</b>							
Contribution to Accumulating R&R Reserve							
Contribution to Cash Reserve (unrestricted Reserve)							
Contingencies				20,000	20,000	20,000	0
Water Purchase							
Debt Service Coverage Fund							
GIP Reimbursement [1991 Rebuild Project Assessment]							
Subtotal	496,742	568,400	20,000	644,920	686,500	705,300	17,800
<b>NON-RATE RELATED EXPENDITURES</b>							
Projects							
CIP Projects							
Renewal & Replacement Projects							
Resource/Supply Development Projects							
Subtotal							
<b>Fund Disbursements</b>							
Charlotte County							
DeSoto County							
Sarasota County							
North Port							
Project Saving Disbursement to Charlotte							
Subtotal	0	0	0	0	0	0	0
<b>Total Non-Rate Related Expenditures</b>	496,742	568,400	644,920	686,500	705,300	60,380	
<b>TOTAL EXPENDITURES</b>							

**FACILITIES EXPENDITURES**

**Peace River Manasota Regional Water Supply Authority  
FY 2018 BUDGET WORKSHEET**

**FACILITIES  
EXPENDITURES**

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>GENERAL OPERATIONS &amp; MAINTENANCE</b>							
<b>Insurances</b>							
Property/Liability/Workmen's Compensation		442,729	398,902	344,087	475,000	445,000	(30,000)
Public Officials Liability							
Auto	19,500	13,500	17,936	23,736	22,000	25,000	1,264
<b>Subtotal</b>	456,845	456,229	416,838	367,823	497,000	470,000	(28,736)
<b>Personnel Services</b>							
Maintenance	631,392	648,866	562,707				
Administrative	293,928	321,389	175,580	201,025	440,000	450,000	10,000
Operators	1,041,849	1,251,231	1,494,642	2,098,451	2,280,000	2,454,000	174,000
<b>Subtotal</b>	1,967,170	2,221,486	2,232,929	2,299,476	2,720,000	2,904,000	184,000
<b>Benefits Group</b>							
FICA Taxes	159,218	161,289	163,689	169,672	195,000	218,000	23,000
Fla. Retirement System	133,191	200,172	220,103	190,530	230,000	272,000	42,000
Health Insurance	505,184	559,729	648,326	680,247	945,000	992,300	47,300
<b>Subtotal</b>	797,593	921,191	1,032,117	1,040,449	1,370,000	1,482,300	112,300
<b>Utilities Group</b>							
Electric Power	1,492,634	1,528,096	1,547,063	1,485,509	2,050,000	2,337,000	287,000
Diesel Fuel	2,955	13,270	14,968	2,715	20,000	20,000	0
Vehicle Fuel	35,867	35,304	23,316	20,888	40,000	40,000	0
Telephone	18,945	22,302	22,408	39,514	35,000	35,000	0
<b>Subtotal</b>	1,550,401	1,598,971	1,607,755	1,548,626	2,145,000	2,432,000	287,000
<b>Operating Supplies</b>							
General Operations	29,167	22,359	40,334	42,549	40,000	50,000	10,000
Laboratory Supplies	40,745	42,549	36,838	52,223	85,000	75,000	(10,000)
<b>Subtotal</b>	69,912	64,908	77,172	94,772	125,000	125,000	0
<b>Water Treatment Chemicals</b>							
Aluminum Sulfate	1,454,890	1,263,061	1,219,068	1,235,981	1,616,200	1,650,100	33,900
Sodium Hydroxide	855,673	754,962	690,273	728,423	1,021,700	1,107,500	85,800
Carbon	1,433,797	1,438,616	1,733,240	1,176,237	1,750,000	1,820,000	70,000
Aqua Ammonia	64,671	63,365	65,740	60,445	87,200	90,700	3,500
Coagulant Aid	160,830	175,185	165,725	87,496	316,000	328,600	12,600
Copper Sulfate/Potassium Permanganate	49,812	22,086	17,736	0	91,500	102,500	11,000
Sodium Hypochlorite	435,808	397,333	366,508	353,501	627,000	652,100	25,100
<b>Subtotal</b>	4,455,483	4,114,608	4,258,289	3,642,082	5,509,600	5,751,500	241,900

**Peace River Manasota Regional Water Supply Authority  
FY 2018 BUDGET WORKSHEET**

**FACILITIES  
EXPENDITURES**

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>Repairs &amp; Maintenance</b>							
Water Treatment Facilities	489,050	681,812	543,266	682,253	594,100	697,500	103,400
Water Resources	491,455	567,342	669,503	496,405	513,300	538,000	24,700
Land Management				459,980	401,600	461,000	59,400
Regional Transmission System	183,656	147,115	52,351	36,991	81,700	76,000	(5,700)
Vehicle Fleet Maintenance	31,428	22,592	33,061	25,841	41,500	41,500	0
	1,195,590	1,418,860	1,298,180	1,701,469	1,632,200	1,814,000	181,800
<b>Subtotal</b>							
<b>Machinery &amp; Equipment</b>							
<b>Machinery &amp; Equipment</b>	4,486	99,655	215,642	241,302	293,500	277,500	(16,000)
<b>Contract Services</b>							
Engineering Services - General	176,173	277,242	251,237	141,150	300,000	265,000	(35,000)
Contract Services-Other	9,094	7,936	2,280	12,636	8,000	8,000	0
Legal Services	325,788	306,144	204,244	144,410	250,000	250,000	0
Accounting Services	6,927	5,632	0	0	0	0	0
Annual Audit	22,700	28,897	33,697	27,599	40,000	40,000	0
Hydrogeologic Services	151,388	141,190	123,817	163,081	200,000	200,000	0
Outside Lab Services - Drinking Water/ASR/EPA	111,414	111,354	105,334	134,449	85,000	100,000	15,000
Rate Consulting Services	23,340	46,593	4,830	11,593	30,000	30,000	0
Environmental Services	29,487	40,228	31,865	49,081	50,000	85,000	35,000
Watershed Programs/Monitoring//Protection [HBMP, HC Stewardship, MFL]	428,064	372,729	247,139	391,312	470,000	467,000	(3,000)
Charlotte Harbor NEP	3,500	3,500	3,500	3,750	3,500	3,500	0
Information/Technology Services	128,619	138,864	172,801	176,707	82,000	80,000	(2,000)
Equipment Rental	27,136	34,911	41,313	39,847	50,000	50,000	0
Water Treatment Residual Handling	196,780	198,804	189,221	217,586	225,000	249,800	24,800
AV-Effluen-Reserve-Land-Management	79,546	59,895	46,799	0	0	0	0
Legislative Monitoring Services	71,386	117,083	97,016	90,000	50,000	50,000	0
Uniforms	11,381	13,088	15,289	11,195	15,000	15,000	0
Reservoir Permit Monitoring	242,689	276,327	357,223	284,408	275,000	306,000	31,000
Reservoir-Mitigation-Area-Management	87,629	92,060	49,177	0	0	0	0
Off-Site Facilities Operation	41,672	25,980	20,298	20,343	0	0	0
Water Quality/Training Facility Furnishings/AV Equipment		165,833	66,335	66,335	0	0	0
Grounds-Maintenance	37,283	46,292	38,521	0	0	0	0
	2,211,995	2,345,748	2,201,434	1,985,483	2,133,500	2,199,300	65,800
<b>Subtotal</b>							

**Peace River Manasota Regional Water Supply Authority  
FY 2018 BUDGET WORKSHEET**

**FACILITIES  
EXPENDITURES**

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>General Administration</b>							
Bank Service Charges	47	1,900	4,250	4,500	0	0	0
Training	3,190	1,931	544	794	4,000	4,000	0
Mileage/Travel Reimbursement	20,160	17,601	18,759	18,378	20,000	20,000	0
Professional Development/Cont. Education	11,653	11,687	6,790	12,749	10,000	14,000	4,000
Public Outreach/Education Programs/Website	55,838	30,823	39,432	60,725	40,000	40,000	0
Government Misc. Fees (permits, registrations, licenses, certifications, bank charges)	8,554	241,435	24,508	8,853	35,000	35,000	0
Office Rental	97,305	96,855	74,173	69,333	75,000	75,000	0
Office Maintenance	228	1,534	0	0	2,000	2,000	0
Advertising	3,900	2,685	4,436	8,917	6,000	6,000	0
Office Supplies	16,787	15,907	18,289	20,166	25,000	25,000	0
Postage	5,961	4,043	10,659	8,076	7,500	8,000	500
Books, Dues, Subs & Memberships	16,699	13,146	14,623	13,477	15,000	15,000	0
Furniture and Fixtures	5,854	596	6,375	5,764	0	0	0
Software	6,583	4,016	9,239	12,841	25,000	25,000	0
Staffing/Policy Review	5,825	9,996	9,266	0	0	0	0
<b>Subtotal</b>	<b>258,584</b>	<b>454,005</b>	<b>240,342</b>	<b>244,571</b>	<b>264,500</b>	<b>269,000</b>	<b>4,500</b>
<b>Total - Operations &amp; Maintenance</b>	<b>12,968,059</b>	<b>13,695,663</b>	<b>13,580,700</b>	<b>13,166,053</b>	<b>16,690,300</b>	<b>17,724,600</b>	<b>1,032,564</b>

Peace River Manasota Regional Water Supply Authority  
 FY 2018 BUDGET WORKSHEET

**FACILITIES  
 EXPENDITURES**

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>NON-OPERATION &amp; MAINTENANCE</b>							
Annual Debt Service							
2005A-Bond Series	5,462,855	7,964,174	2,897,649				0
2005B-Bond Series	2,892,719			4,801			0
Bond Issuance Expense				2,483,411	591,300	591,300	0
2010A Bond Series	591,300	591,300	591,300		1,892,100	1,892,100	0
2010B Bond Series	1,892,111	1,892,111	1,892,111		4,536,300	4,536,300	(2,400)
2014 Bond Series			4,160,554	3,485,487	2,524,800	2,529,500	4,700
2015 Bonds Series				1,186,750	9,546,900	9,549,200	2,300
<b>Subtotal</b>	<b>10,449,985</b>	<b>10,447,585</b>	<b>9,451,584</b>	<b>7,155,648</b>			
County Payments							
Capital Component							
DeSoto Payment	1,971,557	1,971,557	1,971,557	1,971,557	1,971,557	1,971,557	0
North Port Payment to Charlotte	750,000	750,000	750,000	796,000	796,000	796,000	0
	4,781	4,781	4,781	4,781	4,781	4,781	0
<b>Subtotal</b>	<b>2,726,338</b>	<b>2,726,338</b>	<b>2,726,338</b>	<b>2,772,338</b>		<b>2,772,338</b>	<b>0</b>
<b>Other Rate Related Expenditures</b>							
Contribution to Accumulating R&R Reserve	1,200,000	1,200,000	2,000,000	2,000,000	2,000,000	2,000,000	0
Contribution to CIP							
Contingencies		0	0	0	500,000	500,000	0
Water Purchase		0	0	0	20,000	20,000	0
Debt Service Coverage Fund		0	0	1,331,317	1,345,290	1,345,635	345
CIP Reimbursement (1991-Rebuild-Project-Assessment)		0	0	0	0	0	0
<b>Subtotal</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>2,000,000</b>	<b>3,331,317</b>	<b>3,865,290</b>	<b>4,865,635</b>	<b>1,000,345</b>
<b>Total Rate Related Expenditures</b>	<b>27,944,382</b>	<b>28,069,586</b>	<b>27,758,622</b>	<b>26,425,356</b>	<b>32,874,828</b>	<b>34,911,773</b>	<b>2,035,209</b>
<b>NON-RATE RELATED EXPENDITURES</b>							
Projects							
CIP Projects							
Renewal & Replacement Projects	2,729,633	6,876,063	7,240,336	1,708,476	6,981,000	9,530,000	2,549,000
Resource/Supply Development Projects	1,445,371	1,412,664	1,213,291	2,438,933	1,943,000	2,819,000	876,000
	161,623	341,460	86,796	48,290	100,000	100,000	0
<b>Subtotal</b>	<b>4,336,627</b>	<b>8,630,187</b>	<b>8,540,422</b>	<b>4,195,699</b>	<b>9,024,000</b>	<b>12,449,000</b>	<b>3,425,000</b>
Fund Disbursements							
Charlotte County		300,379	300,418	261,659	268,910	268,771	(139)
DeSoto County		37,560	37,574	36,372	33,789	33,766	(23)
Sarasota County		766,854	975,490	885,887	889,308	889,308	(579)
North Port		138,394	161,472	147,946	153,590	153,446	(144)
Project Saving Disbursement to Charlotte		2,084,569		24,964			
		3,324,756	1,474,954	1,356,281	1,346,176	1,345,291	(885)
<b>Subtotal</b>	<b>4,336,627</b>	<b>11,954,943</b>	<b>10,015,376</b>	<b>5,551,980</b>	<b>10,370,176</b>	<b>13,794,291</b>	<b>3,424,115</b>
<b>Total Non-Rate Related Expenditures</b>							
<b>TOTAL EXPENDITURES</b>	<b>31,681,009</b>	<b>40,024,529</b>	<b>37,773,998</b>	<b>31,977,336</b>	<b>43,245,004</b>	<b>48,706,064</b>	<b>5,459,324</b>



**TOTAL ENTERPRISE EXPENDITURES**

**Peace River Manasota Regional Water Supply Authority  
FY 2018 BUDGET WORKSHEET**

**TOTAL ENTERPRISE FUND**

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc./Dec
<b>GENERAL OPERATIONS &amp; MAINTENANCE</b>							
<b>Insurances</b>							
Property/Liability/Workmen's Compensation	437,345	442,729	398,902	344,087	475,000	445,000	(30,000)
Public Officials Liability	6,000	6,000	5,718	5,917	6,000	6,000	
Auto	19,500	13,500	17,936	23,736	22,000	25,000	1,264
<b>Subtotal</b>	<b>462,845</b>	<b>462,229</b>	<b>422,556</b>	<b>373,740</b>	<b>503,000</b>	<b>476,000</b>	<b>(28,736)</b>
<b>Personnel Services</b>							
Maintenance	631,392	648,866	562,707	0	0	0	
Administrative	548,972	576,626	478,057	493,286	740,000	762,000	22,000
Operators	1,041,849	1,251,231	1,494,642	2,098,451	2,280,000	2,454,000	174,000
<b>Subtotal</b>	<b>2,222,213</b>	<b>2,476,723</b>	<b>2,535,406</b>	<b>2,591,737</b>	<b>3,020,000</b>	<b>3,216,000</b>	<b>196,000</b>
<b>Benefits Group</b>							
FICA Taxes	175,564	177,044	185,585	188,726	217,000	242,000	25,000
Fia. Retirement System	147,520	241,163	263,738	239,274	275,000	322,000	47,000
Health Insurance	536,508	602,770	688,025	731,660	1,010,000	1,060,600	50,600
<b>Subtotal</b>	<b>859,592</b>	<b>1,020,977</b>	<b>1,137,348</b>	<b>1,159,660</b>	<b>1,502,000</b>	<b>1,624,600</b>	<b>122,600</b>
<b>Utilities Group</b>							
Electric Power	1,496,723	1,531,741	1,550,502	1,489,071	2,055,000	2,342,000	287,000
Diesel Fuel	2,955	13,270	14,968	2,715	20,000	20,000	0
Vehicle Fuel	41,279	39,990	26,268	23,350	45,000	45,000	0
Telephone	1,550,401	1,598,971	1,607,755	1,548,626	2,145,000	2,432,000	287,000
<b>Subtotal</b>	<b>1,561,544</b>	<b>1,607,648</b>	<b>1,614,490</b>	<b>1,556,362</b>	<b>2,156,000</b>	<b>2,444,000</b>	<b>287,000</b>
<b>Operating Supplies</b>							
General Operations	29,167	22,359	40,334	42,549	43,500	50,000	6,500
Laboratory	40,745	42,549	36,838	52,223	85,000	75,000	(10,000)
<b>Subtotal</b>	<b>69,912</b>	<b>64,908</b>	<b>77,172</b>	<b>94,772</b>	<b>128,500</b>	<b>125,000</b>	<b>(3,500)</b>
<b>Water Treatment Chemicals</b>							
Aluminum Sulfate	1,454,890	1,263,061	1,219,068	1,235,981	1,616,200	1,650,100	33,900
Sodium Hydroxide	855,673	754,962	690,273	728,423	1,021,700	1,107,500	85,800
Carbon	1,433,797	1,438,616	1,733,240	1,176,237	1,750,000	1,820,000	70,000
Aqua Ammonia	64,671	63,365	65,740	60,445	87,200	90,700	3,500
Coagulant Aid	160,830	175,185	165,725	87,496	316,000	328,600	12,600
Copper Sulfate/Potassium Permanganate	49,812	22,086	17,736	0	91,500	102,500	11,000
Sodium Hypochlorite	435,808	397,333	366,508	353,501	627,000	652,100	25,100
<b>Subtotal</b>	<b>4,455,483</b>	<b>4,114,608</b>	<b>4,258,289</b>	<b>3,642,082</b>	<b>5,509,600</b>	<b>5,751,500</b>	<b>241,900</b>

Peace River Manasota Regional Water Supply Authority  
 FY 2018 BUDGET WORKSHEET

TOTAL ENTERPRISE FUND

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>Repairs &amp; Maintenance</b>							
Water Treatment Facilities	489,050	681,812	543,266	682,253	594,100	697,500	103,400
Water Resources	491,455	567,342	669,503	496,405	513,300	538,000	24,700
Land Management				459,980	401,600	461,000	59,400
Regional Transmission System	183,656	147,115	52,351	36,991	81,700	76,000	(5,700)
Vehicle Fleet Maintenance	33,812	22,592	33,061	27,284	44,500	44,500	0
<b>Subtotal</b>	<b>1,197,974</b>	<b>1,418,860</b>	<b>1,298,180</b>	<b>1,702,912</b>	<b>1,635,200</b>	<b>1,817,000</b>	<b>181,800</b>
<b>Machinery &amp; Equipment</b>							
<b>Machinery &amp; Equipment</b>	4,486	99,655	215,642	241,302	298,500	277,500	(21,000)
<b>Contract Services</b>							
Engineering Services - General							
Contract Labor	176,173	277,242	251,237	141,150	300,000	265,000	(35,000)
Legal Services	9,470	8,256	2,490	18,814	11,000	14,000	3,000
Accounting Services	381,198	360,170	240,287	169,894	274,000	274,000	0
Annual Audit	8,533	7,041	0	0	0	0	0
Hydrogeologic Services	26,000	32,108	37,441	30,666	44,000	44,000	0
Outside Lab Services - Drinking Water/ASR/EPA	151,388	141,190	123,817	163,081	200,000	200,000	0
Rate Consulting Services	111,414	111,354	105,334	134,449	85,000	100,000	15,000
Environmental Services	23,340	46,593	4,830	11,593	30,000	30,000	0
Watershed Programs/Monitoring/Protection [HBMP, HC Stewardship, MFL]	29,487	40,228	31,865	49,081	50,000	85,000	35,000
Charlotte Harbor NEP	428,064	372,729	247,139	391,312	470,000	467,000	(3,000)
Information/Technology Services	3,500	3,500	3,500	3,750	3,500	3,500	0
Equipment Rental	128,619	138,864	172,801	187,411	94,000	92,000	(2,000)
Water Treatment Residual Handling	34,691	36,967	44,028	42,966	57,000	57,000	0
PV-Giffen-Reserve-Land-Management	196,780	198,804	189,221	217,586	225,000	249,800	24,800
Legislative Monitoring Services	79,546	59,995	46,799	0	0	0	0
Uniforms	71,386	117,083	97,016	90,000	50,000	50,000	0
Reservoir Permit Monitoring	11,381	13,088	15,289	11,195	15,000	15,000	0
Reservoir Mitigation-Area-Management	242,689	276,327	357,223	284,408	275,000	306,000	31,000
Off-Site Facilities-Operation	87,629	92,060	49,177	0	0	0	0
Water Quality/Training Facility Furnishings/AV Equipment	44,672	25,980	20,298	20,243	0	0	0
Grounds-Maintenance	0	0	165,833	66,335	0	0	0
<b>Subtotal</b>	<b>37,283</b>	<b>46,292</b>	<b>2,244,147</b>	<b>2,034,033</b>	<b>2,183,500</b>	<b>2,252,300</b>	<b>68,800</b>
<b>Total</b>	<b>2,280,243</b>	<b>2,406,768</b>	<b>2,244,147</b>	<b>2,034,033</b>	<b>2,183,500</b>	<b>2,252,300</b>	<b>68,800</b>

Peace River Manasota Regional Water Supply Authority  
 FY 2018 BUDGET WORKSHEET

TOTAL ENTERPRISE FUND

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>General Administration</b>							
Bank Service Charges	133	1,900	4,250	4,500	0	0	0
Training	4,690	1,931	1,069	794	8,000	8,000	0
Mileage/Travel Reimbursement	24,310	27,323	20,520	27,869	30,000	30,000	0
Professional Development/Cont. Education	14,228	12,434	9,062	14,769	14,500	18,500	4,000
Public Outreach/Education Programs/Website	96,013	30,823	60,349	111,567	80,000	80,000	0
Government Misc. Fees (permits, registrations, licenses, certifications, bank charges)	8,554	241,890	24,598	9,068	35,000	35,500	500
Office Rental	131,491	134,560	142,908	138,665	150,000	150,000	0
Office Maintenance	3,963	6,407	3,913	853	8,500	8,500	0
Advertising	5,025	4,426	5,612	13,041	8,500	9,500	1,000
Office Supplies	19,628	18,382	20,801	28,007	30,000	30,000	0
Postage	6,822	4,548	11,163	8,482	9,500	9,000	(500)
Books, Dues, Subs & Memberships	17,040	14,175	17,745	17,902	19,000	19,500	500
Office Equipment/Renovations	5,854	536	6,375	5,764	0	0	0
Software	6,933	4,016	9,239	12,841	27,500	27,500	0
Staffing/Policy Review	5,825	9,966	5,266	252	0	0	0
Subtotal	350,508	513,257	345,869	394,373	420,500	426,000	5,500
<b>Total - Operations &amp; Maintenance</b>	<b>13,464,801</b>	<b>14,185,635</b>	<b>14,149,100</b>	<b>13,790,973</b>	<b>17,356,800</b>	<b>18,409,900</b>	<b>1,337,364</b>

Peace River Manasota Regional Water Supply Authority  
 FY 2018 BUDGET WORKSHEET

TOTAL ENTERPRISE FUND

	Actual Expended FY 2013	Actual Expended FY 2014	Actual Expended FY 2015	Actual Expended FY 2016	Current Budget FY 2017	Requested FY 2018	FY 2018 Budget Inc/(Dec)
<b>NON-OPERATION &amp; MAINTENANCE</b>							
Annual Debt Service							
2005A Bond Series	5,163,955	7,964,474	0	0	0	0	0
2005B Bond Series	3,802,749	0	3,807,649	0	0	0	0
Bond Issuance Expense				4,801			
2010A Bond Series	591,300	591,300	591,300	2,483,411	591,300	591,300	0
2010B Bond Series	1,892,111	1,892,111	1,892,111	0	1,892,100	1,892,100	0
2014 Bond Series	0	0	4,160,554	3,485,487	4,538,700	4,536,300	(2,400)
2015 Bonds Series	0	0	0	1,186,750	2,524,800	2,529,500	4,700
<b>Subtotal</b>	<b>10,449,985</b>	<b>10,447,585</b>	<b>9,451,584</b>	<b>7,155,648</b>	<b>9,546,900</b>	<b>9,549,200</b>	<b>2,300</b>
<b>County Payments</b>							
Capital Component							
DeSoto Payment	1,971,557	1,971,557	1,971,557	1,971,557	1,971,557	1,971,557	0
North Port Payment to Charlotte	750,000	750,000	750,000	796,000	796,000	796,000	0
	4,781	4,781	4,781	4,781	4,781	4,781	0
<b>Subtotal</b>	<b>2,726,338</b>	<b>2,726,338</b>	<b>2,726,338</b>	<b>2,772,338</b>	<b>2,772,338</b>	<b>2,772,338</b>	<b>0</b>
<b>Other Rate Related Expenditures</b>							
Contribution to Accumulating R&R Reserve							
Contribution to Cash Reserve (unrestricted Reserve)	1,200,000	1,200,000	2,000,000	2,000,000	2,000,000	2,000,000	0
Contingencies	0	0	0	0	0	4,999,999	1,000,000
Water Purchase	0	0	0	20,000	520,000	520,000	0
Debt Service Coverage Fund	0	0	0	0	20,000	20,000	0
CIP Reimbursement (1991 Rebuild Project Assessment)	0	0	0	1,331,317	1,345,290	1,345,635	345
<b>Subtotal</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>2,000,000</b>	<b>3,351,317</b>	<b>3,885,290</b>	<b>4,885,635</b>	<b>1,000,345</b>
<b>Total Rate Related Expenditures</b>	<b>27,841,124</b>	<b>28,069,586</b>	<b>28,327,022</b>	<b>27,070,276</b>	<b>33,561,328</b>	<b>35,617,073</b>	<b>2,340,009</b>
<b>NON-RATE RELATED EXPENDITURES</b>							
Projects							
CIP Projects							
Renewal & Replacement Projects	2,729,633	6,876,063	7,240,336	1,708,476	6,981,000	9,530,000	2,549,000
Resource/Supply Development Projects	1,445,371	1,412,664	1,213,291	2,438,933	1,943,000	2,819,000	876,000
	161,623	341,460	86,796	48,290	100,000	100,000	0
<b>Subtotal</b>	<b>4,336,627</b>	<b>8,630,187</b>	<b>8,540,422</b>	<b>4,195,699</b>	<b>9,024,000</b>	<b>12,449,000</b>	<b>3,425,000</b>
Fund Disbursements							
Charlotte County	0	300,379	300,418	261,659	268,910	268,771	(139)
DeSoto County	0	37,560	37,574	36,372	33,789	33,766	(23)
Sarasota County	0	766,854	975,490	885,340	889,887	889,308	(579)
North Port	0	138,394	161,472	147,946	153,590	153,446	(144)
Project Saving Disbursement to Charlotte	0	2,094,569	0	24,964	0	0	0
<b>Subtotal</b>	<b>0</b>	<b>3,324,756</b>	<b>1,474,954</b>	<b>1,356,281</b>	<b>1,346,176</b>	<b>1,345,291</b>	<b>(885)</b>
<b>Total Non-Rate Related Expenditures</b>	<b>4,336,627</b>	<b>11,954,943</b>	<b>10,015,376</b>	<b>5,551,980</b>	<b>10,370,176</b>	<b>13,794,291</b>	<b>3,424,115</b>
<b>TOTAL EXPENDITURES</b>	<b>32,177,751</b>	<b>40,024,529</b>	<b>38,342,398</b>	<b>32,622,255</b>	<b>43,931,504</b>	<b>49,411,364</b>	<b>5,764,124</b>

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**TENTATIVE BUDGET**  
**ITEM 2**

**Resolution 2017-01 'Resolution Setting Forth Preliminary  
Schedules of Rates, Fees and Charges for FY 2018**

---

**Presenter -**

Patrick Lehman, Executive Director

**Recommended Action -**

**Motion** to approve Resolution 2017-01 'Resolution Setting Forth Preliminary Schedules of Rates, Fees and Charges for FY 2018'.

Resolution 2017-01 formalizes the Board's adoption of the Tentative Budget for FY 2018, establishes its intent to set rates based upon the tentative budget. A public hearing will be scheduled at which time the Board will adopt the final budget during a regularly scheduled meeting prior to August 15, 2017.

**Attachments:**

Resolution 2017-01 'Resolution Setting Forth Preliminary Schedules of Rates, Fees and Charges for FY 2018'

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**

**Resolution 2017-01**

**RESOLUTION SETTING FORTH PRELIMINARY SCHEDULES  
OF RATES, FEES AND CHARGES FOR FY 2018**

The Peace River Manasota Regional Water Supply Authority, created pursuant to Chapter 373.1962, Florida Statutes, now found in Section 373.713, Florida Statutes, and Interlocal agreement pursuant to Chapter 163.01, Florida Statutes, in lawful session and in regular order of business properly presented, finds that:

**WHEREAS**, the Second Amended Interlocal Agreement Creating the Peace River Manasota Regional Water Supply Authority entered into on October 5, 2005 provides that:

*'The Authority shall establish a tentative budget no later than May 15, for the ensuing Contract Year. The tentative budget shall include all anticipated expenditures of the Authority for its projects and activities for the ensuing Contract Year, including Operating and Maintenance Cost, Management and Planning Costs, and Debt Service Cost. As part of the budget process, the Authority shall adopt rates, fees, and charges to generate sufficient revenue to pay all budgeted expenditures on a water user basis for Authority Water Supply Facilities. Membership fees and rates shall be established annually and adopted by resolution at the time of budget adoption.'* and

**WHEREAS**, the Authority has entered into the Peace River Manasota Regional Water Supply Authority Master Water Supply Contract with Charlotte County, DeSoto County, Manatee County, Sarasota County, and with the City of North Port on October 5, 2005 (as amended August 5, 2015) for the purpose of supplying water produced by the Authority from the Peace River Facility and new water supply sources; and

**WHEREAS**, the Master Water Supply Contract provides that:

*'In conjunction with the Authority's annual budget development and adoption process, the Authority shall fix a Water Rate consisting of the Base Rate Charge (adjusted as necessary for customer financing), DeSoto Payment, and Water Use Charge to be paid on a monthly basis by the Customers for water furnished by the Authority. The rates are not subject to the supervision or regulation by any other commission, board, bureau, agency or other political subdivision or agency of the county or state.'* and

**WHEREAS**, the Authority Board of Directors adopted the Tentative Budget for FY 2018 at their regularly scheduled meeting on April 12, 2017.

**NOW, THEREFORE, BE IT RESOLVED:**

Section 1. The Peace River Manasota Regional Water Supply Authority does hereby set forth preliminary schedules establishing rates, fees and charges for the period beginning October 1, 2017 through September 30, 2018 attached hereto as Exhibit A.

Section 2. Conservation Charge for Exceedance - In the event a customer should receive delivery of water in excess of their respective water allocation (as adjusted by New Water Supply Demand and/or Redistribution Pool) provided in the Master Water Supply Contract for the period beginning October 1, 2017 through September 30, 2018, the exceeding customer shall pay an additional charge, Conservation

Charge for Exceedance, derived as follows unless the exceedance is the result of an emergency transfer as determined by the Authority Board, in which case no additional charge shall be placed upon the excess water usage occasioned by the emergency.

Conservation Charge for Exceedance = [Conservation Base Rate Charge] + [Conservation Water Use Rate Charge]

Conservation Base Rate Charge = 2.0 x [Exceeding customer's base rate charge] x [the percent of water delivered in excess of their water allocation]

Conservation Water Use Rate Charge = 2.0 x [Water Use Rate charge per 1,000 gallons] x [times actual water delivered in excess of exceeding customer's water allocation]

The additional revenue received from such exceedance will, at the discretion of the Authority Board, be applied as a credit toward the obligations of the other Customers apportioned according to each of their annual water allocations. Delivery of water shall be as recorded by the Authority's meters at the points of connection between the Authority transmission system and the distribution system of the customer.

Done at Arcadia, Florida this Twelfth day of April 2017.

Attest:

**Peace River Manasota**  
Regional Water Supply Authority

\_\_\_\_\_  
Patrick J. Lehman  
Executive Director

\_\_\_\_\_  
Commissioner Alan Maio  
Chairman

Approved as to Form:

\_\_\_\_\_  
Douglas Manson  
General Counsel for the Peace River Manasota  
Regional Water Supply Authority



Peace River Manasota Regional Water Supply Authority  
 FY 2018 Tentative Budget

**WATER RATE [Authority Customers]**  
 10/01/2017 to 09/30/2018

Total Monthly Water Charge to Customers [Charge per Month]		Monthly Charge = Base Rate Charge + (Water Use Charge x Actual Water Delivered)
<b>Base Rate Charge</b> [Annual costs to be allocated]		Totals
Non-Capital Cost Component	9,386,300	
Fixed O & M Cost Component	2,000,000	
Contribution to R & R Reserve	1,000,000	
Transfer to CIP	500,000	
Contingencies	(40,000)	
Projected Interest Earned	(2,100,000)	
Funds Brought Forward	10,746,300	
<b>Sub-Total Non-Capital Cost Component</b>		
Water Purchase	20,000	
<b>Total Non-Capital Cost Component</b>	\$10,766,300	
<b>Debt Service Cost</b>		
2010A Bonds	591,300	
2010B Bonds	1,892,100	
2014 Bonds	4,536,300	
2015 Bonds	2,529,500	
<b>Total Debt Service</b>	\$9,549,200	
<b>Debt Service Coverage Payments</b>	\$1,345,635	
<b>Debt Service Contributions</b>		
Federal Direct Payment [2010B Bonds]	(\$578,300)	
<b>County Payments</b>		
Capital Component Charge	1,971,557	
DeSoto Payment	796,000	
North Port Payment to Charlotte	4,781	
<b>Total County Payments</b>	\$2,772,338	
<b>Total Base Rate Charge</b>	\$23,855,173	

**Peace River Manasota Regional Water Supply Authority  
FY 2018 Tentative Budget**

Annual Base Rate Charge By Customer		Non-Capital Cost Component	2010A Bonds	2010B Bonds	2014 Bonds	2015 Bonds	Debt Service Coverage Payment	Federal Subsidy 2010B Bonds	Capital Component Charge	DeSoto Payment	North Port Payment to Charlotte
Charlotte County	9,193,215	4,995,315	0	0	1,191,373	600,917	268,843	0	1,767,501	369,266	0
DeSoto County	492,429	209,431	6,563	0	37,202	181,657	33,813	0	8,281	15,482	0
Sarasota County	11,838,212	4,672,636	501,363	1,216,431	2,837,534	1,746,926	889,570	(374,789)	0	345,541	0
City of North Port	2,331,317	888,918	83,373	675,669	470,192	0	153,408	(206,511)	195,776	65,711	0
<b>Total</b>	<b>\$23,855,173</b>	<b>\$10,766,300</b>	<b>\$591,300</b>	<b>\$1,892,100</b>	<b>\$4,536,300</b>	<b>\$2,529,500</b>	<b>\$1,345,635</b>	<b>(\$578,300)</b>	<b>\$1,971,557</b>	<b>\$796,000</b>	<b>\$4,781</b>
<b>Monthly Base Rate Charge By Customer</b>											
Charlotte County	766,101										
DeSoto County	41,036										
Sarasota County	986,518										
City of North Port	194,276										
<b>Total</b>	<b>\$1,987,931</b>										
<b>Master Water Supply Contract Water Allocation</b>											
<b>Million Gallons Per Day [MGD]</b>											
	Annual Average Daily [MGD]										
Charlotte County	16.100										
DeSoto County	0.675										
Sarasota County	15.060										
City of North Port	2.865										
<b>Total</b>	<b>34.700</b>										

<b>Water Use Charge</b>	
[Charge per 1,000 gallons]	
Water Use Rate Charge	Total \$0.74

Peace River Manasota Regional Water Supply Authority  
 FY 2018 Tentative Budget

REDISTRIBUTION POOL  
 10/01/2017 to 09/30/2018

Redistribution Pool Water Quantities						
	(1) Water Allocation [MGD]	(2) New Water Supply [MGD]	Total Contracted Allocation [MGD]	(3) Available for Pool [MGD]	Requested from Pool [MGD]	(4) Budget Allocation [MGD]
Charlotte County	16.100	0.000	16.100	2.500	0.000	16.100
DeSoto County	0.675	0.000	0.675	0.000	0.000	0.675
Sarasota County	15.060	0.000	15.060	4.900	0.000	15.060
City of North Port	2.865	0.000	2.865	0.500	0.000	2.865
<b>Total</b>	<b>34.700</b>	<b>0.000</b>	<b>34.700</b>	<b>7.900</b>	<b>0.000</b>	<b>34.700</b>

Redistribution Pool Water Base Rate Charge Adjustment		
	Annual Cost [\$ /Year]	Annual Unit Cost [\$/MGD]
Peace River Facility REP Debt Service	5,127,600	348,816
Non-Capital Component	10,766,300	310,268
DeSoto Payment	796,000	22,939
<b>Redistribution Pool Water Base Rate</b>		<b>\$682,024</b>

- (1) Peace River/Manasota Regional Water Supply Authority Master Water Supply Contract - Exhibit B 'Water Allocations' (Peace River Facility water allocations).
- (2) Peace River/Manasota Regional Water Supply Authority Master Water Supply Contract - Exhibit C 'New Water Supply Demands'.
- (3) Pool water based on Customer submittals (January 2017).
- (4) Total annual average water allocated for FY 2018 budget.

Redistribution Pool Base Rate Charge Adjustment by Customer				
	Annual Base Rate Adjustment		Monthly Base Rate Adjustment	
	To Pool	From Pool	To Pool	From Pool
Charlotte County	0	0	0	0
DeSoto County	0	0	0	0
Sarasota County	0	0	0	0
City of North Port	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Peace River Manasota Regional Water Supply Authority  
 FY 2018 Tentative Budget

**INTERCONNECT WATER CHARGE [GOVERNMENT RATE]**  
 10/01/2017 to 09/30/2018

Water Charge to Municipalities Interconnected to Regional Transmission System [Charge per 1,000 Gallons]	
Water Rate [Charge per 1,000 Gallons]	
	Water Rate Charge in \$/1,000 gallons metered water delivery for cumulative delivery to all interconnects up to quantity identified as 'Available from Pool' in the Redistribution Pool for the current fiscal year.
\$3.30	Water Rate Charge in \$/1,000 gallons metered water delivery for cumulative delivery to all interconnects in excess of the quantity identified as 'Available from Pool' in the Redistribution Pool for the current fiscal year.
\$6.60	

Revenue received from these water sales will, at the discretion of the Authority Board, be applied as a credit toward the obligations of the Authority Customers apportioned to each of their allocations to the 'Available from Pool' in the Redistribution Pool for the current fiscal year. Water rate for emergency use unless Interlocal Agreement provides alternative water rate.

**Peace River Manasota Regional Water Supply Authority  
FY 2018 Tentative Budget**

**CUSTOMER PLANNING ASSESSMENT  
10/01/2017 to 09/30/2018**

Planning Assessments [Annual costs to be allocated]	Distribution (1)			
	Total	Water Advocacy/One Water Initiative	Strategic Plan Implementation	Peace River Basin Issues
Charlotte County	10,586	3,529	5,293	1,764
DeSoto County	2,045	682	1,022	341
Manatee County	22,367	7,456	11,183	3,728
Sarasota County	24,330	8,334	12,501	3,495
City of North Port	672	0	0	672
<b>Total</b>	<b>\$60,000</b>	<b>\$20,000</b>	<b>\$30,000</b>	<b>\$10,000</b>

(1) Reserve Fund Assessments will be invoiced on October 1, 2016.

Water Allocation [Million Gallons Per Year]	Water Allocation [MGD]	Water Allocation [Percentage]
Charlotte County	16.100	46.4%
DeSoto County	0.675	1.9%
Manatee County	0.000	0.0%
Sarasota County	15.060	43.4%
City of North Port	2.865	8.3%
<b>Total</b>	<b>34.700</b>	<b>100.0%</b>

Population	Population	Population [Percentage]
Charlotte County	169,152	17.64%
DeSoto County	32,676	3.41%
Manatee County	357,404	37.28%
Sarasota County	335,060	34.95%
City of North Port	64,472	6.72%
<b>Total</b>	<b>958,764</b>	<b>100.00%</b>

Peace River Manasota Regional Water Supply Authority  
 FY 2018 Tentative Budget

MEMBER FEE  
 10/01/2017 to 09/30/2018

Contribution Amount to be Derived		Totals
Administrative Office Authority Support		\$705,300
Projected Interest Earned		\$0
Estimated Brought Forward - Undesignated		(\$350,000)
Amount to be Derived		\$355,300

Population Basis	*Population 4/1/2016	% of Total Population
Charlotte County	169,152	17.64%
DeSoto County	32,676	3.41%
Manatee County	357,404	37.28%
Sarasota County	399,532	41.67%
Total	958,764	100.00%

Weighted Contribution	Base Contribution	Pro Rated Share
Charlotte County	\$44,413	\$31,342
DeSoto County	\$44,413	\$6,055
Manatee County	\$44,413	\$66,224
Sarasota County	\$44,413	\$74,030
Total Weighted Contribution		\$355,300

Member Contribution Formula:  
 Base Contribution = 1/2 amount to be derived divided by 4  
 Pro rated share = 1/2 amount to be derived times % of Population

\* Source: 'Estimates o Population by County and City in Florida [Bureau of Economic and Business Research; University of Florida, April 1, 2016]

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**CONSENT AGENDA**  
**ITEM 1**

**Minutes of February 1, 2017 Board of Directors Meeting**

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**Recommended Action -**

**Motion** to approve minutes of February 1, 2017 Board of Directors meeting.

Draft minutes of the February 1, 2017 Board of Directors meeting are provided for Board approval.

**Attachments:**

Draft Minutes of February 1, 2017 Board of Directors Meeting

Minutes of Board of Directors Meeting  
**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
Peace River Facility  
Water Quality & Training Facility  
8998 SW County Road 769 (Kings Highway), Arcadia, Florida

February 1, 2017

***Board Members Present:***

Commissioner Christopher G. Constance, Charlotte County, Chairman  
Commissioner Alan Maio, Sarasota County, Vice Chairman  
Commissioner Elton A. Langford, DeSoto County  
Commissioner Betsy Benac, Manatee County

***Staff Present:***

Patrick Lehman, Executive Director  
Doug Manson, General Counsel  
Mike Coates, Deputy Director  
Kevin Morris, Science and Technology Officer  
Richard Anderson, System Operations Manager  
Ann Lee, Finance/Administration Manager  
Ford Ritz, Project Engineer  
Jessica Benson, Agency Clerk

***Others Present:***

A list of others present who signed the attendance roster for this meeting is filed with the permanent records of the Authority. Commissioner Constance recognized Charlotte County Commissioner Ken Doherty, North Port Commissioner Debbie McDowell, Charlotte County Assistant Administrator Hector Flores, and Sarasota County Assistant Administrator Jonathan Evans.

**CALL TO ORDER**

**INVOCATION**

**PLEDGE OF ALLEGIANCE**

Led by the Board

Commissioner Constance expressed his appreciation of the recent Water Forum hosted by the Authority and the recognition of the Authority as a leader in the state.

**PUBLIC COMMENTS**

There were no public comments.

**ELECTION OF OFFICERS**

Doug Manson, General Counsel, conducted the election of officers and opened the floor for nominations.

**Commissioner Langford nominated Commissioner Maio for Chairman. Commissioner Constance seconded the nomination and move to close nominations. Motion was approved unanimously.**



**Nomination of Commissioner Maio for Chairman was approved unanimously.**

**Commissioner Constance nominated Commissioner Langford for Vice-Chairman. Commissioner Benac seconded the nomination and move to close nominations. Motion was approved unanimously.**

**Nomination of Commissioner Langford for Vice-Chairman was approved unanimously.**

Commissioner Maio was passed the gavel assumed the Chairman position.

**CONSENT AGENDA**

1. **Minutes of December 7, 2016 Board of Directors Meeting**
2. **Year-End Financial Status and Semi-Annual Investment Reports for FY 2016**
  - a. **Receive and File Year-End Financial Status Report for FY 2016**
  - b. **Receive and File 'Semi-Annual Investment Report' [September 30, 2106]**
3. **Property Insurance Renewal for Authority Facilities**
4. **Administrative Office Lease Renewal [REMOVED FOR DISCUSSION]**
5. **Settlement Agreement and General Release (PRMRWSA and former employee)**
6. **Letter of Appreciation to Michael Moran for Service on the SWFWMD Governing Board**

**Motion was made by Commissioner Langford, seconded by Commissioner Constance, to approve the Consent Agenda, with the exception of Items 4. Motion was approved unanimously.**

Commissioner Constance asked to pull Item 4 for further discussion. Commissioner Constance wanted to understand the need for 7,500 sq. ft. of the Authority's office space. He said most of the space is used for storage and there were office rarely occupied such as the office designated for Legal Counsel.

Mr. Lehman clarified none of the administrative staff is located in the water treatment facilities and added that operations and administration buildings were in different location for all member counties. Mr. Lehman said the Authority downsized the Administrative Office space five years ago. The office is centrally located to the four counties and SWFWMD offices. The need for the space houses ten employees in the administrative office, records retention (per statue requirements), engineering files and work area and conference/meeting rooms.

Commissioner Constance asked how often the Authority accessed the records.

Mr. Lehman said employees could find specific information for future projects any time and he accessed the records to provide the board with this information regarding the lease and office space.

Commissioner Constance said he had an issue with the material presented. The market study only included office comparisons with the same square footage as the current office and there was not an option of a smaller space. He suggested 2,500 sq. ft. office space and store record in another location. Commissioner Constance asked how often legal counsel used the office.

Mr. Mason said his staff went on an average of once a week.

Commissioner Benac asked if the records were being digitized or if there were plans to do so.

Commissioner Constance said to lease a smaller office and start digitizing right now. He suggested to postpone this item to next board meeting and try to get a better look and provide information for a smaller office in the same location.

Mr. Maio asked about going to month by month rent until a decision was made.

Commissioner Langford stated he understood the need of a safe place to keep records and to have access to it right away. He added if it had been working the way it was, there was no need to change. Commissioner Langford was in favor to renew the lease.

Commissioner Constance said he is more interested in digitizing than relocating, expressing that 5 year lease is too long and perhaps a 2 to 3 year lease would be more appropriate.

Commissioner Benac said she didn't have enough information to make a decision and asked if a delay would jeopardize anything.

Ann Lee said the next board meeting was going to be April 12 and the rent would be 50% more in April as per the lease if not renewed. She added the Authority was looking into digitizing in the future. She had to look at the cost of digitizing all the records, cost of the servers, the space, and that process won't be within 1 month. She explained that some files cannot be digitized and it would take couple of years to digitize everything.

Commissioner Maio stated there were unanswered questions and called the question to move the item to the April 12 Board meeting.

**Motion was made by Commissioner Constance, seconded by Commissioner Benac, to move Consent Item 4 to next board meeting April 12, 2017. Motion was approved 3 to 1 with Commissioner Langford dissenting.**

Commissioner Maio omitted item 6 from the Consent Agenda and asked for a motion.

**Motion was made by Commissioner Constance, seconded by Commissioner Langford, to approve Consent Item 6. Motion was approved unanimously.**

**REGULAR AGENDA**

**1. Water Supply Conditions – Staff Presentation**

Richard Anderson presented Water Supply Conditions at the Peace River Facility as of January 18, 2017.

- Water Supply Quantity: Excellent
- Treated Water Quality: Excellent

January Water Demand	28.11 MGD
January River Withdrawals	5.51 MGD

<u>Storage Volume:</u>	
Reservoirs	5.36 BG
ASR	<u>6.72 BG</u>
Total	12.08 BG

Rainfall in the Peace River basin has continued to decline since September as well as the river flow. River withdrawal this period was 6.8 MGD in December and 5.5 MGD in January. Surface water storage is at 5.0 BG and there is 6.7 BG in the ASR system. Water quality and water quantity is excellent.

Commissioner Constance asked if the Authority could get the maximum capacity and if there was ever sufficient flow on the river to reach the 120 MGD capacity. Commissioner Constance also asked if the Authority had the pump capacity for that quantity.

Mr. Anderson said the Authority had the capability to reach the maximum capacity if the flows were in the river. In the last couple of years there was not a need to run the pumps to the maximum capacity because the reservoirs were full much of the time and the Authority was able to optimize access to the river flows.

Commissioner Benac asked if the water from ASR system was mixed with the reservoirs to blend and then sent to the treatment plant. She also asked if this process was for quality and quantity purposes.

Mr. Anderson said it was for both purposes the water is blended.

Commissioner Constance asked from an engineered point of view, if it was better to keep the reservoir full all the time.

Mr. Anderson said it was designed to be full for 100 years and there were not going to be any issues if the reservoir was full all the time.

Commissioner Maio pointed out the total storage 11.75 BG was less than last meeting.

For the region, Mr. Anderson said the Authority and its customers maintain close to 105 MGD of finished water. For the month of December, the Authority produced about 28.4 MGD and the member utilities produced 44.7 MGD for a total regional use of 63.5 MGD which is about 66% of the region's capacity.

Mr. Anderson reviewed the current demand and supply conditions for each of the members/customers for the month of October including their twelve-month rolling average and historical annual average usage. Authority members continue to account for about 70% of the region's demand.

Commissioner Benac asked for clarification on deliveries from Manatee County to Sarasota County is shown.

Mr. Anderson pointed out the transfers on the respective slides between the utilities.

**2. 'Peace River Manasota Regional Water Supply Authority FY 2016 Financial Statements and Independent Audit Report'**

Ms. Ann Lee introduced Tiffany Mangold from the firm of Purvis Gray & Company to go over Authority FY 2016 Financial Statements and Independent Audit Report.

Ms. Mangold said the annual audit of the Authority's financial records for the fiscal was completed for the year ending September 30, 2016. There were no matters involving the internal control over financial reporting or significant deficiencies in operation noted in the audit that would be considered a material weakness. Ms. Mangold explained depreciation to the board which is required to get a better understanding of the financial status and said the Authority is a financially sound organization.

It was recommended to the Board to receive and file the audited financial statements of the Authority for period ending September 30, 2016, pending the changes related to GASB 68.

**Motion was made by Commissioner Constance, seconded by Commissioner Langford, to received and file 'Peace River Manasota Regional Water Supply Authority FY 2016 Financial Statement and Independent Audit Report' as submitted by Purvis Gray & Company, pending the changes related to GASB 68. Motion was approved unanimously.**

**3. Regional Integrated Loop System Phase 1 Interconnect Project [U.S. 17 to Punta Gorda]**

- a. Phase 1 Interconnect Project Update
- b. Basis of Design Report – Receive and File
- c. Work Order No. 2 'Phase 1 Interconnect Final Design, Permitting and Bid Phase Services' with King Engineering Associates, Inc.

This item was presented by Ford Ritz. The project consists of installation of approximately 6.3 miles of 24-inch diameter regional transmission main connecting the Authority's DeSoto Regional Transmission pipeline on U.S. 17 near the Walmart Distribution Center, with the City of Punta Gorda Shell Creek Water Treatment Facility in Charlotte County.

Mr. Ritz said King Engineering completed Work Order No. 1 (Preliminary Engineering) for the Phase 1 Interconnect Project and the resulting Basis of Design Report (BODR) was discussed with the Board meeting on December 7, 2016. The BODR included a recommended pipeline route, establishes project requirements (facility capacities, pipe sizes, etc.) and also included the Engineers Opinion of Probable Cost for the project of \$11,960,000 which is in line with the Project budget of \$12,000,000. Estimated Project completion is February 2020.

Mr. Ritz presented Work Order No. 2 for Final Design and Permitting Services for the Phase 1 Project. In conjunction with design and permitting efforts, surveying, corrosion control recommendations, geotechnical work, underground utility coordination, assistance in easement acquisition, and bidding services were also included. Proposed budget for the work is \$1,079,693 which includes \$25,000 owner's allowance for out-of-scope work as authorized by the Executive Director. Mr. Ritz said the timeframe for completion is 23 months.

Commissioner Constance asked where the permits were from.

Mr. Ritz said FDEP for the ERP, USACOE for environmental, State and Local ROW, and FDEP for Potable Water System Construction.

Commissioner Constance asked if this Work Order No. 2 was a not to exceed contract.

Mr. Ritz said it was.

Commissioner Benac asked Mr. Ritz if he knew the latest cost trends for the construction industry.

Mr. Ritz said that the engineers cost estimate for the project had been reviewed with a national contractor who performs this type of utility work and had been verified by the contractor as reasonable.

**Motion was made by Commissioner Benac seconded by Commissioner Constance, to receive and file 'Regional Integrated Loop System Phase 1 Basis of Design Report'. Motion was approved unanimously.**

**Motion was made by Commissioner Benac seconded by Commissioner Langford, to approve and authorize Executive Director to execute Work Order No. 2 'Phase 1 Interconnect Final Design, Permitting and Bid Phase Services' to King Engineering Associates, Inc., for an amount not to exceed \$1,079,693. Motion was approved unanimously.**

4. **Regional Integrated Loop System Phase 3B Interconnect Project [SR 681 to Clark Road]**
  - a. **Phase 3B Interconnect Project Update**
  - b. **Basis of Design Report – Receive and File**
  - c. **Work Order No. 2 'Phase 3B Interconnect Final Design, Permitting and Bid Phase Services' with King Engineering Associates, Inc.**

Kevin Morris presented this project which would install approximately 5 miles of 48-inch diameter regional transmission main extending the regional transmission system north from the Preymore Interconnect near the Sarasota County Municipal Solid Waste Facility to SR 72 (Clark Road).

Mr. Morris said King Engineering completed Work Order No. 1 (Preliminary Engineering) for the Phase 3B Interconnect Project and the resulting Basis of Design Report (BODR) for the pipeline portion of the project. The draft BODR recommended a pipeline route and establishes project requirements (facility capacities, pipe sizes, environmental permitting, land requirements, etc.). It also included the Engineers Opinion of Probable Cost for the pipeline portion of the project of \$16.4 million.

King Engineering also recommended including a regional pumping station near the intersection of Fruitville and Lorraine Rd. as part of the project. Mr. Kuzler of King Engineering explained he developed several conceptual plan sites to determine how much land was needed for the pump station. Ten vacant land properties were located in the desired area. He also added, until the pump station site is bought, they could not complete final design.

Commissioner Constance asked if properties were for sale.

Mr. Kuzler said he did not know.

Mr. Morris said this pipeline was funded by Sarasota County through their 'project savings fund', state

funds and SWFWMD grant funds.

Commissioner Benac asked for an explanation on Sarasota project savings funds.

Mr. Lehman said Sarasota saved money from previous projects, funds that there were not utilized. These funds are retained by the Authority and available for this pipeline project.

Work Order No. 2 includes Final Design and Permitting Services for the Phase 3B Pipeline and preliminary engineering for a regional Pump Station near the intersection of Fruitville and Lorraine Roads. In addition, work includes surveying, corrosion control, geotechnical work, utility coordination, and bidding services, and Preliminary Design of a Regional pumping station. The proposed budget is \$1,090,391 and includes \$50,000 Owner's Allowance for any unforeseen out-of-scope work. The timeframe for completion of this work is 23 months.

Commissioner Benac asked Mr. Morris if any kind of coordination was done with the county because Lorain road was under construction.

Mr. Morris said yes.

Commissioner Maio stated his vote would be contingent on the Sarasota BOCC approving the transfer of Project Savings for this work and to incorporate that into the motion. He also suggested looking for the piece of land for the pump station sooner than later.

Commissioner Constance suggested that the process of identifying the piece of property be accelerated in order to purchase it faster.

**Motion was made by Commissioner Constance, seconded by Commissioner Langford, to receive and file draft 'Regional Integrated Loop System Phase 3B Interconnect Basis of Design Report'. Motion was approved unanimously**

**Motion was made by Commissioner Constance, seconded by Commissioner Langford, to approve and authorize Executive Director to execute Work Order No. 2 'Phase 3B Interconnect Final Design, Permitting and Bid Phase Services' to King Engineering Associates, Inc., for an amount not to exceed \$1,090,391 pending approval of Sarasota Project Savings funds. Motion was approved unanimously**

**Motion was made by Commissioner Constance, seconded by Commissioner Langford, to accelerate the process of land acquisition for the pump station. Motion was approved unanimously**

## **5. Strategic Plan Implementation Process**

Mr. Shearer presented the draft strategic plan goals and objectives. Mr. Shearer presented alternate revisions to the Authority's vision based on comment received at the previous Board meeting. The Board opted for Option 1: *'Through cooperation and collaboration the Authority and its members shall create, maintain and expand a sustainable, interconnected regional water supply system.'*

**Motion was made by Commissioner Constance, seconded by Commissioner Langford, to approve Option 1. Motion was approved unanimously**

### **Peace River Facility Water Use Permit Modification/Renewal**

Mike Coates explained that the conditions and limits that governed withdrawals from the Peace River were established in a Water Use Permit (WUP) issued to the Authority by the Southwest Florida Water Management District. The WUP authorized a “withdrawal schedule” based on flow conditions in the river at three U.S. Geological Survey gauges upstream of the Peace River Facility. When combined flow at the three upstream gages reaches the WUP trigger level the Authority is allowed to begin harvesting water at a specified percentage of the combined flow from the three upstream gauges.

Commissioner Constance asked for an explanation of the capacity shown on the front of the permit vs the facility capacity.

Mr. Coates explained the Authority is limited by the WUP to pulling a maximum of 120 MGD which is shown on the face of the permit from the river depending on flow conditions upstream, and water pumped from the river is sent to the off-stream reservoir system. The 34.8 MGD quantity identified as the annual average day the face of the permit is the average daily amount of finished water that the Peace River Facility is allowed to deliver to its Customers. The Peace River Facility treatment capacity of 51 MGD, which is not shown on the WUP is the maximum amount of water that the plant can produce according to the drinking water facility operating permit the Authority has with the FDEP.

Commissioner Benac asked about the 105 MGD of total regional treatment capacity and who owned that capacity. Mr. Coates said the 105 MGD represents the average day treatment capacity of the Authority and Customers facilities. He stated that the most conservative average day constraint on each facility is summed to get the 105 MGD result – for example the Peace River Facility is rated by the FDEP to produce 51 MGD, but the Water Use Permit constrains average annual deliveries from the Peace River Facility to 34.8 MGD, and so 34.8 MGD is the Peace River Facility component used in the 105 MGD regional capacity number.

Mr. Coates continued explaining while the current WUP withdrawal schedule supports the existing storage and treatment configuration, and delivery of the Customer contracted quantity of 34.7 MGD from the Peace River Facility, but there were multiple future supplies and supply improvements planned at the Peace River Facility site and adjacent RV Griffin Reserve that would rely on an increased harvest of water above currently permitted quantities from the Peace River. He said one example that was included in the Authority’s 2015 water supply master plan was construction of a second 6 BG off-stream reservoir on RV Griffin, a project that would require getting additional water from the river and increasing the WUP withdrawal quantities.

Mr. Coates stated that there is available water within the Minimum Flows and Levels established by SWFWMD for the Lower Peace River to safely harvest the additional quantities needed to support future treatment capacity increase projects at this site.

Mr. Coates said that regional water demand is increasing and that in the next 30-years the demand projections show that between the Authority and its Customers there is a need to develop 43 MGD in additional water supply capacity.

Commissioner Constance asked why the 105 MG regional capacity number included only the four county members and the city of North Port and said all drinking water supplies in the region should be included and be part of the portfolio. He said that all water sources in 4 county region and total drinking water

capacity for the entire region should be considered in case the other cities needed supply.

Mr. Coates said the Authority could provide information on total drinking water supply capacity in the region.

Commissioner Benac asked if the river withdrawal schedule permitted for the Peace River Facility was less than what would be allowed by the MFL for the lower Peace River.

Mr. Coates said yes.

Commissioner Maio said the Authority was being proactive in planning for the next 30 years regarding another reservoir on RV Griffin with potential mitigation for that new reservoir on the adjacent Orange Hammock property. Commissioner Maio reiterated that the Authority was not planning on putting a reservoir on Orange Hammock.

Commissioner Constance said the current water use permit allowed a maximum river withdrawal of 120 MGD. He suggested asking for 30-year WUP extension and 250 MGD withdrawal from the river.

Mr. Manson suggested asking for the maximum amount and duration permitted by law.

Commissioner Benac asked for clarification.

Commissioner Maio said motion did not reflect any minimum amount; it should be only maximum amount.

**Motion was made by Commissioner Constance, seconded by Commissioner Langford, to authorize staff to move forward with Application for Modification/Renewal of the Peace River Facility Water Use Permit (20010420) for maximum amount permitted by law and the maximum amount of time. Motion was approved unanimously**

**7. Budget Process for FY 2018**

[Commissioner Benac exited the meeting]

Mr. Lehman presented the budget schedule for FY 2018. All documents are available on the website. Mr. Lehman said there would be an increase in energy rates.

Schedule for FY 2018 Budget	
Date	Event
February 1, 2017	Authority Board Meeting – Budget Process
April 12, 2017	Authority Board Meeting – Adopt FY 2018 Tentative Budget
June 7, 2017	Authority Board Meeting
August 2, 2017	Authority Board Meeting – Public Hearing and adoption of FY 2018 Budget



Commissioner Constance asked about energy and any thought on our own solar facility.

Mr. Lehman said the Authority had an alternative energy study done a few years ago.

Commissioner Constance stated it is time to start looking at solar energy options and requested staff to investigate options and cost effectiveness for the next board meeting.

#### **GENERAL COUNSEL'S REPORT**

Nothing to report

#### **EXECUTIVE DIRECTOR'S REPORT**

Mr. Lehman asked the Board for a motion to amend the legislative polices to include the following statement: 'to support allocation of state funds to water infrastructure without creating additional bureaucracy by establishing state counsel.

Motion was made by Commissioner Constance, seconded by Commissioner Langford, to authorize the amendment of the legislative policies. Motion was approved 3 to 0, Commissioner Benac left meeting early.

#### **ROUTINE STATUS REPORTS**

1. Hydrologic Conditions Report
2. Check Registers for November and December 2016
3. Partially Treated Water Aquifer Storage & Recovery Pilot Testing
4. Peace River Basin Report

#### **FACILITY TOUR**

#### **BOARD MEMBER COMMENTS**

Commissioner Constance asked if these were the last payments to Ray Pilon and that his contract ends and was not going to be renewed.

Mr. Lehman confirmed Mr. Pilon's contract expired December 31, 2016 and not renewed.

#### **PUBLIC COMMENTS**

There were not public comments

#### **ANNOUNCEMENTS**

##### Next Authority Board Meeting

Wednesday, April 12, 2017 @ 9:30 a.m.  
DeSoto county Administration Building  
Commission Chambers, First Floor  
201 East Oak Street, Arcadia, Florida

**ADJOURNMENT**

There being no further business to come before the Board, the meeting adjourned at 12:15 p.m.

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Commissioner Alan Maio  
Chairman

DRAFT

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
BOARD OF DIRECTORS MEETING  
April 12, 2017**

**CONSENT AGENDA  
ITEM 2**

**Resolution 2017-02  
'Recognition of the Month of April as Water Conservation Month'**

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**Recommended Action -**

**Motion** to approve Resolution 2017-02 'Recognition of the Month of April as Water Conservation Month'.

By adoption of this resolution, the Authority will be joining with the State of Florida, water management districts, local governments and water-related organizations in recognizing the importance of water conservation in sustaining the water resource.

**Attachments:**

Resolution 2017-02 'Recognition of the Month of April as Water Conservation Month'

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**

**Resolution 2017-02**

**RECOGNITION OF THE MONTH OF APRIL  
AS WATER CONSERVATION MONTH**

The Peace River Manasota Regional Water Supply Authority, created pursuant to Chapter 373.1962, Florida Statutes, now found in Section 373.713, Florida Statutes, and Interlocal agreement pursuant to Chapter 163.01, Florida Statutes, in lawful session and in regular order of business properly presented, finds that:

**WHEREAS**, water is a basic and essential need and critical issue facing Florida as it strives to maintain economic prosperity through residential growth, tourism, agriculture and construction; and,

**WHEREAS**, demands on natural supplies of fresh water to meet the needs of a growing population and the needs of the environment, agriculture and industry will continue to increase; and,

**WHEREAS**, the State of Florida, Southwest Florida Water Management District, Authority and local governments are working together to increase awareness about the importance of water conservation; and,

**WHEREAS**, the State of Florida has designated April, typically a dry month when water demands are most acute, Florida's Water Conservation Month, to educate citizens about how they can help save Florida's precious water resources; and,

**WHEREAS**, the Authority and its member counties encourage and support water conservation and efficiency through various educational programs and special events; and,

**WHEREAS**, every business, industry, school and citizen can make a difference when it comes to water conservation and thus promote a healthy economy and community.

**NOW, THEREFORE, BE IT RESOLVED**, by the Peace River Manasota Regional Water Supply Authority Board of Directors that the month of April is proclaimed as 'Water Conservation Month' and is calling upon each citizen and business to help protect our precious resource by practicing water saving measures and becoming more water efficient.

Done at Arcadia, Florida this Twelfth day of April 2017.

Attest:

**Peace River Manasota  
Regional Water Supply Authority**

\_\_\_\_\_  
Patrick J. Lehman  
Executive Director

\_\_\_\_\_  
Commissioner Alan Maio  
Chairman

Approved as to Form:

\_\_\_\_\_  
Douglas Manson  
General Counsel for Peace River Manasota  
Regional Water Supply Authority

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**CONSENT AGENDA**  
**ITEM 3**

**Resolution 2017-03 'Recognition of National Drinking Water Week'**

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**Recommended Action -**

**Motion** to approve Resolution 2017-03 'Recognition of National Drinking Water Week'.

The importance of water is too often overlooked. Safe drinking water is the lifeblood of our communities yet few people understand the true value of what comes from their tap. The Authority is pleased to take this opportunity with the American Water Works Association to remind everyone that a reliable water system is essential to their everyday life by proclaiming May 7-13, 2017 as 'National Drinking Water Week'.

**Attachments:**

Resolution 2017-03 'Recognition of National Drinking Water Week'

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**

**Resolution 2017-03**

**RECOGNITION OF NATIONAL DRINKING WATER WEEK**

The Peace River Manasota Regional Water Supply Authority, created pursuant to Chapter 373.1962, Florida Statutes (subsequently reenacted as Section 373.713), and interlocal agreement pursuant to Chapter 163.01, *et seq.*, Florida Statutes, in lawful session and in regular order of business properly presented, finds that:

**WHEREAS**, water is our most valuable natural resource; and,

**WHEREAS**, drinking water is a basic and essential need for the health, safety and welfare of the public; and,

**WHEREAS**, our standard of living and economic prosperity depends upon a safe and reliable water supply that is sustainable and protective of our natural resources; and,

**WHEREAS**, a reliable, sustainable, safe and affordable drinking water supply is critical in supporting our economic growth and quality of life now and for future generations; and,

**WHEREAS**, all citizens of our communities are called upon to be good stewards in protecting our source waters from pollution, to practice water conservation, and to get involved in local water issues.

**NOW, THEREFORE, BE IT RESOLVED**, by the Authority Board of the Peace River Manasota Regional Water Supply Authority that May 7-13, 2017 is proclaimed as 'National Drinking Water Week'.

**Done** at Arcadia, Florida this Twelfth day of April 2017.

Attest:

**Peace River Manasota**  
Regional Water Supply Authority

\_\_\_\_\_  
Patrick J. Lehman, P. E.  
Executive Director

\_\_\_\_\_  
Commissioner Alan Maio  
Chairman

Approved as to Form:

\_\_\_\_\_  
Douglas Manson  
General Counsel for the Peace River Manasota  
Regional Water Supply Authority

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**CONSENT AGENDA**  
**ITEM 4**

**Award Contracts for Purchase of Water Treatment Chemicals**

---

**Recommended Action -**

**Motion** to award and authorize Executive Director to execute Contracts for Purchase of Water Treatment Chemicals with the recommended lowest responsible and responsive bidders.

Water treatment chemicals were bid in accordance with the Authority's Procurement Policy and staff recommends award of contracts to the lowest responsible and responsive bidders as listed below. Contracts are for an initial term of one year (April 1, 2017 through March 31, 2018), and are eligible for up to two one-year extensions upon mutual consent of the parties.

<b>Bid Item</b>	<b>Chemical</b>	<b>Recommended Bidder</b>	<b>Unit Cost</b>
No. 1	Aluminum Sulfate	C&S Chemical, Inc.	\$158.45 per ton
No. 2 *	Powdered Activated Carbon	Jacobi Carbons, Inc.	\$1,860.00 per ton
No. 3	Sodium Hydroxide 50% Solution	Univar USA, Inc.	\$464.00 per dry ton
No. 4	Copper Sulfate	Thatcher Chemical of Florida, Inc.	\$1.36 per pound

\*Low bidder determined to be the most cost effective based on independent 3<sup>rd</sup> party performance testing.

**Budget Action** – None. Funds for these purchases are available in the FY 2017 Budget.

**Attachments:**

- Tab A Notice of Award
- Tab B Bid Tab
- Tab C Current Cost Comparison
- Tab D Carbon Testing Performance Factors
- Tab E Sample Contract for Purchase of Water Treatment Chemicals

**TAB A**  
**Notice of Award**



**NOTICE OF AWARD**  
**Water Treatment Chemicals**  
**(Bid Opening Date: March 7, 2017)**

**Recommended Action - Award Purchase Contracts for Water Treatment Chemicals to the recommended lowest responsible and responsive bidders.**

Water treatment chemicals were bid in accordance with the Authority's Procurement Policy. Bids were opened on March 7, 2017.

Staff recommends the Authority Board of Directors award contracts to the lowest responsible and responsive bidders as listed below at the Authority Board meeting on April 12, 2017. Bid tabulation is attached.

\*Bid Item No. 2 Powdered Activated Carbon requires performance testing to determine the effective cost based on specific performance factors for the Peace River Facility. This testing has been completed. Test results and performance evaluation is attached.

<b>Bid Item</b>	<b>Chemical</b>	<b>Recommended Bidder</b>	<b>Unit Cost</b>
No. 1	Aluminum Sulfate	C&S Chemical, Inc.	\$158.45 per ton
No. 2*	Powdered Activated Carbon	Jacobi Carbons, Inc.	\$1,860 per ton
No. 3	Sodium Hydroxide	Univar USA, Inc.	\$464 per ton
No. 4	Copper Sulfate	Thatcher Chemical of Florida, Inc.	\$1.36 per pound

**Failure to file a protest within the time prescribed in section 120.57(3), Florida Statutes, or failure to post the bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under chapter 120, Florida Statutes.**

**Posted: March 30, 2017**

**TAB B**  
**Bid Tab**

Peace River Manitoba Regional Water Supply Authority  
Water Treatment Chemicals  
Bid Opening March 7, 2017 2 pm

Company	Item No. 1 Aluminum Sulfate (\$/ton)	Carbon Product Name (multiple bids)	Item No. 2 Pewer Act'd Carbon (\$/ton)	Item No. 3 Sodium Hydroxide (\$/ton)	Item No. 4 Copper Sulfate (\$/lb)	Check Rec'd for Multiple Carbon bids
Carbon Norri	no bid	n/a	no bid	no bid	no bid	
Thatcher Chemical	\$ 179.79	n/a	no bid	no bid	\$ 1.36	
GEO Specialty	no bid	n/a	no bid	no bid	no bid	
Chemrite	no bid	n/a	no bid	no bid	\$ 1.436	
Univar USA	no bid	n/a	no bid	\$ 464.00	\$	
Standard Purification	no bid	n/a	\$ 1,217.00	no bid	no bid	
Calgon Carbon	no bid	Pulsorb WP220-90	\$ 2,040.00	no bid	no bid	yes: ck #1116
		WPH1000	\$ 1,740.00			
		WPH-M	\$ 1,220.00			
Kemira Water Solutions	no bid	n/a	no bid	no bid	no bid	
Brenntag	no bid	n/a	no bid	\$ 553.00	no bid	
Chemtrade Chemicals	\$ 170.00	n/a	no bid	no bid	no bid	
Allied Universal	no bid	n/a	no bid	\$ 481.96	no bid	
C&S Chemicals	\$ 158.45	n/a	no bid	no bid	no bid	
Jacobi Carbons	no bid	n/a	\$ 1,860.00	no bid	no bid	See Carbon Testing results attached.
Orbow Activated Carbons	no bid	n/a	\$ 1,440.00	no bid	no bid	
		800M	\$ 1,260.00	no bid	no bid	
		800N	\$ 1,260.00			
CarbPure Technologies	no bid	Carbpure 800 O	\$ 1,360.00	no bid	no bid	yes: ck#128
		Carbpure 800P	\$ 1,360.00			

Note: Entities submitting bids in accordance with the bid documents are listed above.

Highlighted area indicates recommended lowest responsive bid to be recommended to the Authority Board for award of contract on April 12, 2017.

Peace River Facility Chemical Bids  
Carbon Testing Performance Factors  
March 2017

Carbon Name	SAMPLE CODE (see note a)	PAC Dose (see note b) (mg/l)	Bid cost per ton (\$)	Performance Factor (see note c)	Effective Cost (\$)	Rank (see note d)	Sieve Test (%<400)	Iodine Value	MSDS Iodine #
OXBOW Oxpure AQM 325-8	A	NA	\$1,440		\$0	*	77.87	631	800
Carbon Purification - Carb Pure 800-M	B	39.65	\$1,260	1.91	\$2,408	4	98.25	883	857
Carbon Purification - Carb Pure 800-N	C	42	\$1,260	2.02	\$2,550	5	96.25	857	857
Carbon Purification - Carb Pure 800-O	D	47.7	\$1,360	2.30	\$3,126	6	91.77	836	821
Carbon Purification - Carb Pure 800-P	E	49.45	\$1,360	2.38	\$3,241	7	89.53	810	821
Calgon WPH1000	F	24.6	\$1,740	1.19	\$2,063	2	93.02	1159	1180
Calgon WPH-M	G	NA	\$1,220		\$0	*	89.82	599	500
Calgon Pulsorb WP220-90	H	33.25	\$2,040	1.60	\$3,269	8	86.76	931	1002
Standard Purification WaterCarb 800	I	38.8	\$1,217	1.87	\$2,276	3	87.17	812	800
Jacobi AquaSorb CB1-MW, PAC-F	J	20.75	\$1,860	1.00	\$1,860	1	67.14	1232	1181

**Notes**

- a) Samples were sent as blind samples to the lab, only the Authority was aware of their true identities.
- b) Samples analyzed by Engineering Performance Solutions, Inc. of Jacksonville, Florida in a matrix of raw Peace River water spiked with synthetic organic taste and odor compounds. Dose indicated was the dose required to reduce the taste and odor compounds to target levels in an established timeframe.
- c) Performance factor is established to be 1.0 for the lowest dose that achieved the desired performance metric. This is the baseline dose for comparison and becomes the denominator in the quotient that then defines every other sample identified as: Performance Factor X = (Dose X)/(Baseline Dose)
- d) \*Indicates - Failed to achieve 70% removal at 70 mg\l dose rate.

**TAB C**  
**Current Cost Comparison**

**Recommended Water Treatment Chemical Vendor and Pricing**

<b>Bid Item</b>	<b>Chemical</b>	<b>Recommended Bidder</b>	<b>Unit Cost</b>
No. 1	Aluminum Sulfate	C&S Chemical, Inc.	\$158.45 per ton
No. 2 *	Powdered Activated Carbon	Jacobi Carbons, Inc.	\$1,860.00 per ton
No. 3	Sodium Hydroxide 50% Solution	Univar USA, Inc.	\$464.00 per dry ton
No. 4	Copper Sulfate	Thatcher Chemical of Florida, Inc.	\$1.36 per pound

**Current Water Treatment Chemical Vendor and Pricing**

<b>Bid Item</b>	<b>Chemical</b>	<b>Current Vendor</b>	<b>Unit Cost</b>
No. 1	Aluminum Sulfate	C&S Chemical, Inc.	\$161.50 per ton
No. 2 *	Powdered Activated Carbon	Cabot Norit Americas	\$1,100.00 per ton
No. 3	Sodium Hydroxide 50% Solution	Allied Universal Corp.	\$444.51 per dry ton
No. 4	Copper Sulfate	Chemrite, Inc.	\$1.48 per pound

\*Bid Item No. 2 Powdered Activated Carbon requires performance testing to determine the effective cost based on specific performance factors for the Peace River Facility. This testing has been completed. Test results and performance evaluation is attached.

**TAB D**  
**Carbon Testing Performance Factors**

**POWDERED ACTIVATED CARBON PERFORMANCE  
FACTORS FOR THE PEACE RIVER REGIONAL  
WATER SUPPLY FACILITY**

**As commissioned by:**  
Peace River/Manasota Regional Water Supply Authority

**Prepared by:**  
Engineering Performance Solutions, LLC  
3161 St. Johns Bluff Rd. Suite 3  
Jacksonville, FL 32246  
Phone: 904-645-7775

**Report #: 19.417.0317**

**03.15.2017**



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## SCOPE

Engineering Performance Solutions (EPS) specializes in assisting water utilities with the selection of their treatment chemicals in addition to conducting routine water quality monitoring. One particular specialty lies in the analyses of taste- and odor-causing compounds and in this case specifically, 2-methylisoborneol (MIB) and geosmin. Activated carbon (i.e., PAC and GAC) is commonly used among water treatment facilities to remove these displeasing compounds. Although, PAC and GAC are often purchased based on indices such as iodine number, phenol value, molasses number, and tannin value, these properties however have not correlated well with performance. Therefore, this necessitates that activated carbons be selected based on testing versus specifications. These results are received through performance based testing, which is developed specifically for each utility.

With agreement between the Peace River Manasota Regional Water Supply Authority (Authority) and EPS, a proposal was authorized by the Authority on 03/07/17 to perform the following:

**Evaluation of Carbons and Design of Performance Factors** - The scope of the project, as defined by the Authority, was to analyze 10 PACs provided by the Authority under simulated full-scale conditions at the Peace River Water Treatment Plant. The PAC profiling work was to include both MIB and geosmin 4-point dose removal curves and resulting performance factors

## BACKGROUND

The occurrence of tastes and odors in drinking water is a serious problem for water utilities in the United States and throughout the world. According to a taste and odor survey by the American Water Works Association, of 377 water utilities questioned, 43% reported both taste and odor episodes exceeding one week and 16% had serious odor problems that occurred seasonally (Suffet et al., 1996). These offensive tastes and odors in potable water may arise in the raw water supply, during the treatment process (i.e., chlorination), or from microbial growth in the distribution system. The focus of this work was on compounds that manifest tastes and odors in raw water supplies; specifically 1,2,7,7-tetramethyl-bicyclo-heptan-2-ol (2-methylisoborneol or MIB) and trans-1,10-dimethyl-trans-9-decalol (geosmin), which impart an earthy/musty odor (Herzing et al., 1977; Lalezary et al., 1986b; Pendleton et al., 1997).

Many water utilities rely on conventional water treatment methods, such as coagulation-sedimentation and rapid sand filtration, to contend with tastes and odors. However, conventional treatment and other common treatment technologies, such as air stripping and oxidation, are ineffective for removing MIB and geosmin (Lalezary et al., 1984; Lalezary et al., 1986a). Chlorine oxidation was shown to be unsuccessful in removing MIB and geosmin by Lalezary et al. (1986b). In addition, chlorine can temporarily mask the musty/earthy odors, and, in some cases, enhance

them and subsequently manifest them back in the distribution system when the chlorine residual dissipates.

Many researchers have studied methods besides conventional treatment for the removal of tastes and odors. A common method found for successfully removing these tastes and odors to acceptable concentrations is the application of activated carbon (Herzing et al., 1977; Lalezary et al., 1986a; Vik et al., 1988; Chen et al., 1997; Pendleton et al., 1997; Gillogly et al., 1998). Carbon is very effective for removing these compounds due to its high specific surface area (500 – 1800 m<sup>2</sup>/g), large adsorption capacity, high degree of surface reactivity, and porosity.

The Peace River facility currently utilizes PAC to combat taste and odors and seeks to enhance their dosage requirements by using the PAC performance based testing conducted by EPS. This surface water treatment facility receives water from the nearby Peace River, which is fed by upstream lakes (i.e., Lake Hancock and several water bodies from the Polk County area). The Authority currently has two manmade unlined off stream reservoirs (approximately 30 - 35 ft. deep) which allows for settling of the Peace River water prior to delivery into the Authority's treatment system.

## **METHOD**

Dosing regimen of the powdered activated carbon, plant flow, chemical additions and other specifications were originally collected during a prior site visit to the Peace River Facility, as well as phone conversations and email correspondence from last year's project. Updated information for this year's project was collected via phone conversations and mail between EPS personnel and the Authority's System Operations Manager Mr. Richard Anderson.

In conducting these experiments, raw water from Reservoir 2 was collected from the effluent flume in an attempt to provide a more representative raw water sample. This sample was later chilled and shipped to EPS via overnight delivery. The water was received the next morning (03.10.2017), and was refrigerated at 4 °C. Just prior to conducting the analyses the raw water was returned to room temperature. Geosmin and MIB standards from the chemical supplier Supelco (Bellefonte, PA: part numbers 47522-U and 47523-U) were used to achieve the MIB and geosmin concentrations of interest within the raw water.

The resulting design for the project was as follows:

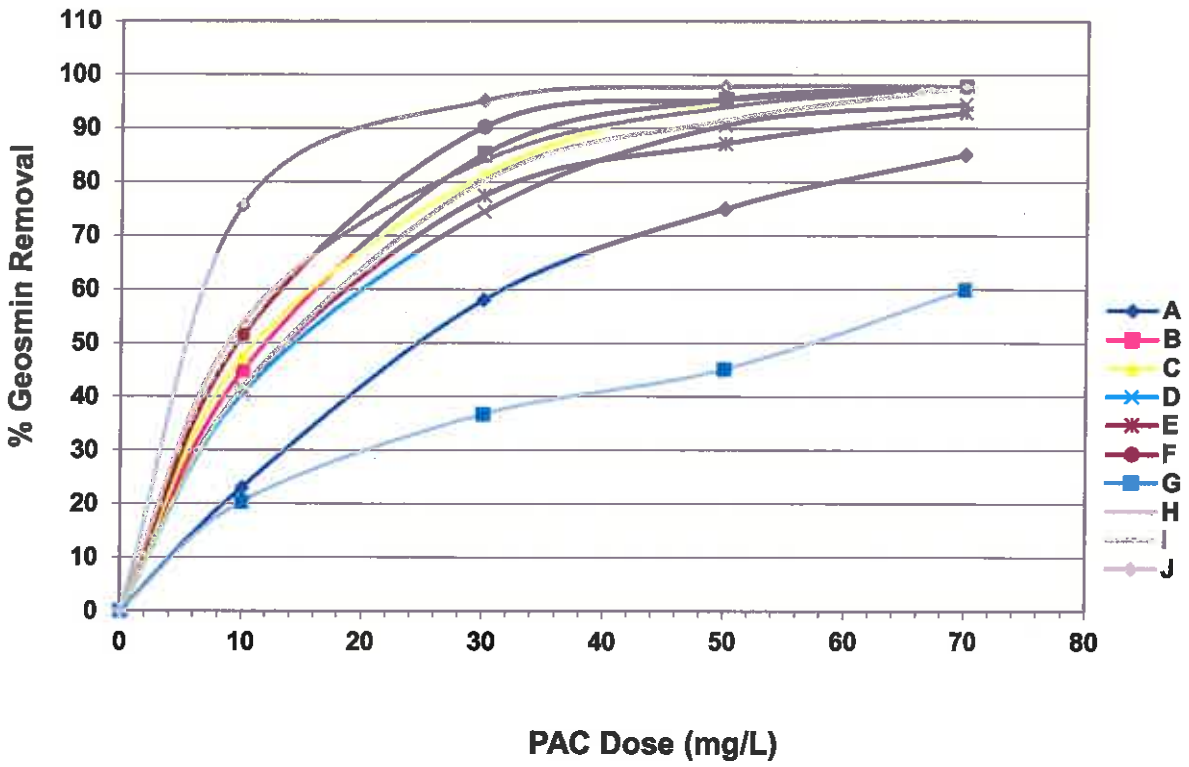
1. Due to the lack of historical MIB and geosmin occurrence data of the Authority's raw water source, an estimate had to be made of the concentrations that could potentially be experienced. Authority representatives thought it best to evaluate concentrations based on historical data seen at the nearby Manatee County Water Treatment Facility. It was communicated by the Authority for this report to mimic the higher

concentrations as seen by Manatee County (60 ng/L of MIB and 30 ng/L of geosmin). Both MIB and geosmin were dosed collectively for each jar test for two reasons: (1) to simulate competition between the compounds and (2) to mimic full-scale interactions where the two typically coexist in the environment. The initial concentrations of these compounds will not impact the dose removal curve of the PAC studies, as the generation of these curves is independent of starting concentration (Gilligly et al, 1998).

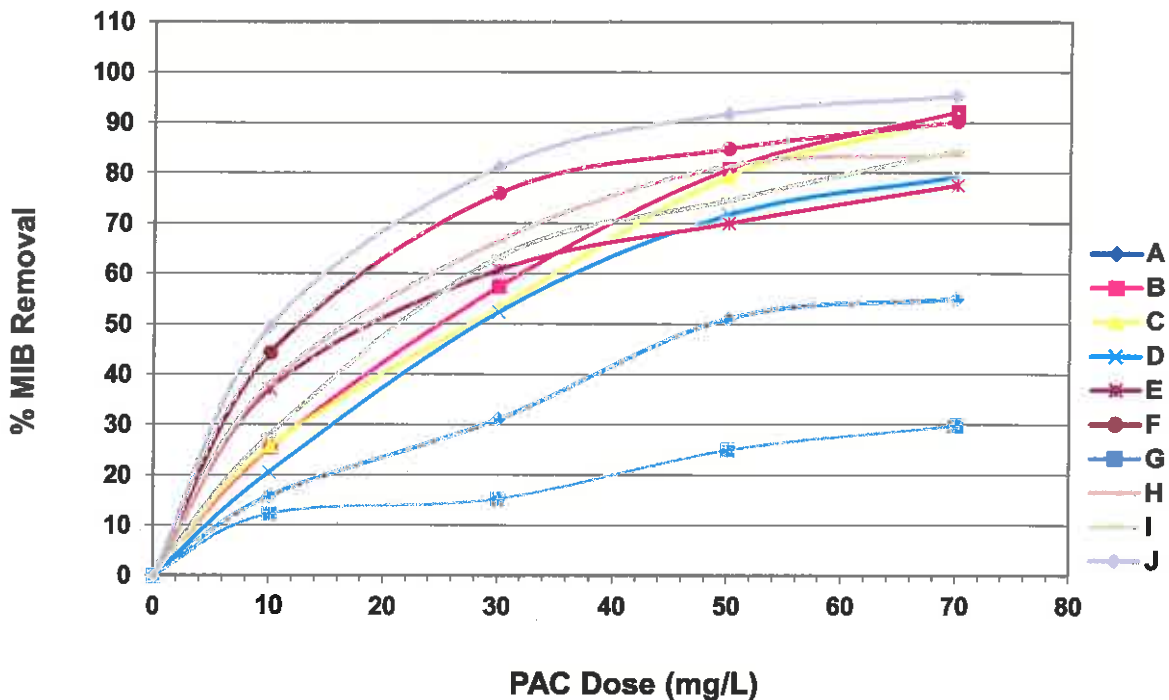
2. The occasional caustic soda addition prior to PAC addition had no significant discernable impact on percent removal of MIB and geosmin by PAC in previous studies; therefore it was not included in this study.
3. The jar tests were run with a contact time of 20 minutes. The procedure for the jar tests is part of the AWWA PAC Standard (AWWA B600).
4. In each scenario for the Peace River facility, PAC doses of 10, 30, 50, and 70 mg/L along with a blank (i.e., no PAC added), were used to generate dose removal curves for MIB and geosmin. All samples were measured in duplicate via Solid Phase Microextraction (SPME)/Gas Chromatography/Mass Spectrometer (GC/MS) using method 6040 D of the Standard Methods for the Examination of Water and Wastewater 22<sup>nd</sup> Edition. The averaged detailed results used to generate the dose removal curves contained herein can be found in the attached quality assurance/quality control (QA/QC) report in Appendix A.

## RESULTS

Figures 1 and 2 shown below represent the graphical results of the 10 PACs (labeled A to J) for percent removal of geosmin and MIB, respectively (Appendix B contains these very same figures only detailed and enlarged).



**Figure 1. Peace River/Manasota Regional Water Supply Facility Geosmin Dose Removal Curve**



**Figure 2. Peace River/Manasota Regional Water Supply Facility MIB Dose Removal Curve**

## DISCUSSION

Figure 1 depicts geosmin dose removal curves for 10 PACs provided by the Authority. For the same PAC dose, the spread of performance for the 10 PACs were very diverse. Only 1 of the carbons did not reach 70% removal at doses less than 70 mg/L. This high success rate is not uncommon since geosmin is typically more easily removed from conventional water treatment practices versus its counterpart, MIB.

Figure 2 represents MIB dose removal curves with the same 10 PACs provided by the Authority. In this case, the curves were just as diverse as in Figure 1, and the PAC dose required to remove MIB is clearly higher. In the case of geosmin, all but one of the carbons achieved 70% removal at carbon doses below 70 mg/L, whereas with MIB, all but two of the carbons were able to remove 70% at this dose.

The performance factor ranking utilized the following scenario and is discussed further in the Conclusions:

1. MIB was chosen as the primary factor over geosmin due to its persistence in the effluent versus its counterpart.

2. 70% removal of MIB was sufficient to capture the majority of the MIB with typical PAC dosages.

## CONCLUSIONS

Ten PACs were compared for their ability to remove MIB and geosmin (spiked to approximately 60 ng/L and 30 ng/L respectively) from Reservoir 2 raw water collected on 03.09.17. PAC doses were chosen with a contact time of 20 minutes based on previous studies (Report # 19.1.0603.Final-Amended). Dose removal curves were generated for MIB and geosmin with the Authority's raw water. With this data, performance factors were then generated to compare the PACs. These performance factors could then be used to determine a weighted PAC cost that incorporates performance and cost of the carbon.

The calculation for the performance factors are as follows:

1. The performance factor for each PAC was determined by using 70% MIB removal as the target. For instance, if the Facility required the influent concentration of 30 ng/L to be reduced to 9 ng/L which is below the OTC (Odor Threshold Concentration), this would require 70% removal.
2. Based on the figure attached in the report, construct a horizontal line across the figure at 70% removal until it intersects each PAC (Figure 3 provides an approximation of the method). At the intersection construct a vertical line down to the x-axis. Each vertical line will provide the PAC dose required to remove 70% of the MIB. EPS increased the precision of this method by adjusting the x-axis values in Microsoft Excel and the results are shown in Table 1 below.
3. Divide the dose for each PAC that achieves the target removal (i.e., 70%) by the smallest dose of the PAC that achieves the target removal. This determines the relative performance factors. For example,
  - $J = 20.75/20.75 = 1.00$
  - $F = 24.60/20.75 = 1.19$
4. Finally, by multiplying the performance factor by the cost submitted by each carbon vendor, the best PAC based on performance and cost can be chosen.



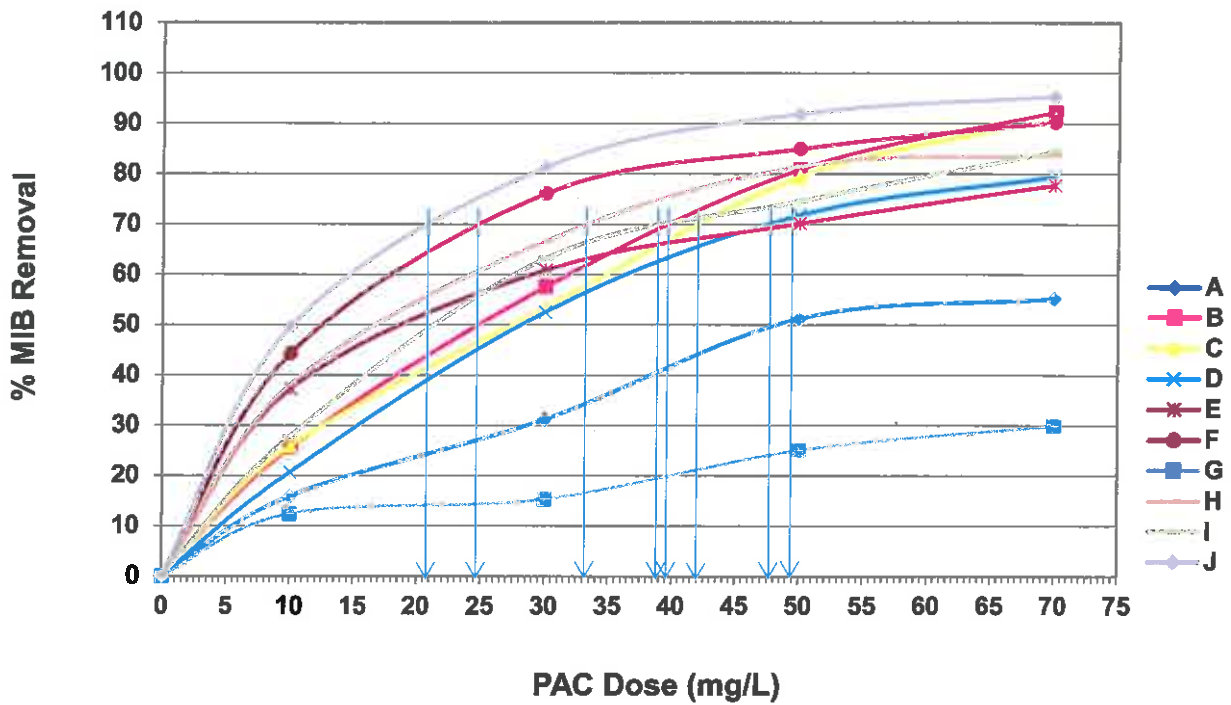


Figure 3. Example of Performance Factor Calculation at 70% MIB Removal for Peace River

Table 1. Performance Factors Required to Meet 70% MIB Removal

PAC	PAC Dose (mg/L)	Performance Factor
A	NA	NA
B	39.65	1.91
C	42.00	2.02
D	47.70	2.30
E	49.45	2.38
F	24.60	1.19
G	NA	NA
H	33.25	1.60
I	38.80	1.87
J	20.75	1.00

*Note that changes in raw water quality (e.g., seasonal changes) or activated carbon quality could influence the results presented. Finally, the trends and performance depicted here are specific to the Peace River Facility only.*

## REFERENCES

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**APPENDIX A**

**QA/QC Report**

A Concentration (mg/L)	MIB					Geosmin				
	Amount 1	Amount 2	Average (ng/L)	% RSD	MIB % Removal	Amount 1	Amount 2	Average (ng/L)	% RSD	Geosmin % Removal
0	60.53	65.42	63.0	5.5	0	41.45	44.73	43.1	5.4	0
10	53.39	52.63	53.0	1.0	15.8	34.85	31.48	33.2	7.2	23.0
30	46.13	40.68	43.4	8.9	31.1	19.42	16.73	18.1	10.5	58.1
50	32.09	29.58	30.8	5.7	51.0	11.07	10.42	10.7	4.3	75.1
70	29.57	27.13	28.4	6.1	55.0	6.36	6.45	6.4	1.0	85.1
B Concentration (mg/L)	MIB					Geosmin				
Amount 1	Amount 2	Average (ng/L)	% RSD	MIB % Removal	Amount 1	Amount 2	Average (ng/L)	% RSD	Geosmin % Removal	
0	60.53	65.42	63.0	5.5	0	41.45	44.73	43.1	5.4	0
10	49.63	44.31	47.0	8.0	25.4	24.72	22.78	23.8	5.8	44.9
30	27.95	25.61	26.8	6.2	57.5	6.72	6.00	6.4	8.0	85.2
50	12.26	11.80	12.0	2.7	80.9	1.89	1.98	1.9	3.3	95.5
70	4.82	4.94	4.9	1.8	92.3	0.99	0.99	1.0	0.0	97.7
C Concentration (mg/L)	MIB					Geosmin				
Amount 1	Amount 2	Average (ng/L)	% RSD	MIB % Removal	Amount 1	Amount 2	Average (ng/L)	% RSD	Geosmin % Removal	
0	60.53	65.42	63.0	5.5	0	41.45	44.73	43.1	5.4	0
10	48.76	44.80	46.8	6.0	25.7	23.73	21.60	22.7	6.6	47.4
30	29.73	29.11	29.4	1.5	53.3	8.56	7.51	8.0	9.2	81.4
50	13.55	12.43	13.0	6.1	79.4	2.06	2.35	2.2	9.3	94.9
70	5.38	6.07	5.7	8.4	90.9	0.99	0.99	1.0	0.0	97.7
D Concentration (mg/L)	MIB					Geosmin				
Amount 1	Amount 2	Average (ng/L)	% RSD	MIB % Removal	Amount 1	Amount 2	Average (ng/L)	% RSD	Geosmin % Removal	
0	60.96	66.71	63.8	6.4	0	44.31	44.56	44.4	0.4	0
10	49.32	52.04	50.7	3.8	20.6	26.39	26.44	26.4	0.1	40.6
30	31.98	28.87	30.4	7.2	52.3	11.95	10.72	11.3	7.7	74.5
50	19.30	16.85	18.1	9.6	71.7	4.33	4.02	4.2	5.3	90.6
70	13.13	13.21	13.2	0.4	79.4	2.45	2.40	2.4	1.5	94.5
E Concentration (mg/L)	MIB					Geosmin				
Amount 1	Amount 2	Average (ng/L)	% RSD	MIB % Removal	Amount 1	Amount 2	Average (ng/L)	% RSD	Geosmin % Removal	
0	60.96	66.71	63.8	6.4	0	44.31	44.56	44.4	0.4	0
10	40.54	39.73	40.1	1.4	37.1	26.17	25.89	26.0	0.8	41.4
30	26.25	23.75	25.0	7.1	60.8	10.68	9.36	10.0	9.3	77.5
50	19.87	18.27	19.1	5.9	70.1	5.83	5.54	5.7	3.6	87.2
70	13.36	15.11	14.2	8.7	77.7	3.22	3.04	3.1	4.1	93.0
F Concentration (mg/L)	MIB					Geosmin				
Amount 1	Amount 2	Average (ng/L)	% RSD	MIB % Removal	Amount 1	Amount 2	Average (ng/L)	% RSD	Geosmin % Removal	
0	60.96	66.71	63.8	6.4	0	44.31	44.56	44.4	0.4	0
10	36.00	35.21	35.6	1.6	44.2	21.89	21.35	21.6	1.8	51.3
30	15.49	15.06	15.3	2.0	76.1	4.39	4.23	4.3	2.6	90.3
50	9.60	9.67	9.6	0.5	84.9	2.00	2.11	2.1	3.8	95.4
70	5.95	6.47	6.2	6.0	90.3	0.99	0.99	1.0	0.0	97.8

<b>G</b>	<b>MIB</b>					<b>Geosmin</b>				
Concentration (mg/L)	Amount 1	Amount 2	Average (ng/L)	% RSD	MIB % Removal	Amount 1	Amount 2	Average (ng/L)	% RSD	Geosmin % Removal
0	65.61	62.64	64.1	3.3	0	43.54	41.67	42.6	3.1	0
10	55.42	56.98	56.2	2.0	12.4	32.90	34.97	33.9	4.3	20.3
30	55.60	52.99	54.3	3.4	15.3	27.05	26.86	27.0	0.5	36.7
50	47.02	49.19	48.1	3.2	25.0	23.05	23.71	23.4	2.0	45.1
70	43.96	46.08	45.0	3.3	29.8	17.48	16.66	17.1	3.4	59.9
<b>H</b>	<b>MIB</b>					<b>Geosmin</b>				
Concentration (mg/L)	Amount 1	Amount 2	Average (ng/L)	% RSD	MIB % Removal	Amount 1	Amount 2	Average (ng/L)	% RSD	Geosmin % Removal
0	65.61	62.64	64.1	3.3	0	43.54	41.67	42.6	3.1	0
10	39.38	40.04	39.7	1.2	38.1	19.20	20.08	19.6	3.2	53.9
30	21.06	21.73	21.4	2.2	66.6	6.98	6.60	6.8	4.0	84.1
50	12.36	11.37	11.9	5.9	81.5	2.69	2.40	2.5	8.1	94.0
70	10.14	10.82	10.5	4.5	83.7	0.99	0.99	1.0	0.0	97.7
<b>I</b>	<b>MIB</b>					<b>Geosmin</b>				
Concentration (mg/L)	Amount 1	Amount 2	Average (ng/L)	% RSD	MIB % Removal	Amount 1	Amount 2	Average (ng/L)	% RSD	Geosmin % Removal
0	65.43	61.66	63.5	4.2	0	45.23	44.24	44.7	1.6	0
10	47.88	43.84	45.9	6.2	27.8	25.63	26.65	26.1	2.8	41.6
30	24.46	22.26	23.4	6.7	63.2	8.83	8.82	8.8	0.1	80.3
50	16.90	15.40	16.2	6.5	74.6	3.79	3.79	3.8	0.0	91.5
70	9.54	10.18	9.9	4.6	84.5	0.99	0.99	1.0	0.0	97.8
<b>J</b>	<b>MIB</b>					<b>Geosmin</b>				
Concentration (mg/L)	Amount 1	Amount 2	Average (ng/L)	% RSD	MIB % Removal	Amount 1	Amount 2	Average (ng/L)	% RSD	Geosmin % Removal
0	65.43	61.66	63.5	4.2	0	45.23	44.24	44.7	1.6	0
10	32.84	31.22	32.0	3.6	49.6	11.13	10.66	10.9	3.1	75.6
30	12.20	11.56	11.9	3.8	81.3	2.14	2.17	2.2	1.0	95.2
50	5.30	5.10	5.2	2.7	91.8	0.99	0.99	1.0	0.0	97.8
70	2.82	3.10	3.0	6.8	95.3	0.99	0.99	1.0	0.0	97.8

### References

Analyte	Method Reporting Limit	Target	Found	% Recovery	Control Limit
MIB (ng/L)	1.0 ng/L	5.00	4.90	98	80-120%
Geosmin (ng/L)	1.0 ng/L	5.00	5.10	102	80-120%

Analyte	Method Reporting Limit	Target	Found	% Recovery	Control Limit
MIB (ng/L)	1.0 ng/L	10.00	10.57	106	80-120%
Geosmin (ng/L)	1.0 ng/L	10.00	9.83	98	80-120%

Analyte	Method Reporting Limit	Target	Found	% Recovery	Control Limit
MIB (ng/L)	1.0 ng/L	25.00	24.81	99	80-120%
Geosmin (ng/L)	1.0 ng/L	25.00	24.13	97	80-120%

Analyte	Method Reporting Limit	Target	Found	% Recovery	Control Limit
MIB (ng/L)	1.0 ng/L	50.00	50.45	101	80-120%
Geosmin (ng/L)	1.0 ng/L	50.00	50.46	101	80-120%

### Method Blanks

Analyte	Method Detection Limit	Blank Concentration
MIB (ng/L)	1.0 ng/L	<1.0
Geosmin (ng/L)	1.0 ng/L	<1.0

<Below the reporting limit

APPENDIX B

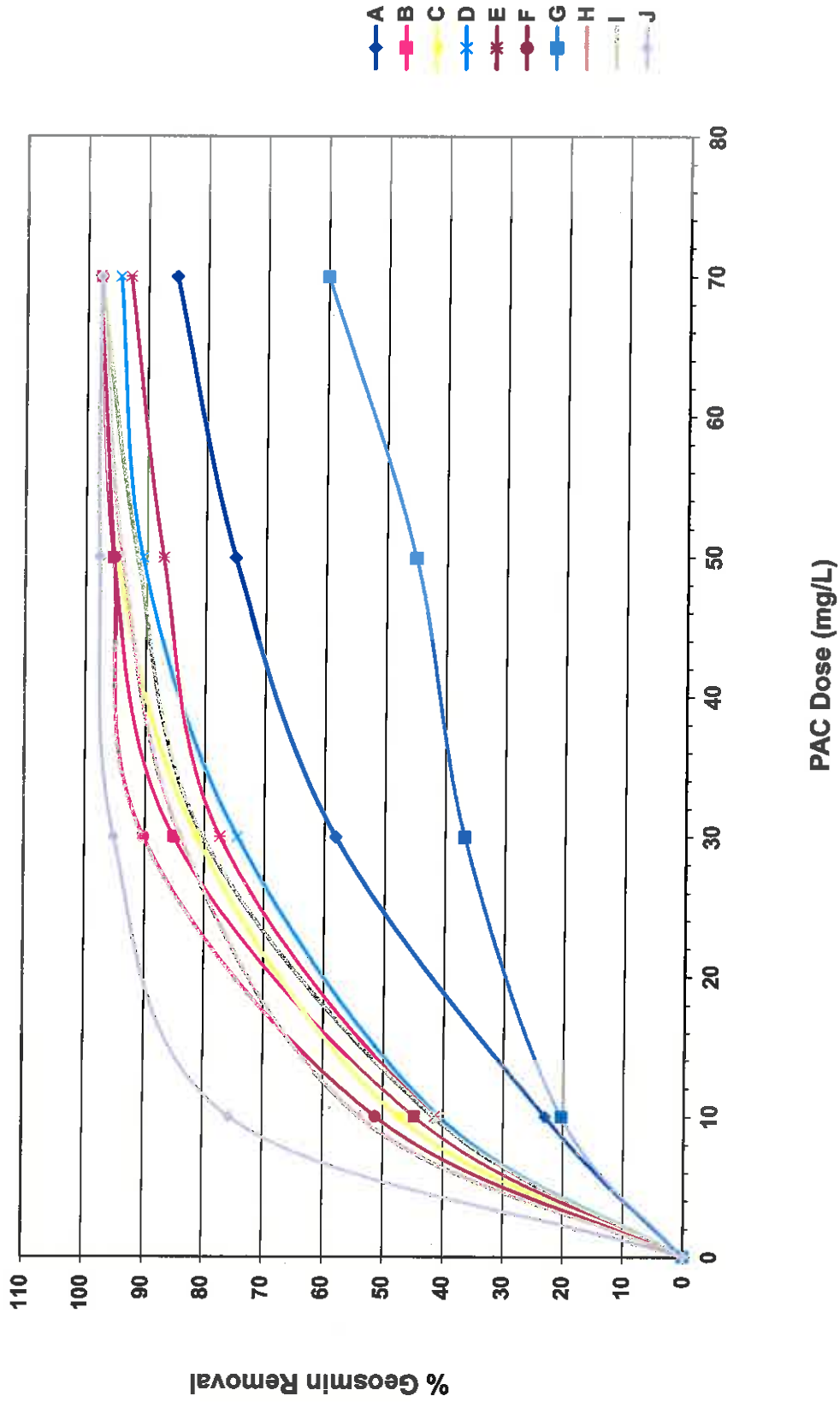


Figure 1. Peace River/Manasota Regional Water Supply Facility Geosmin Dose Removal Curve

APPENDIX B, continued

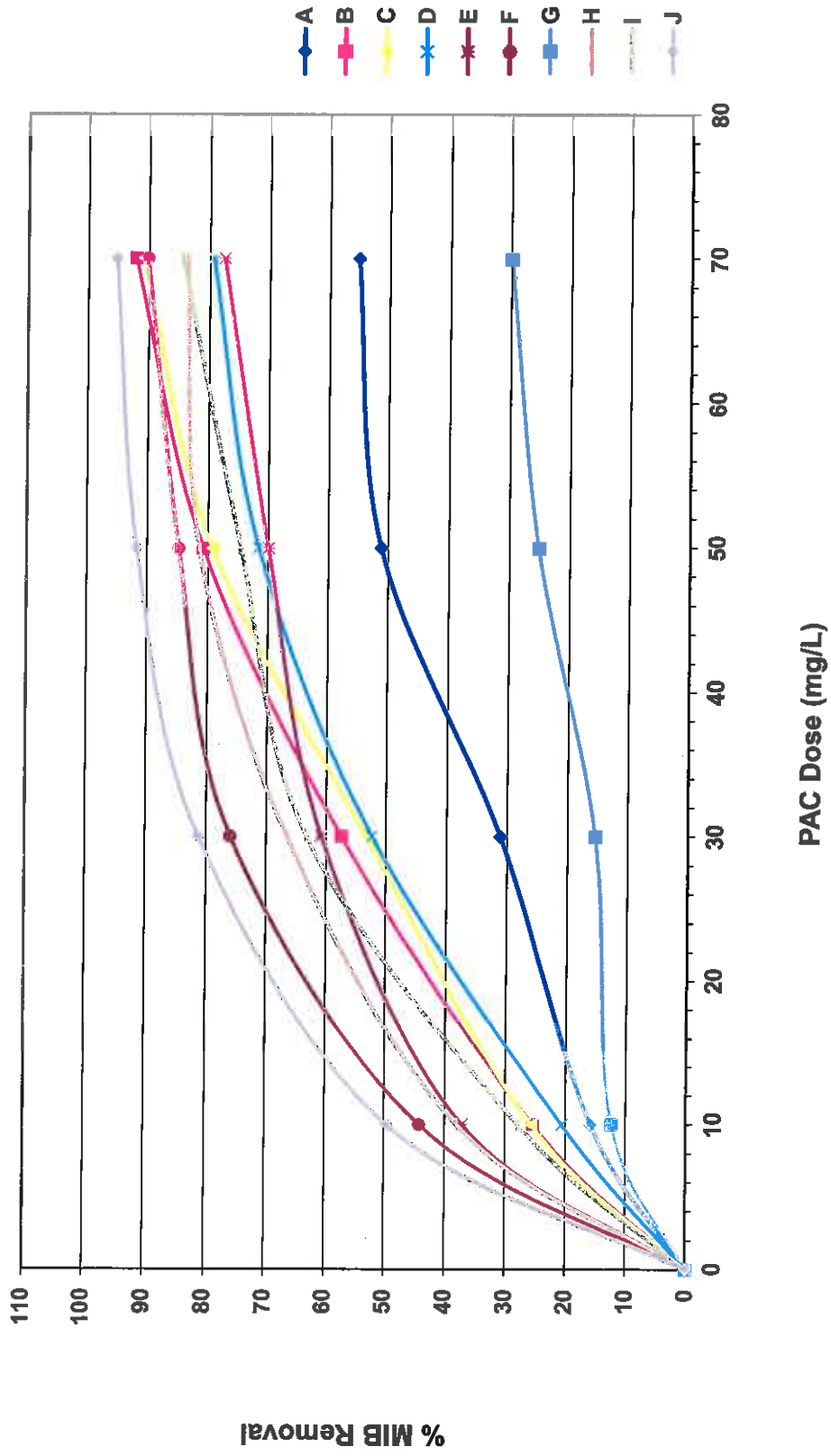


Figure 2. Peace River/Manasota Regional Water Supply Facility MIB Dose Removal Curve

**TAB E**  
**Contract for Purchase of Water Treatment Chemicals**



**CONTRACT FOR PURCHASE OF GOODS  
WATER TREATMENT CHEMICALS**

This Contract for Purchase of Goods, Water Treatment Chemicals, hereinafter referred to as the "Agreement", is made and entered into on \_\_\_\_\_, 2017, between PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY, 9415 Town Center Parkway, Lakewood Ranch, Florida 34202, hereinafter referred to as "Authority", and \_\_\_\_\_ hereinafter referred to as "Seller".

**WHEREAS** the Authority desires to engage the Seller to provide water treatment chemicals for the Peace River Regional Water Supply Facility, hereinafter referred to as the "Peace River Facility" on an as-needed basis for a fixed price; and

**WHEREAS** the Seller desires to supply water treatment chemicals as described herein, and has the experience, personnel and resources to provide these chemicals in a timely manner.

**NOW, THEREFORE**, in consideration of the mutual covenants and agreements hereinafter contained, the parties agree as follows:

**ARTICLE 1. INTEGRATED AGREEMENT**

The terms of this Agreement are intended by the parties as a final expression of their agreement with respect to its terms and as a complete and exclusive statement of its terms. The recitations are incorporated herein by reference.

**ARTICLE 2. DESCRIPTION OF GOODS**

The Seller undertakes to transfer ownership, sell and deliver possession to the Authority, and the Authority shall pay for, buy and accept the following water treatment chemicals:

\_\_\_\_\_

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These chemicals are to be furnished firm FOB destination price for the delivery and unloading of water treatment chemicals at the Peace River Facility located in DeSoto County as set forth in the Bid Documents and hereinafter referred to as the "goods" or "chemicals".

**ARTICLE 3. TIME AND PLACE OF DELIVERY**

Delivery of the goods shall occur within five (5) business days of being requested by the Authority except for powder activated carbon which shall be delivered within ten (10) business days upon receipt of request for goods by the Authority.

The goods shall be delivered to and unloaded at the Peace River Facility, 8998 SW County Road 769, Arcadia, Florida 34269 ("place of delivery"). Time is of the essence and the Seller shall be held strictly to the delivery date from the receipt of the purchase order. Chemicals not delivered by the date specified shall justify the Authority's option to terminate the contract. All deliveries shall be made between the hours of 8:00 A.M. and 3:00 P.M., Monday through Friday, excluding holidays, unless otherwise agreed to by the Authority.

Seller confirms that its equipment is compatible with the Authority's unloading and storage facilities at no inconvenience to the Authority. Certified weight or volume (as applicable to unit costs) tickets are required with each delivery. The Seller shall provide a separate delivery ticket for each delivery and shall obtain an authorized signature from the Authority. At least one copy of the delivery ticket and corresponding

weight or volume (as applicable to unit costs) ticket shall be provided to the Authority with each delivery.

Each individual purchase shall be assigned a Purchase Order. Separate invoicing shall be required for each delivery, showing the Purchase Order number. Seller shall also comply with all requirements of the Safety Measures attached hereto as Exhibit E.

#### **ARTICLE 4. PRICE**

The unit prices, FOB destination quoted by the Seller in its Bid Form, and attached as Exhibit A, shall be considered firm throughout the term of the Agreement. The prices quoted shall be used for payment and shall include payment in full for all transportation, labor, equipment and other costs used in delivering all goods to the point of delivery and the unloading of such goods. There shall be no cost adjustments.

Storage tanks, where required, for goods offered under this Agreement shall be furnished by the supplier(s) at the Authority's option on loan, and at no cost to the Authority. Estimated quantities are not guaranteed. The Authority is not obligated to make any minimum quantity purchases from the Seller during the Agreement term.

#### **ARTICLE 5. CANCELLATION**

Failure by the Seller to comply with terms of this Agreement shall be deemed a breach of contract claim against Seller and shall, at the Authority's sole and absolute discretion, result in the cancellation of this Agreement in accordance with ARTICLE 19. TERMINATION.

#### **ARTICLE 6. COMPENSATION**

The Seller shall prepare and submit to the Authority invoices for goods delivered. The Executive Director shall approve payment after verifying delivery is in compliance

with all requirements of this Agreement. Payment shall be made in accordance with the Part VII of Chapter 218, Florida Statutes, Florida Prompt Payment Act. The Authority may, in addition to other remedies available at law or equity, retain such monies from amounts due Seller as may be necessary to satisfy any claim for damages, penalties, costs and the like asserted by or against the Authority. The Authority may set off any liability or other obligation of the Seller to the Authority against any payments due the Seller under this Agreement.

#### **ARTICLE 7. SELLER'S ASSIGNMENT OF PAYMENT**

The Seller may not assign the right to receive payment from the Authority.

#### **ARTICLE 8. EXPRESS WARRANTY**

In addition to any implied warranties of the Uniform Commercial Code, the Seller warrants to the Authority that the goods being sold under this agreement shall strictly meet the specifications in Exhibit D.

#### **ARTICLE 9. RIGHT OF INSPECTION**

The Authority shall have the right to inspect the goods at the time and place of delivery, before payment or acceptance.

#### **ARTICLE 10. ALLOCATION OF RISK OF LOSS**

Any risk or loss associated with the goods remains with the Seller until the time of acceptance of the goods by the Authority at the place of delivery.

#### **ARTICLE 11. REJECTION OF NONCONFORMING GOODS**

Rejection of goods for failure to conform to the requirements of this Agreement must be made within thirty (30) days after their delivery and inspection. The Authority shall send written notification of the rejection to the Seller. The notice must state the

basis of the alleged nonconformity of the goods and describe the portion of the shipment being rejected.

On receipt of notification of rejection, the Seller shall immediately arrange for the return shipment of the goods at the Seller's expense. The Seller shall ship replacement conforming goods within ten (10) business days of the notice of rejection unless the Authority notifies the Seller to forgo the shipment before that date.

#### **ARTICLE 12. ADDITIONAL REMEDIES OF THE AUTHORITY**

In addition to any of the remedies provided under the Uniform Commercial Code, if the Seller is unable to provide services because of breakdown, product scheduling, lack of product or equipment, then the Authority may, on an order basis, go to the next qualified bidder.

#### **ARTICLE 13. EXCLUSIVE REMEDIES OF THE SELLER**

The exclusive remedies of the Seller under this Agreement are to have any goods not paid for returned to the Seller, or to receive, on demand, the purchase price for any goods not paid for in accordance with the terms of this Agreement and not returned within sixty (60) days of the demand.

#### **ARTICLE 14. WAIVER**

No claim or right arising out of a breach of this Agreement can be discharged by the Authority in whole or in part by a waiver or renunciation of the claim or right unless the waiver or renunciation is supported by consideration, is in writing, and is signed by the Executive Director or appointed designee.

#### **ARTICLE 15. SELLER'S DELEGATION**

The Seller may not delegate its performance in the delivery of goods under this Agreement without the prior written consent of the Authority. Written consent shall be in

Authority's sole discretion, and if granted shall be given once the Authority has received satisfactory assurances that the quality of goods being substituted shall be equivalent to that of the contract goods, that all terms of the Contract Documents are complied with, and that the delegation shall not otherwise adversely affect the Authority's rights and obligations with regard to other sellers.

#### **ARTICLE 16. SELLER'S INSURANCE REQUIREMENTS**

The Seller shall, at all times during the term of this Agreement, secure and maintain the following forms and amounts of insurance coverage during the life of this Agreement:

- *Worker's Compensation and Employer's Liability Insurance.* The Seller shall secure and maintain Worker's Compensation insurance for all employees employed including supervision, administration and management personnel. All such insurance shall comply with Florida Workers' Compensation Law. Coverage shall include a waiver or subrogation clause in favor of the Authority. Seller shall also be protected against claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a workers' compensation law.

The liability limits shall be not less than:

Workers' compensation	Statutory
Employers' liability	\$100,000 each occurrence \$500,000 Disease-Policy Limit \$100,000 Disease – Each Employee

- *Business Automobile and Public Liability Insurance.* The Seller shall secure and maintain Business Automobile and Public Liability insurance that shall be occurrence type, written in comprehensive form, and shall include Seller's owned,

non-owned and hired motor vehicle coverage. Seller shall secure and maintain other Public Liability insurance against all other Bodily Injury, Property Damage and Personal exposures. Additionally Seller shall be required to carry Public Liability coverage including: (1) On and Off Premises Operation Liability; (2) Personal Injury Liability Insurance; and (3) Independent Contractor Liability. All liability insurance shall be written on an occurrence basis and shall not be written on a claim-made basis.

The liability limits shall be not less than:

Business Automobile & Public Liability Insurance	\$1,000,000 combined single limit for each occurrence
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- *Commercial General Liability Insurance.* Seller shall secure and maintain Commercial General Liability Insurance that shall be occurrence type, written in comprehensive form, and shall protect Seller, and Authority as additional insureds, against claims arising from injuries, sickness, disease, or death of any person or damage to property arising out of performance of the Work. This policy must include a pollution liability coverage. The policy shall also include a per project aggregate limit endorsement, personal injury liability coverage, contractual liability coverage and products liability coverage, and coverage for blasting, explosion, collapse of buildings, and damage to underground property.

The liability limits shall be not less than:

Bodily injury and property damage	\$1,000,000 combined single limit for each occurrence
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All insurance policies, except the Workers' Compensation policy, shall be endorsed to include as additional insureds: the Authority, its directors, officers,

employees and agents. Such insurance policies shall include or be endorsed to include a cross liability clause so the additional insureds will be treated as if a separate policy were in existence and issued to them. If the additional insureds have other insurance, which might be applicable to any loss, the insurance required of Seller shall be considered primary, and all other insurance shall be considered excess. The cross liability clause does not increase the limits of liability or aggregate limits of the policy. Seller shall provide Authority with Certificates of Insurance for all policies at least ten (10) business days before commencing work. The required Certificates of Insurance not only shall name types of policies provided but also shall refer specifically to the Agreement. Failure of Seller to maintain said insurance coverage shall be deemed a breach of the terms of the Agreement and may, at Authority's sole and absolute discretion, result in the immediate termination of this Agreement. All of the policies of insurance required to be purchased and maintained (or the certificates or other evidence thereof) shall contain a provision or endorsement that the coverage afforded will not be cancelled, materially changed, or renewal refused, until at least thirty (30) days prior written notice has been given to the Authority and Seller by certified mail. Seller shall give notice to the Authority within twenty-four (24) hours of any oral or written notice of adverse change, non-renewal or cancellation. If the initial insurance expires prior to term of this Agreement, renewal Certificates of Insurance shall be furnished thirty (30) days prior to the date of their expiration. Failure of Authority to demand such certificates or other evidence of Seller's full compliance with these insurance requirements or failure of Authority to identify a deficiency in compliance from the evidence provided shall not be construed as a waiver of Seller's obligation to maintain such insurance.



## **ARTICLE 17. CONTRACT TERM**

Term of this contract is for one (1) year commencing on April 1, 2017 through March 31, 2018 and may be extended for two (2) one (1) year periods upon mutual written agreement of both parties.

Written agreement for each contract extension shall be approved no later than January 15 for the ensuing contract year. All Agreement terms, including ARTICLE 4. PRICES, shall remain the same through the term of any extension.

## **ARTICLE 18. CONTRACT DOCUMENT**

The Contract Documents that comprise the contract between the Authority and the Seller are attached hereto and made a part hereof and consists of the following:

- This Agreement;
- Bid Form, attached as Exhibit A;
- Invitation to Bid, attached as Exhibit B;
- Instruction to Bidders, attached as Exhibit C;
- Technical Specifications, including the Minimum Specifications for Water Treatment Chemicals, attached as Exhibit D;
- Safety Measures, attached as Exhibit E;
- Any addenda to the Bid Documents, if applicable, attached as Exhibit F; and
- Any written amendments or modification to this Agreement.

## **ARTICLE 19. TERMINATION**

This Agreement may be terminated by the Authority, without cause, upon seven (7) days written notice. In the event the Agreement is terminated by Authority, the

duties and obligations of Seller under the following provisions shall survive termination and continue in full force and effect:

1. ARTICLE 10. ALLOCATION OF RISK OF LOSS;
2. ARTICLE 12. ADDITIONAL REMEDIES OF THE AUTHORITY;
3. ARTICLE 13. EXCLUSIVE REMEDIES OF THE SELLER;
4. ARTICLE 19. TERMINATION;
5. ARTICLE 20. GOVERNING LAW; and
6. ARTICLE 24. INDEMNIFICATION.

#### **ARTICLE 20. GOVERNING LAW**

This Agreement shall be governed by and construed in accordance with the Uniform Commercial Code - Sales. Wherever the term "Uniform Commercial Code" is used, it shall be construed as meaning the Uniform Commercial Code as adopted in the State of Florida, as effective and in force on the date of this Agreement.

Should litigation be necessary to enforce any term or provision of this Agreement, or to collect any portion of the amount payable under this Agreement, then all litigation and collection expenses, witness fees, court costs and reasonable attorneys' fees shall be paid to the prevailing party. The venue of any litigation resulting out of this Agreement shall be in the county or circuit court, whichever is applicable, in and for Manatee County, Florida.

#### **ARTICLE 21. PARTIES BOUND**

This Agreement shall be binding on and inure to the benefit of its parties and their partners, successors, assigns and legal representatives when permitted by this Agreement.

## **ARTICLE 22. NON-EXCLUSIVITY**

This is not an exclusive contract. The Authority has the right to contract with other suppliers for the purchase of water treatment chemicals described in Exhibit B from one or more suppliers.

## **ARTICLE 23. MODIFICATION**

This Agreement may be modified only in writing and signed by both parties or their duly authorized agents.

## **ARTICLE 24. INDEMNIFICATION**

The Seller shall indemnify and save the Authority, its agents, servants and employees harmless from and against any claim, costs, including its attorney's fees, or cause of action of whatsoever kind or nature caused by negligent error, omission or act of the Seller, its agents, servants or employees in the performance of this Agreement.

## **ARTICLE 25. INDEPENDENT CONTRACTOR**

The Seller expressly warrants that it will not represent at any time or in any manner that the Seller or any of its agents, servants or employees are agents, servants or employees of the Authority. It is understood and agreed that the Seller is, and shall at all times remain as to the Authority, a wholly independent contractor and that the Seller's obligations to the Authority are solely as prescribed by this Agreement. It shall be the responsibility of the Seller to assure compliance with local, state or federal laws and regulations or other requirements as each may apply to the sale, delivery and goods purchased pursuant to this Agreement.

## **ARTICLE 26. SEVERABILITY**

In the event any one or more of the provisions contained in this Agreement shall for any reason be held invalid, illegal, or unenforceable in any respect, the invalidity,

illegality, or unenforceability shall not affect any other provision and this Agreement shall be construed as if the invalid, illegal, or unenforceable provision had never been contained in it.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

**IN WITNESS WHEREOF**, the parties hereto have executed this Agreement as of the date and year first written above.

**ATTEST:**

**Peace River Manasota  
Regional Water Supply Authority**

\_\_\_\_\_

\_\_\_\_\_  
Patrick J. Lehman, Executive Director

**WITNESS**

**SELLER:**

By: \_\_\_\_\_

\_\_\_\_\_

By: \_\_\_\_\_

\_\_\_\_\_  
Print Name & Title

**APPROVED AS TO FORM:**

\_\_\_\_\_  
Douglas Manson, General Counsel  
Peace River Manasota  
Regional Water Supply Authority

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**CONSENT AGENDA**  
**ITEM 5**

**Novation of Contract from MWH Americas, Inc. to  
Stantec Consulting Services, Inc.**

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**Recommended Action -**

**Motion** to approve and authorize Executive Director to execute novation of existing contract from MWH Americas, Inc. to Stantec Consulting Services, Inc.

The Authority currently has a continuing services contract with MWH Americas, Inc. for professional engineering, dated December 3, 2015. In late 2016 the Authority was formally notified that MWH Americas, Inc. had been acquired by Stantec Consulting Services, Inc. and will now operate under the Stantec name. The notification requested novation of the current MWH contract for professional engineering services to Stantec Consulting Services, Inc.

Correspondence from MWH Americas and Stantec pledges that the contract novation will not result in changes in personnel or interruption of continuity of service and that all contractual obligations will continue to be satisfied with this name change. Staff recommends Board approval for novation of current professional engineering services contract with MWH Americas, Inc. to Stantec Consulting Services, Inc., and authorization for the Executive Director to execute said novation on behalf of the Authority

**Budget Action – None**

**Attachments:**

Novation request and supporting materials from MWH Americas and Stantec

December 13, 2016

Peace River Manasota Regional Water Supply Authority  
9415 Town Center Parkway  
Lakewood Ranch, Florida 34202

**Attention: Mike Coates, P.G., Deputy Director**

**Reference: MSA dated February 2, 2011 with regard to Work Orders 16-05, 16-06, 16-07, 16-08, 17-01, 17-02 & 17-03**

Dear Mr. Coates

As you may be aware, on May 6<sup>th</sup>, 2016, MWH Global Inc., and its subsidiaries were acquired by Stantec Inc. As part of the on-going integration of the service offerings of the combined MWH and Stantec companies, effective January 1, 2017, MWH Americas, Inc., ("MWH") will be merged into its affiliated corporation Stantec Consulting Services Inc., ("Stantec") with Stantec as the surviving corporation. Stantec will maintain MWH's present office locations with no interruption in operations or client services, and all future projects and operations will be transitioned to the Stantec name in the upcoming months. The Stantec community unites approximately 22,000 employees working in over 400 locations across six continents. Our work—engineering, architecture, interior design, landscape architecture, surveying, environmental sciences, project management, and project economics, from initial project concept and planning through design, construction, and commissioning—begins at the intersection of community, creativity, and client relationships. With a long-term commitment to the people and places we serve, Stantec has the unique ability to connect to projects on a personal level and advance the quality of life in communities across the globe. Stantec trades on the TSX and the NYSE under the symbol STN. Visit us at [stantec.com](http://stantec.com) or find us on social media.

Stantec's vision includes working with the best clients on the best projects and providing the best services. Accordingly, please be assured that the continuity of your current project will be unaffected by this new arrangement. The caliber of the personnel currently working on your project will not change and, except for the assignment requested herein, no other aspect will be affected.

In this regard, we request your approval to assign all existing contracts in the name of MWH to Stantec. Kindly indicate your consent to the request for assignment by returning a duplicate copy of this letter, executed on behalf of Peace River Manasota Regional Water Supply Authority to Daniel Kloeckner

Sincerely,  
**MWH Americas, Inc.**  
Daniel Kloeckner  
Project Accountant

Enclosures:  
Client Letter.PDF  
MWH AR Cards.PDF  
SCSI W9.PDF

The undersigned hereby consents to the assignment of the Contract noted above to Stantec Consulting Services Inc. effective January 1, 2017.

**Peace River Manasota Regional Water Supply Authority**

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## Request for Taxpayer Identification Number and Certification

Give Form to the  
 requester. Do not  
 send to the IRS.

Print or type See Specific Instructions on page 2.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. <b>Stantec Consulting Services Inc.</b>		
	2 Business name/disregarded entity name, if different from above		
	3 Check appropriate box for federal tax classification; check only one of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶ _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i>	
	5 Address (number, street, and apt. or suite no.) <b>61 Commercial Street</b>	Requester's name and address (optional)	
	6 City, state, and ZIP code <b>Rochester NY 14614-1009</b>		
	7 List account number(s) here (optional)		

**Part I Taxpayer Identification Number (TIN)**

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number	
[ ] [ ] [ ] - [ ] [ ] [ ] - [ ] [ ] [ ]	OR
Employer identification number	
1 1 - 2 1 6 7 1 7 0	

**Part II Certification**

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification Instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

**Sign Here**      Signature of U.S. person ▶      Date ▶ **Nov 23, 2016**

**General Instructions**

Section references are to the Internal Revenue Code unless otherwise noted.  
 Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at [www.irs.gov/irb](http://www.irs.gov/irb).

**Purpose of Form**

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding?* on page 2.

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

# MWH, now part of Stantec!

  
22,000  
EMPLOYEES

  
400  
LOCATIONS

Every company has a story to tell. In May 2016 when we joined with Stantec, we pointed our story in an exciting new direction. Now, our story is beginning a new chapter.

Over the years, we've learned so much about our partners, helped countless communities, and achieved remarkable project success. We're committed to expanding our technical knowledge, and to building relationships with the people who put trust in us as clients and community residents. As one of our trusted clients, you'll see our story continue to unfold firsthand. We will build upon MWH's reputation as a leader in water for built infrastructure and the environment, and add to Stantec's expertise and over six decades of experience. As we continue to change and evolve through our work and creative collaborations, our visual identity is evolving as well.

Effective January 1, 2017, our offices in the United States will officially transition to the legal entity Stantec Consulting Services Inc. and Canada will officially transition to Stantec Consulting Ltd. In Q2 we will begin to transition to the Stantec brand in the US and Canada more formally, allowing us to finish our transition that began in the Spring of 2016.

Know that our relationship with you is our number one priority. That's why you will continue to see the same people doing business with you with the same goal: delivering the highest level of service while striving to exceed your expectations. You will receive more information from us in the coming months as we prepare for these exciting changes next year.

As industry leaders, both MWH and Stantec provide a full range of services to meet the challenges of our diverse client base. We truly believe that we are even better together. But, there's more to us than our services and our work; we're defined by what we stand for, what we believe, and why we do what we do. We're defined by community.

To us, community means everybody with a stake in the work we do, from the clients we collaborate with to the populations we reach. It includes the many areas we serve and the thousands of us working together to serve them. Currently, the Stantec community unites more than 22,000 specialists working in over 400 locations.

Through our partnership with you and our long-term commitment to the people and places we serve, we have the unique ability to connect to projects on a personal level, positively change the world we live in, and advance quality of life in communities across the globe. We're excited to share our story with you, and invite you to visit our website, [stantec.com](http://stantec.com), to celebrate with us the commitment we share to all our communities. It's an exciting future not only for us, but also for you, our trusted client partner.





**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**CONSENT AGENDA**  
**ITEM 6**

**Approve Work Order to Janicki Environmental for HBMP 2016 Comprehensive Summary Report**

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**Recommended Action -**

**Motion** to approve and authorize Executive Director to execute Work Order with Janicki Environmental for preparation of the HBMP 2016 Comprehensive Summary Report in an amount not to exceed \$157,320.

The Peace River Regional Water Supply Facility is required through our water use permit (#20010420) to implement a Hydrobiological Monitoring Program (HBMP) of the Lower Peace River / Upper Charlotte Harbor. The Authority's HBMP has been ongoing for more than 25 years now and is the largest and longest running source of water quality and biological data available for the Lower Peace River / Upper Charlotte Harbor.

The WUP requires that HBMP data reports be generated and submitted to SWFWMD annually, and that every 5-years a **Comprehensive Summary Report** must be developed and submitted to SWFWMD which considers the historical HBMP data, evaluates long-term trends in the system, provides an evaluation of pumping impacts, and recommends any appropriate modifications to improve the HBMP going forward. Preparation of that 5-year Comprehensive Summary Report is the subject of this Board Item. Janicki Environmental has been involved in the Authority's HBMP for many years and they also provided technical expertise to SWFWMD during establishment of the Lower Peace River Minimum Flows and Levels. Their experience and expertise make them uniquely qualified to conduct this work.

The proposed Work Order for preparation of the HBMP 2016 Comprehensive Summary Report would be completed under Janicki Environmental's existing continuing environmental services contract with the Authority at a cost not to exceed \$157,320. The Work Order, scope and fee information, as well as the outline for the Comprehensive Summary Report are attached. Staff recommends Board approval and authorization for the Executive Director to execute this Work Order.

**Budget Action** – None. Funds were included in the 2017 Budget for this work.

**Attachments:**

Work Order 17-05 for Preparation of the 2016 HBMP Comprehensive Summary Report

## **GENERAL ENVIRONMENTAL SERVICES**

### **JANICKI ENVIRONMENTAL INC. WORK ORDER No. 17-05**

#### **Peace River Manasota Regional Water Supply Authority**

#### **HBMP 2016 Comprehensive Summary Report**

### **INTRODUCTION**

This Work Order No. 17-05 "HBMP 2016 Comprehensive Summary Report" is conducted pursuant to the Agreement for General Environmental Services entered into on December 2, 2015, between the Peace River Manasota Regional Water Supply Authority (Authority) and Janicki Environmental Inc. (Consultant).

### **SCOPE OF WORK**

The Peace River Facility Water Use Permit requires that Comprehensive Summary Reports, which summarize and statistically analyze the Hydrobiological Monitoring Program (HBMP) data collected to date, be submitted to the Southwest Florida Water Management District (District) at approximately 5-year intervals. Atkins (formerly PBS&J) staff has managed the HBMP for the Authority since the 1990's, and have prepared the most recent 2002, 2006 and 2011 Comprehensive Summary Reports, following extensive coordination with both the District and Authority.

Using these previously submitted documents as a basis, the attached detailed outline of the proposed report for the 2016 Comprehensive Report was prepared. This outline also incorporates comments from Authority staff.

The following briefly summarizes both the major tasks as well as estimated cost for completion.

- Task 1. Gather and convert data into SAS data sets, prepare an executive summary and prepare report introduction and summary - \$15,130.
- Task 2. Provide summaries of recent Peace River Watershed/Charlotte Harbor Reports and primary conclusions - \$27,420.
- Task 3. Provide status and trends in regional rainfall and flows, Facility withdrawals and HBMP water quality indicators - \$36,970.
- Task 4. Assessment of long-term trends and changes in water quality in the Peace River Watershed, influences of increasing conductivity, and salinity/flow relationships at continuous recorders - \$34,070.

- Task 5. Evaluation of existing withdrawal schedule - \$9,190.
- Task 6. Evaluation of adverse impacts and appropriate indicators - \$5,120.
- Task 7. Proposed monitoring design modifications - \$3,240.
- Task 8. Prepare draft outline and meet with Authority staff to finalize Report outline, prepare draft document for review by Authority staff, review comments and implement changes as necessary, provide final internal QA/QC review, prepare final linked CD version of the completed report, prepare final printed copy and CD versions of completed report - \$26,180.

### **Deliverables**

Provide monthly invoices

Provide printed and electronic materials as requested by the Authority and shown in the Consultant's proposal dated March 24, 2017.

### **COMPENSATION**

The Authority agrees to compensate Consultant for this scope of services on a time and materials basis for a not-to-exceed total cost of \$157,320 as per the Consultant's proposal dated March 24, 2017 which is referenced here and made a part of this work order. Consultant's invoices will be submitted monthly showing total authorized cost, total for current invoice, total for prior invoices and balance remaining. Appropriate documentation justifying reimbursable expenses and daily labor will also be provided as supporting documentation to the Consultant's invoices to the Authority.

### **SCHEDULE**

Consultant services will commence upon receiving the Notice-to-Proceed and will be performed in a timely manner and as defined in the consultant's proposal dated March 24, 2017.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the day and year last written below

PEACE RIVERMANASOTA REGIONAL  
WATER SUPPLY AUTHORITY

\_\_\_\_\_  
Patrick J. Lehman, P.E.  
Executive Director

\_\_\_\_\_  
Date

JANICKI ENVIRONMENTAL INC.

\_\_\_\_\_  
Tony Janicki Ph.D.  
President

\_\_\_\_\_  
Date



March 24, 2017

Mr. Samuel S. Stone  
Land and Environmental Services Manager  
Peace River Manasota Regional Water Supply Authority  
C/O Peace River Regional Water Supply Facility  
8998 SW County Road 769  
Arcadia, Florida 34269

**Subject: *Preparation of 2016 HBMP Comprehensive Summary Report, as required by the Peace River Facility Water Use Permit No. 20010420***

Dear Sam:

As you are aware, the Peace River Facility Water Use Permit requires that Comprehensive Summary Reports, which summarize and statistically analyze the Hydrobiological Monitoring Program (HBMP) data collected to date, be submitted to the Southwest Florida Water Management District (District) at approximately 5-year intervals. Atkins (formerly PBS&J) staff has managed the HBMP for the Authority since the 1990's, and have prepared the most recent 2002, 2006 and 2011 Comprehensive Summary Reports, following extensive coordination with both the District and Authority.

Using these previously submitted documents as a basis, the attached detailed outline of the proposed report for the 2016 Comprehensive Report was prepared. This outline also incorporates comments from Authority staff. A detailed breakdown of Janicki Environmental staff hours (by job classification) has also been submitted detailing the expected level of effort required for each task element.

The following briefly summarizes both the major tasks as well as estimated cost for completion.

- Task 1. Gather and convert data into SAS data sets, prepare an executive summary and prepare report introduction and summary - \$15,130.
- Task 2. Provide summaries of recent Peace River Watershed/Charlotte Harbor Reports and primary conclusions - \$27,420.
- Task 3. Provide status and trends in regional rainfall and flows, Facility withdrawals and HBMP water quality indicators - \$36,970.
- Task 4. Assessment of long-term trends and changes in water quality in the Peace River Watershed, influences of increasing conductivity, and salinity/flow relationships at continuous recorders - \$34,070.
- Task 5. Evaluation of existing withdrawal schedule - \$9,190.



- Task 6. Evaluation of adverse impacts and appropriate indicators - \$5,120.
- Task 7. Proposed monitoring design modifications - \$3,240.
- Task 8. Prepare draft outline and meet with Authority staff to finalize Report outline, prepare draft document for review by Authority staff, review comments and implement changes as necessary, provide final internal QA/QC review, prepare final linked CD version of the completed report, prepare final printed copy and CD versions of completed report - \$26,180.

The total estimated cost for preparing the 2016 Comprehensive Summary Report for the Peace River Hydrobiological Monitoring Program would be based on time and materials for a not to exceed total cost of \$157,320.

Please let me know if you should have any questions or if I can supply any additional supporting information.

Respectfully,

A handwritten signature in black ink, appearing to read 'Anthony Janicki', is written over a horizontal line.

Anthony Janicki, Ph.D.  
President

# Peace River Manasota Regional Water Supply Authority

## HBMP 2016 Comprehensive Summary Report

*(Scope of Work - March 24, 2017)*

### Summary

- This introductory section will provide a ten to fifteen page summary of the major findings, conclusions and recommendations of each of the following chapters.
- In addition, as appropriate, bullet summaries of major conclusions will be presented at the end of each chapter.

### Chapter 1 – Introduction

The purpose of this section will be to provide a brief overview of the general permit history and conditions, the study elements within the HBMP, and summarize the report's organization and primary objectives.

1. Purpose of Report.
2. Summary of Facility's permit history and conditions (updated information from that included in previous Annual Data Reports and the *2006 HBMP Comprehensive Summary Report*). Using available aerials, a visual history and timeline will be included.
3. Provide updated discussion of long-term water demand and supply projection needs based on information presented in Authority and SWFWMD reports and studies. This would include brief discussions of Authority's Master Water Supply Planning, and ongoing feasibility and future alternative source studies. The section will also include tables and appropriate graphics summarizing historic and projected Facility demands.
4. Summarize HBMP program elements (update of information in *2011 HBMP Comprehensive Summary Report* and subsequent *Annual Data Reports*).
  - a. Overview of historic chronology of HBMP water quality and biological monitoring programs and updated summary table of program elements changes and/or deletions,
  - b. Summary of current HBMP monitoring programs
    - Moving, isohaline based station monitoring
    - Fixed stations monitoring program elements
    - Chlorophyll transect sampling
    - USGS and Authority continuous recorders data collections

5. Outline the conceptual HBMP process for evaluating key water quality and biological estuarine components, and assessing potential adverse estuarine impacts from current permitted withdrawals.
6. Summary overview of report organization and primary objectives.

## **Chapter 2 – Summaries of Recent HBMP Reports and Primary Conclusions**

The *2002 Peace River Comprehensive Summary Report* (finalized in 2004) provided brief overviews of major studies related to the lower Peace River/upper Charlotte Harbor estuary system completed between 1996 and 2003.

The *2006 Peace River Comprehensive Summary Report* (finalized in 2009) provided brief overviews of major studies related to the lower Peace River/upper Charlotte Harbor estuary system completed between 2002 and 2007.

The *2011 Peace River Comprehensive Summary Report* (finalized in 2013) provided additional brief overviews of major studies related to the lower Peace River/upper Charlotte Harbor estuary system completed between 2006 and 2011, as well as some earlier reports not previously summarized.

These summaries presented in previous HBMP Comprehensive Summary Reports will be included for historic reference in an appendix at the end of this 2016 document.

Chapter 2 will provide brief (3-5 page) overviews of major studies and reports related to the Peace River watershed, lower Peace River and upper Charlotte Harbor that have been finalized since the previous Comprehensive Summary Reports. The primary objective and focus of this chapter will be to provide concise overviews of the purpose and major conclusions of each of these studies. Summaries will be included for the following reports/studies (and other documents as they are identified):

1. *The Charlotte Harbor Seven-County Watershed Report* (CHNEP 2011)
2. *Proposed Numeric Nutrient Criteria for the Charlotte Harbor National Estuary Program Estuarine System* (Janicki Environmental 2011)
3. *Charlotte Harbor National Estuary Program Oyster Habitat Restoration Plan* (Boswell et al 2012)
4. *Status Report for the Southern Water Use Caution Area Specific Conductance Reconnaissance Network* (SWFWMD 2012)
5. *2012 HBMP Annual Data Report* (Atkins 2013)
6. *Results of the Florida Department of Environmental Protection, Charlotte Harbor Aquatic Preserves' Seagrass Monitoring Program from 1999-2009* (Brown et al 2013, Florida Scientist)
7. *Freshwater Fish Communities and Habitat Use in the Peace River Florida* (Call et al 2013, Florida Scientist)



8. *Water Quality Data Analysis Report for the Charlotte Harbor National Estuary Program* (Janicki Environmental 2013)
9. *Fish Assemblages in the Oligohaline Stretch of a Southwest Florida River during Periods of Extreme Freshwater Inflow Variation* (Stevens et al 2013 Transactions of the American Fisheries Society)
10. *The Effects of Environmental Disturbance on the Abundance of Two Recreationally-Important Fishes in a Subtropical Floodplain River* (Blewett and Stevens 2013, Florida Scientist)
11. *A Water Clarity Evaluation and Tracking Tool for the Estuarine Waters of Lemon Bay, Charlotte Harbor and Estero Bay, Florida* (Wessel et al 2013, Florida Scientist)
12. *Retrospective Analysis and Sea Level Rise Modeling of Coastal Habitat Change in Charlotte Harbor to Identify Restoration and Adaptation Priorities* (Geselbacht et al 2013, Florida Scientist)
13. *2013 HBMP Annual Data Report* (Atkins 2014)
14. *The Optical Model Spectral Validation and Annual Water Clarity Reporting Tool: Final Report* (Dixon and Wessel 2014)
15. *An Analysis of the Relationships of Freshwater Inflow and Nutrient Loading with Chlorophyll Values and Primary Production Rates in the Lower Peace River* (Atkins 2014)
16. *Seasonal Differences and Responses to a Tropical Storm Reflected in Diatom Assemblage Changes in a Southwest Florida Watershed* (Nodine and Gaiser 2015 Ecological Indicators)
17. *2012 Annual Report Horse Creek Stewardship Program* (Cardno 2015)
18. *2015 Regional Water Supply Plan Southern Planning Region* (SWFWMD 2015)
19. *City of Punta Gorda Shell Creek HBMP Year Five Comprehensive Summary Report* (Atkins expected 2017)
20. *Integrated Regional Water Supply Plan 2015* (Atkins et al 2015)
21. *2014 HBMP Annual Data Report* (Janicki Environmental 2016)
22. *2015 HBMP Annual Data Report* (Janicki Environmental 2016)
23. *A spectral optical model and updated water clarity reporting tool for Charlotte Harbor Seagrasses.* (Dixon and Wessel 2016, Florida Scientist)
24. *Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criterion (62-302.532 FAC)*
25. *2016 HBMP Annual Data Report* (Janicki Environmental expected 2017)

### **Chapter 3 – Status and Trends in Regional Rainfall and Flows, and Facility Withdrawals**

The primary objective of this chapter will be to provide updated graphical plots and trend tests of rainfall and flows in the Peace and Myakka River Watersheds. Analyses and comparisons will be conducted over specific intervals including:

1. The long-term period of record for each USGS gaging site
2. The period of HBMP monitoring (1976-2016)
3. The three recent phases (1932-1969, 1970-1994, 1995-2016) of the proposed Atlantic Multidecadal Oscillation (AMO)

Summary results of these analyses and comparisons will be provided both graphically and as summary tables. Recent and historical unusual occurrences (such as extended droughts and unusually wet intervals) will be documented and compared to the long-term average statistical characteristics at each gaging location.

**Rainfall** – four long-term NOAA gages will be used to determine recent and historic natural variability in rainfall patterns within the Peace and Myakka River watersheds from long-term available data at four monitoring sites. Monthly total rainfall will be plotted over time and as the cumulative difference from the long-term mean in order to assess potential trends.

- Upper Watershed (Bartow)
- Mid Watershed (Arcadia)
- Lower Watershed (Punta Gorda)
- Myakka near Sarasota

**Flows** – data from the long-term U.S. Geological Survey (USGS) network of flow monitoring gaging sites in the Peace and Myakka watersheds will be used to evaluate and compare recent and historic patterns in flows.

#### **Peace River Watershed**

- 2294650 Peace River at Bartow
- 2294898 Peace River at Fort Meade
- 2295420 Payne Creek near Bowling Green
- 2295637 Peace River at Zolfo Springs
- 2296500 Charlie Creek near Gardner
- 2296750 Peace River at Arcadia
- 2297100 Joshua Creek at Nocatee
- 2297310 Horse Creek near Arcadia
- 2298123 Prairie Creek near Fort Ogden
- 2298202 Shell Creek near Punta Gorda
- Sum of Peace at Arcadia, Horse Creek and Joshua Creek
- Sum of Peace at Arcadia, Horse Creek, Joshua Creek and Shell Creek

#### **Myakka River Watershed**

- 2298830 Myakka River near Sarasota

**Time Series Analyses of Variability in USGS Gaged Flows** – time-series plots and Seasonal Kendall Tau trend test will be run for the period of record and the period 1976-2016 at each gauging site for a variety of statistical flow characteristics in order to determine potential long-term changes in flow patterns from both natural and anthropogenic influences.

- P0 Percentile – the minimum or lowest monthly value
- P10 Percentile – low flow value that was exceeded ninety percent of the time
- P25 Percentile – low flow value that was exceeded twenty-five percent of the time

- P50 Percentile – or median value, half of the monthly values were both greater and less
- P75 Percentile – low flow value that was exceeded Seventy-five percent of the time
- P90 Percentile – high flow value that was exceeded only ten percent of the time
- P100 Percentile – the maximum or highest monthly value
- Mean- this average monthly value is usually above the median when evaluating flow data

In addition, comparisons among the USGS gaging sites (and sums) above will be determined using a series of Seasonal Kendall Tau trend test using standardized five-year intervals, such that the number of intervals tested for each gage differed depending on the length of the gage's particular period-of-record. Comparative differences will be determined for three different flow statistics for each gage site.

- The low flow P10 Percentile, which is exceeded ninety percent of the time
- The median flow P50 Percentile, which is greater and less than half the monthly flows
- The high flow P90 Percentile, which is exceeded only ten percent of the time

### **Seasonal Differences**

Trend tests will also be conducted to determine long-term patterns in mean and median flows for three seasons (July-October, November-February, and March- June).

### **Differences in Flows among AMO Periods**

The same three flow percentiles will be used to determine potential differences in flows at the selected USGS gages for the 1932-1969, 1970-1994, and 1995-2016 time periods.

**Rainfall/flow interactions** – cumulative single mass plots of rainfall over time and flows over time, as well as cumulative rainfall versus flow plots (double mass) will be used to assess both historic natural and anthropogenic changes in flows that have historically occurred within the Peace River Watershed. Analyses will be conducted to determine and depict both seasonal and long-term differences between wet & dry periods.

**Withdrawals** – historical changes in withdrawal patterns will be evaluated relative to freshwater flows at Arcadia, at the Peace River Facility, and at the US 41 Bridge. A number of alternative graphical methods will be used to show both the timing and relative seasonal magnitude of facility withdrawals.

- Plot withdrawals versus time
- Plot withdrawals as percent of flow versus time
- Plot withdrawals versus flow
- Sum of Peace at Arcadia, Horse Creek and Joshua Creek before and after withdrawals
- Sum of Peace at Arcadia, Horse Creek, Joshua Creek and Shell Creek before and after withdrawals

## **Chapter 4 – Status and Trends of Hydrobiological Water Quality Indicators in the Lower Peace River/Upper Charlotte Harbor Estuarine System**

**Fixed HBMP Water Quality Monitoring Sites** – long-term patterns, potentially statistically significant trends, and differences relative to flow conditions will be evaluated at the five water quality locations along the HBMP monitoring transect (River Kilometers -2.4, 6.6, 15.5, 23.6 and 30.4) for a number of key selected surface water quality variables.

- Salinity/Conductivity
- Color
- TSS
- Silica
- NO<sub>2</sub>-NO<sub>3</sub>
- NH<sub>3</sub>-NH<sub>4</sub>
- TKN
- OP
- Chlorophyll a

Presented graphical and statistical analyses will include:

- a. Time series plots for each of these selected water quality parameters will be presented for each of the five monitoring locations. Statistical methods will be utilized to test for differences between the two periods (1976-1989 and 1997-2016) of available data.
- b. Univariate plots will be used to compare and contrast each water quality parameter by river kilometer under seven differing levels of Peace River at Arcadia based flows.
  - All flows
  - Very Low (0 – 90 cfs) = less than Q10
  - Low (90 – 160 cfs) = Q10 to Q25
  - Normal Low (160-360 cfs) = Q25 to Q50
  - Normal High (360-920 cfs) = Q50 to Q75
  - High (920-2100 cfs) = Q75 to Q90
  - Very High (above 2100 cfs) = greater than Q90
- c. Plots and statistical correlations will be used to analyze surface values for each site versus each of the above flow categories.

**Moving Isohaline HBMP Monitoring Locations** - key selected water quality variables at the monthly moving stations will be used to evaluate long-term patterns, potentially statistically significant trends, and differences relative to flow conditions at the four isohaline based salinity monitoring locations along the HBMP monitoring transect (0, 6, 16 and 20 psu) for the same key selected surface water quality variables used above.

- Isohaline Location (River Kilometer)

- Color
- TSS
- Silica
- NO<sub>2</sub>-NO<sub>3</sub>
- NH<sub>3</sub>-NH<sub>4</sub>
- TKN
- OP
- Chlorophyll a

Presented graphical and statistical analyses will include:

- a. Time series plots for each of these selected water quality parameters will be presented for each of the four moving isohaline monitoring locations. Statistical methods will be utilized to test for patterns and trends over the long-term 1984-2016 interval.
- b. Univariate plots will be used to compare and contrast each water quality parameter by isohaline under seven differing levels of Peace River flows, based on the combined long-term average total gaged flows upstream of the Facility (Peace at Arcadia, Horse Creek and Joshua Creek).
  - All flows
  - Very Low = less than Q10
  - Low = Q10 to Q25
  - Normal Low = Q25 to Q50
  - Normal High = Q50 to Q75
  - High = Q75 to Q90
  - Very High = greater than Q90

## **Chapter 5 – Assessment of the Influence of Long Term and Periodic Change in Upstream Watershed Water Quality and Potential Influences of Facility Water Supply**

The 2007 *Peace River Cumulative Impact Study* (CIS) identified anthropogenic derived changes in water quality in the Peace River Watershed. More recently, the Authority and its HBMP monitoring program have identified changes in water linked to the permitted closure of phosphate stacks in the Whidden Creek subbasin (*2010 HBMP Data Report*). The primary objective of this chapter will be to determine, summarize and evaluate potential water quality changes and trends in the Peace River basin watershed upstream of the Facility, and assess possible influence such changes may have on either treatment or storage of water in the reservoirs (nutrient changes leading to increased potential for algal blooms).

Appropriate available period-of-record data will be gathered from the following sources to assess long-term patterns (plots) and changes (trends).

1. USGS ambient monitoring programs
2. District background monitoring program
3. FDEP STORET
4. Recent Authority watershed monitoring

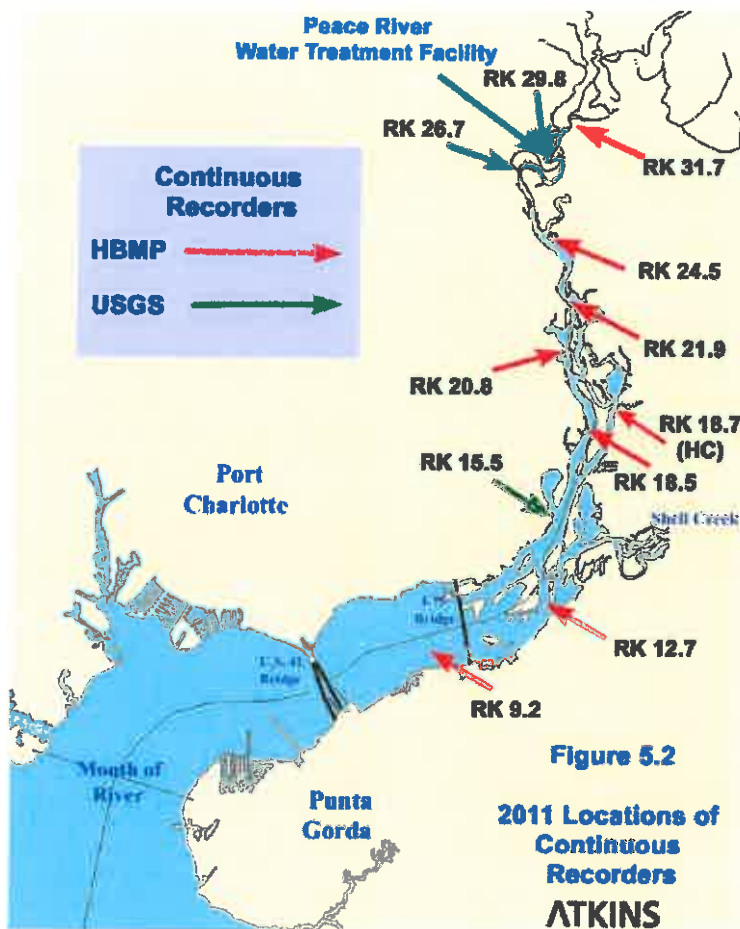
FDEP and District staff will be consulted in order to determine known activities and programs that might be expected to have both positive and potential negative influences on further upstream water quality. Projects will include those associated with the Winter Haven Chain of Lakes, Lake Hancock, and ongoing Peace Creek Restoration activities, as well as future phosphate facility closures in the upper watershed.

## **Chapter 6 – Influences of Increasing Conductivity in the Lower Peace River Watershed**

The 2007 *Peace River Cumulative Impact Study (CIS)* and the 2006 *HBMP Comprehensive Summary Report* identified anthropogenic increasing trends in the dry season conductivity of many of the major tributaries in the lower Peace River Watershed. The primary objective of this chapter will be to further evaluate these trends beyond the period covered by these reports (2004, and 2006 respectively) and determine the duration and potential magnitude such increases may be having on the dry season conductivity of lower Peace River immediately upstream of the Facility's point of withdrawal.

- Patterns and trends in conductivity will be evaluated at the Peace River at Arcadia and the major downstream tributaries (Horse and Joshua Creeks).
- Potential dry season trends in conductivity immediately upstream of the Facility using fixed station and continuous recorder monitoring data will be evaluated and summarized.
- The results of these analyses will be evaluated relative to potential influences on Facility operations.

## Chapter 7 – Salinity/Flow/Withdrawal Relationships at Continuous Recorders



Previous HBMP Mid-term (year three) and Summary (year five) Reports have developed both fixed location and spatial statistical models, which were used as predictive tools in assessing the magnitude of potential salinity changes due to both historic and potential maximum freshwater withdrawals under the existing permit conditions. The primary objective of this chapter will be to determine statistical relationships between flows, tide stage, and withdrawals at both the long-term USGS continuous gages, and the HBMP continuous recorders. The results of these analyses will be compared and contrasted with the results of other previous salinity models, thus setting the stage for Chapter 8.

- General characteristics of the data will be summarized describing differences among the data from the continuous recorders,

including:

1. Period-of-record
  2. Tidal variations
  3. Frequency distribution of salinity values (ranges of daily and seasonal variability under differing flow conditions)
- Updated and new statistical models of surface and near bottom salinity for each of the three USGS continuous gages (freshwater inflows, stage, and withdrawals) will be developed.
  - Updated and new statistical models of surface salinity at each of the eight HBMP continuous recorder locations using (freshwater inflows, estimated stage, and withdrawals) will be developed.
  - These models will then be used to determine the effects of the predicted magnitude of historic permitted withdrawals. (The potential differences under the District's adopted minimum flows and levels (MFL) for the lower Peace River will be assessed in Chapter 8).

- These results will then be compared with previous “spatial” and “fixed” salinity/flow model results from HBMP and District statistical modeling efforts.

## **Chapter 8 – Evaluation of Existing Withdrawal Schedule and Assessment of Effectiveness in Limiting Potential Impacts**

The primary objective of the analyses presented in this chapter will be to summarize and contrast the results of the recent hydrodynamic model developed by the District for use in establishing minimum flows and levels, with those presented above in Chapter 7.

Existing empirical salinity models will be used to assess the effectiveness of the Authority's withdrawal schedule for preventing impacts to the natural resources of the Lower Peace River/Upper Charlotte Harbor estuary. These results will be compared to withdrawal limits allowed by recently modified WUP diversions schedule.

Data will be summarized using comparative univariate plots of actual field data, as well as that predicted under both the recent and newest permitted water withdrawal schedules. Summary tables will be included.

## **Chapter 9 – Evaluation of the Presence or Absence of Adverse Impacts and Appropriate Indicators**

The objectives of this section will be to provide a generalized discussion of the appropriate measurable criteria that can be linked to freshwater withdrawals and provide reasonable assurance for determining the potential for, or occurrence of, environmental change. The District permit condition specifically calls for the HBMP to assess if Facility withdrawals are adversely impacting the natural estuarine resources of the lower river. The primary objective of this chapter will be to describe the methodology and criteria used by the HBMP to determine if previous, existing and permitted Facility withdrawals have or are likely to cause significant environmental changes to the lower Peace River/upper Charlotte Harbor estuarine system.

A corollary discussion would be the development of other potential indicators linked to freshwater inflows that would provide an overall assessment of the long-term health of the Lower Peace River/Upper Charlotte Harbor estuary.

- Update description of the processes for evaluating key water quality and biological estuarine indicators and determining potential significant environmental changes associated with both current and proposed future permitted withdrawals.
- Update discussion of management alternatives for addressing potential changes in status and trends in monitored HBMP program elements.
- Discuss and compare the findings of alternative methodologies utilized to model both historic and potential future effects of withdrawals on estuarine salinity structure.



- Expand discussion of observed changes in HBMP indicators to periods of low flows.
- Summarize the observed occurrence of (or lack of) significant environmental changes due to Facility withdrawals.

## **Chapter 10 – Proposed Monitoring Design Modifications to the Existing Long-term HBMP Elements**

Based on the overall conclusions reached in the preceding chapters, this section will extend the discussions raised in previous Summary Reports, and recommend possible reductions and/or eliminations of specific parameters and elements within the current HBMP, as well as the potential implementation of new long-term study elements.

- Discuss criteria for including variables in the monitoring program.
- Recommend reduction/elimination/enhancement of HBMP elements based on previous analyses.
- Outline goals and scope of HBMP Scientific Panel suggested new HBMP study elements and/or special studies.
- Discuss possible future methods to enhance evaluation of potential changes in the health of the lower river estuarine system, used to assess the magnitude of observed changes due to Facility withdrawals relative to natural seasonal and long-term variability.

## **Chapter 11 – References**

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**CONSENT AGENDA**  
**ITEM 7**

**Ratify Authorization for Emergency Repair of ASR-To-Raw Water Interconnect Piping**

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**Recommended Action -**

**Motion** to ratify the Executive Directors authorization for emergency repair of the ASR-to-Raw Water Interconnect Piping at the Peace River Facility for an amount not to exceed \$225,000.

The ASR-to-Raw water interconnect piping at the Peace River Facility enables conveyance of water pumped from ASR Wellfield 2 directly to Reservoir 2 as needed to meet members demands. In early January a routine pumping event associated with water quality sampling of ASR Wellfield 2 revealed that the above-ground ASR-to-Raw water interconnect assembly showed significant vertical movement and the pipe began leaking upstream of the assembly. Additionally during the event the interconnect assembly moved forward and vertically and the existing concrete slab and pipe supports were significantly damaged. This event indicated potential failure of below ground fittings (installed in 2002) near the interconnect assembly.

One of the Authority's as-needed contractors (Forsberg Construction of Punta Gorda) was called to the site to investigate under Work Order 17-02 for a not-to-exceed cost of \$25,000. Excavation at the site revealed that a 36-inch diameter, 45 degree fitting immediately upstream of the interconnect had failed. Because demand and supply projections indicated that raw water storage conditions would be at a point by early April where pumping from ASR Wellfield No. 2 into Reservoir No 2 would be necessary, it was deemed critical to effect immediate repair of the interconnect. That repair included new mechanically restrained fittings, replacement of a section of 36-inch diameter pipe, installation of a concrete thrust block to stabilize the interconnect and replacement of the damaged slab and pipe cradles for the interconnect. The repair effort was successfully completed and tested and the interconnect is scheduled to be placed back in service on April 10<sup>th</sup>.

Total investigation, construction and material costs are not expected to exceed \$225,000. The Authority's procurement policy requires Board approval for as-needed construction Work Orders over \$100,000. Because this initially began as an investigation, but became an emergency repair it was approved by the Executive Director as an emergency in accordance with the procurement policy and a request for Board ratification to be made at the next available Board meeting. Staff recommendation is Board ratification of the Executive Directors authorization for Work Order 17-02R to Forsberg Construction in the amount not to exceed \$225,000.

**Budget Action:** None

**Attachments:**

Tab A Work Order Nos. 17-02 & 17-02R  
Tab B Photographs of the Findings & Repair

**TAB A**  
**Work Order Nos. 17-02 & 17-02R**

17-02

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
AS-NEEDED CONTINUING CONSTRUCTION SERVICES CONTRACT  
WORK ORDER COVER SHEET (page 1 of 2)**

**CONTRACTOR** Forsberg Construction Co.  
**WORK ORDER No.** 17-02  
**WORK ORDER NAME** ASR to Raw Interconnect-Field Investigation  
**ACCOUNT NUMBER** TBD

**JUSTIFICATION OF NEED:**

ASR to Raw Water Interconnect Assembly at PRF as been observed leaking. Contractor shall perform field investigation at ASR to Raw Water Interconnect Assembly in excess buried upstream and downstream piping to determine source of pipe leaks and identify other damage to the assembly. Contractor shall coordinate with Authority in developing a repair strategy.

**STATEMENT OF FUNDING ADEQUACY**

There are adequate funds in the RAR account for this work order.

TIME AND COST SUMMARY	
<b>WORK ORDER VALUE OR COST CEILING</b>	
<b>COMPENSATION BASIS</b>	
LUMP SUM	\$25,000
x TIME AND MATERIALS	
Owners Allowance	
<b>ALLOWABLE DURATION:</b>	<u>30</u> DAYS line A
<b>PROJECTED NOTICE TO PROCEED:</b>	<u>2/20/2017</u> line B
<b>PROJECTED COMPLETION DEADLINE:</b>	

**APPROVED BY CONTRACTOR**

Gregg Marsh [Signature] 2-21-17  
 Print Name Signature Date

**RECOMMENDED FOR APPROVAL BY AUTHORITY PROJECT MANAGER**

Ford Ritz [Signature] 2/17/2017  
 Print Name Signature Date

**APPROVED BY AUTHORITY**

Patrick J. Lehman [Signature] 2-17-17  
 Print Name Signature Date

**NOTES:**

1 This work order is developed pursuant to the Agreement for Construction Contracting Services entered into on October 3, 2012 between the Peace River Manasota Regional Water Supply Authority and Heifetz Construction Company.

2 The various signatories to this agreement confer their affirmative assent that they have authority to commit to the agreement on behalf of their employer, have the expertise and capability to complete the work in question, funds are available to pay for services rendered and all parties are in agreement as to: scope of work defined, the value of the compensation indicated and the schedule duration shown.

see page 2 for Attachments which constitute the basis for the Work Order as well as the list of designated Points-of-Contact for this effort

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
AS-NEEDED CONTINUING CONSTRUCTION SERVICES CONTRACT  
WORK ORDER COVER SHEET (page 2 of 2)**

**ATTACHMENTS**

The following attachments comprise the Scope of Work including any pertinent schedule requirements, deliverables, functional specifications, material specifications, permit needs, warranty requirements and any other data pertinent to development of the cost and duration for the construction effort described. Minor details (such as the color of paint pigments) which have no effect on price may be negotiated during the course of the work. The undersigned agree and concur that these attachments adequately convey the intent of the construction effort as understood by both the Contractor and Authority and that there are no known disagreements as to scope, cost or duration. Further, Contractor has factored in reasonable expectations for weather delays as might normally be expected for the season. Finally, any change to scope which results in a cost or schedule impact effort will comprise a need to amend the work order value and/or duration by increasing or decreasing value and/or duration as appropriate.

**A** E-Mails from PRIMRWSA to Forberg re: ASR to Raw Water Interconnect - Field Investigation.

**B**

**C**

**D**

**E**

**POINTS OF CONTACT FOR THIS WORK ORDER**

**AUTHORITY'S PROJECT MANAGER**

Ford Ritz, email = [fritz@regionalwater.org](mailto:fritz@regionalwater.org)  
office (863) 491-7587; cell (813) 394-1827

**AUTHORITY'S CONSTRUCTION MANAGER**

Tom Dobbs email = [tdobbs@regionalwater.org](mailto:tdobbs@regionalwater.org)  
office (863) 491-7587  
cell (941) 456-0115

**CONTRACTOR'S Project Manager**

[Gregg Marsh email = gregg@forbergconstruction.com](mailto:gregg@forbergconstruction.com) office [941-637-8500](tel:941-637-8500)

17-02R

PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
 AS-NEEDED CONTINUING CONSTRUCTION SERVICES CONTRACT  
 WORK ORDER COVER SHEET (page 1 of 2)

CONTRACTOR Forsberg Construction Inc.  
 WORK ORDER No. 17-02R  
 WORK ORDER NAME ASR to Raw Interconnect Investigation/Emergency Repair  
 ACCOUNT NUMBER TBD

**JUSTIFICATION OF NEED:**  
 As a result of the WO 17-02, investigation identifying the source of the subsurface pipe leakage and closure to the ASR-to-Raw interconnect assembly the Contractor shall continue and complete the emergency repair of the ASR to Raw Interconnect Assembly on a time and material basis so it can be returned to service on or around \_\_\_\_\_.

**STATEMENT OF FUNDING ADEQUACY**  
 Funds are adequate funds in the BAR account for this Work Order \_\_\_\_\_.

TIME AND COST SUMMARY		
WORK ORDER VALUE OR COST CEILING		\$325,000
COMPENSATION BASIS		
<input type="checkbox"/> LUMP SUM		
<input checked="" type="checkbox"/> TIME AND MATERIALS		
<input type="checkbox"/> OTHER (DEFINE HERE AS NEEDED)		
ALLOWABLE DURATION:	80	DAYS line A
PROJECTED NOTICE TO PROCEED:	2/20/2017	line B
PROJECTED COMPLETION DEADLINE:	4/10/2017	lines A + B

**APPROVED BY CONTRACTOR**

Gregg Marsh  
 Print Name  
 \_\_\_\_\_  
 Signature  
 \_\_\_\_\_  
 Date

**RECOMMENDED FOR APPROVAL BY AUTHORITY PROJECT MANAGER**

Ford Ritz  
 Print Name  
 \_\_\_\_\_  
 Signature  
 \_\_\_\_\_  
 Date

**APPROVED BY AUTHORITY**

Patrick J. Lehman  
 Print Name  
 \_\_\_\_\_  
 Signature  
 \_\_\_\_\_  
 Date

- NOTES:**
- This work order is developed pursuant to the Agreement for Construction Contracting Services entered into on October 3, 2012 between the Peace River Manasota Regional Water Supply Authority and Forsberg Construction Inc..
  - The various signatories to this agreement confer their affirmative assent that they have authority to commit to the agreement on behalf of their employer, have the expertise and capability to complete the work in question, funds are available to pay for services rendered and all parties are in agreement as to: scope of work defined, the value of the compensation indicated and the schedule duration shown.

see page 2 for Attachments which constitute the basis for the Work Order as well as the list of designated Points-of-Contact for this effort

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
AS-NEEDED CONTINUING CONSTRUCTION SERVICES CONTRACT  
WORK ORDER COVER SHEET (page 2 of 2)**

**ATTACHMENTS**

The following attachments comprise the Scope of Work including any pertinent schedule requirements, deliverables, functional specifications, material specifications, permit needs, warranty requirements and any other data pertinent to development of the cost and duration for the construction effort described. Minor details (such as the color of paint pigment) which have no effect on price may be negotiated during the course of the work. The undersigned agree and concur that these attachments adequately convey the intent of the construction effort as understood by both the Contractor and Authority and that there are no known disagreements as to scope, cost or duration. Further, Contractor has factored in reasonable expectations for weather delays as might normally be expected for the season. Finally, any change to scope which results in a cost or schedule impact effort will comprise a need to amend the work order value and/or duration by increasing or decreasing value and/or duration as appropriate.

**A** [Work Order 17-02R Memo-to-File and Historical Documentation Backup for Emergency Repair of ABR-To-Raw Water Interconnect Piping](#)

**B**

**C**

**D**

**E**

**POINTS OF CONTACT FOR THIS WORK ORDER**

**AUTHORITY'S PROJECT MANAGER**

*Ford Ritz, email: [fritz@regionalwater.org](mailto:fritz@regionalwater.org) Office Phone (863) 491-7557; cell (813) 394-1627*

**AUTHORITY'S CONSTRUCTION MANAGER**

*Tom Dobbs, email: [tdobbs@regionalwater.org](mailto:tdobbs@regionalwater.org); Office Phone (863) 491-7557; cell (941) 456-0016*

**CONTRACTOR'S SUPERINTENDENT**

*Gregg March, email: [gregg@forsbergconstruction.com](mailto:gregg@forsbergconstruction.com); Office Phone (941) 637-8000; cell (941) 628-2750*

**Work Order 17-02R**  
**Attachment A**  
**Memo to File and Historical Document Backup**  
**For Emergency Repair of ASR-Raw Water Interconnect Piping**



# MEMO

**To:** File  
**RE:** Work Order 17-02R Emergency Repair of ASR-To-Raw Water Interconnect Piping/Summary  
**From:** Ford Ritz  
**Date:** March 24, 2017

## General:

The ASR to Raw Interconnect above ground assembly located on the Peace River Facility exhibited vertical movement. The cause was not known. On this basis, the Authority contacted an As-Needed Contractor (Forsberg) and As-Needed Engineer (AECOM) to determine the cause (subsurface Investigation) and to develop a repair plan. On February 14<sup>th</sup> while the Authority was meeting on site with AECOM to discuss the movement of the ASR to Raw Piping the 36-inch ASR pipe began leaking as result of a routine sampling event at the ASR Well Field 2.

Forsberg was issued Work Order 17-02 for a not-to-exceed cost of \$25K to exposed ASR piping upstream and downstream of the ASR to Raw Interconnect Assembly. Based on the results of the ASR to Raw investigation, the Authority and AECOM developed an Emergency Repair plan to be completed by early April so the ASR water from Well Field 2 could be conveyed directly to Reservoir 2. The Authority directed the Contractor to continue the Work until the ASR-To-Raw repair was completed to the ASR to Raw Interconnect could be brought on line.

## February 14, 2017 Event at ASR to Raw observations:

- 36-inch pipe leak upstream of the Assembly
- Vertical and forward movement of entire assembly including the upstream and downstream bends between the below grade and above grade piping
- Cracked slab at above grade assembly piping and pull out of existing pipe supports
- Cracked concrete pipe supports
- Pipe support damage

## Work Order 17-02 issued February 17, 2017 to Contractor for /Subsurface Investigation

- Contractor to perform Subsurface Investigation at ASR-Raw Assembly to determine cause of leaking

## Subsurface investigation Work included

- Dewatering (during excavation and underground repairs) 3-weeks
- Excavation of upstream and downstream 36-inch diameter ASR piping

**Results of Subsurface Investigation Performed by Contractor Revealed:**

- Leak identified as originating from the 45-degree fitting located immediately upstream of ASR to Raw above grade interconnect assembly
- Engineers Inspected the Work and developed a Repair Plan including replacement of the existing 45-degree fittings upstream and downstream of the ASR to Raw Assembly using mechanical fitting with megalug restraints and installation an upstream concrete thrust block

**Emergency Repair includes:**

- Coordination with Contractor and Engineer
- Contractor Authorization from Authority for implementation of emergency repair plan
- Procurement of materials
- Installation of (2) 36-inch pipe sleeves
- Demolition and replacement of (2) 36-inch diameter 45-degree fittings - upstream and downstream side of assembly
- Pipe replacement above and below grade as necessary to make repairs including new restrained/mechanical fittings
- Replace of an existing 1-inch Air Release Valve (ARV) on above grade piping, with a 2-inch ARV
- Demolition and replacement of concrete slab/concrete pipe supports and replacement of SS adjustable threaded pipe supports
- Installation of a 5.6 cy(+/-) concrete thrust block on upstream side of assembly incorporating SS pipe straps tied to thrust block.
- Restoration of site including backfill, fine grading and sodding

**Work Order 17-02R Contractor Cost Projections for Emergency Repair:**

- Per Contractor Estimated Cost to Complete the Work \$211,171.75. Estimated cost updated March 24, 2017.
  - Cost (T&M) Work to date = \$131,721.21.
  - Estimated (T&M) cost to complete = \$79,450.54.  
\$211,171.75

**Work Order 17-02R Project Schedule for Completion:**

- Contractor forecasts completion of the Emergency Repair to the ASR to Raw by April 7, 2017

**Attachments:**

- Historical Documentation

**Tom Dobbs**

---

**From:** Gregg Marsh <gregg@forsbergconstruction.com>  
**Sent:** Friday, March 24, 2017 2:36 PM  
**To:** Tom Dobbs  
**Cc:** Fordyce Ritz; Mike Coates  
**Subject:** RE: W.O. 17-02 Cost  
**Attachments:** ASR to Raw Water Repair.xlsx

Tom – Last time. Upon further review, we had an incorrect unit price which lowers the overall value below the original value.

The revised costs are detailed on the attached and summarized below.

Actual Cost of Work Completed to Date	\$131,721.21
Estimated Cost for Work Remaining	\$79,450.54
<b>TOTAL</b>	<b>\$211,181.75</b>

*7 FJR 3/24/2017*

Again, we apologize for the confusion.

Thank you and have a nice weekend.

*Gregg V. Marsh*  
Vice President

**Forsberg Construction, Inc.**  
645 Charlotte Street  
Punta Gorda, Florida 33950  
(941) 637-8500 Office  
(941) 639-1073 Facsimile  
(941) 628-2759 Mobile

**From:** Gregg Marsh  
**Sent:** Friday, March 24, 2017 2:07 PM  
**To:** 'Tom Dobbs' <[TDobbs@regionalwater.org](mailto:TDobbs@regionalwater.org)>  
**Cc:** Fordyce Ritz <[FRitz@regionalwater.org](mailto:FRitz@regionalwater.org)>; Mike Coates <[MCoates@regionalwater.org](mailto:MCoates@regionalwater.org)>  
**Subject:** RE: W.O. 17-02 Cost

Tom – In compiling all of our costs for the subject project, we did not account for a few days.

The revised costs are detailed on the attached and summarized below.

Actual Cost of Work Completed to Date	\$140,710.54
Estimated Cost for Work Remaining	\$79,450.54
<b>TOTAL</b>	<b>\$220,161.08</b>

We apologize for the mistake.

Thank you.

*Gregg V. Marsh*

Vice President

**Forsberg Construction, Inc.**

645 Charlotte Street  
Punta Gorda, Florida 33950  
(941) 637-8500 Office  
(941) 639-1073 Facsimile  
(941) 628-2759 Mobile

From: Tom Dobbs [<mailto:TDobbs@regionalwater.org>]  
Sent: Wednesday, March 22, 2017 5:14 PM  
To: Gregg Marsh <[gregg@forsbergconstruction.com](mailto:gregg@forsbergconstruction.com)>  
Cc: Fordyce Ritz <[FRitz@regionalwater.org](mailto:FRitz@regionalwater.org)>; Mike Coates <[MCoates@regionalwater.org](mailto:MCoates@regionalwater.org)>  
Subject: RE: W.O. 17-02 Cost

Gregg, Thanks very much.

Ford, FYI

Mike, As requested.

*Tom Dobbs*

PRWSF

Construction Manager

[tdobbs@regionalwater.org](mailto:tdobbs@regionalwater.org)

Mobile: 941-456-0115

From: Gregg Marsh [<mailto:gregg@forsbergconstruction.com>]  
Sent: Wednesday, March 22, 2017 3:29 PM  
To: Tom Dobbs  
Subject: RE: W.O. 17-02 Cost

Tom – Attached are the actual and estimated costs for work completed to date and work remaining.

Actual Cost of Work Completed to Date	\$132,929.04
Estimated Cost for Work Remaining	\$79,450.54
<b>TOTAL</b>	<b>\$212,379.58</b>

In finalizing the work to be completed, we have not addressed sandblasting and painting.

Do you want us to get a proposal for this work?

Also, we need to finalize the Thrust Block Restraint.

We propose constructing more of a rectangle thrust block than that which is shown. We propose to construct the thrust block under the finished top slab. We propose to use TWO (2) 3"X3/8" FLAT STRAP WITH 1-3/4" NUT COUPLINGS TO 1-3/4" ALL THREAD ROD ANCHORED IN THE THRUST BLOCK, in lieu of the FOUR (4) 1-3/4" threaded bar proposed. All material will be stainless steel.

Please confirm acceptance of this methodology so that we can order the necessary material.

Thank you.

**Gregg V. Marsh**

Vice President

**Forsberg Construction, Inc.**

645 Charlotte Street  
Punta Gorda, Florida 33950  
(941) 637-8500 Office  
(941) 639-1073 Facsimile  
(941) 628-2759 Mobile

From: Tom Dobbs [<mailto:TDobbs@regionalwater.org>]

Sent: Wednesday, March 15, 2017 1:22 PM

To: Gregg Marsh <[gregg@forsbergconstruction.com](mailto:gregg@forsbergconstruction.com)>; Andrew Hume <[andrew@forsbergconstruction.com](mailto:andrew@forsbergconstruction.com)>

Cc: Fordyce Ritz <[FRitz@regionalwater.org](mailto:FRitz@regionalwater.org)>; Richard Anderson <[RAnderson@regionalwater.org](mailto:RAnderson@regionalwater.org)>; Mike Coates <[MCoates@regionalwater.org](mailto:MCoates@regionalwater.org)>

Subject: W.O. 17-02 Cost

Now that most of the work is either completed and the remaining work identified in detail we are in need of your final cost estimate March 27th. Upon receipt we will increase the not to exceed limit, revise the WO and present it to our Board for Approval at the April Board Mtg.

We will need this number by the 20th so as include it in the Board Agenda.

Thanks.

We have and continue to appreciate your aggressive approach and efficient work ethics in bringing this dynamic task along so quickly thus inabling us to maintain our seasonal operational schedules.

Sent from my Verizon, Samsung Galaxy smartphone

**FORSBERG CONSTRUCTION, INC.**  
**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**TIME AND MATERIAL SPREADSHEET**

**ASR to Raw Water Field Investigation and Repair**

Date: TBD

Equipment Description	Scheduled Rate (hr)	Date	Date	Date	Date	Total Hours	Total Cost
Loader	\$ 77.00	10	10	10	10	40	\$ 3,080.00
Small Dozer	\$ 72.00					0	\$ -
Large Dozer	\$ 121.00					0	\$ -
Tracked Hydraulic Excavator - Compact	\$ 88.00	10	10	10	10	40	\$ 3,520.00
Tracked Hydraulic Excavator - Small	\$ 121.00					0	\$ -
Tracked Hydraulic Excavator - Large	\$ 187.00					0	\$ -
Rubber Tire Backhoe Loader	\$ 61.00					0	\$ -
Motor Grader	\$ 83.00					0	\$ -
Roller/Box Blade	\$ 53.00					0	\$ -
Compactor	\$ 22.00	10	10	10	10	40	\$ 880.00
Steel Sheets/Plates	\$ 17.00					0	\$ -
Air Compressor	\$ 33.00					0	\$ -
Trench Box	\$ 22.00					0	\$ -
3" Pump	\$ 22.00					0	\$ -
6"/8" Hydraulic/Vacuum Pump	\$ 66.00					0	\$ -
Well Pointing Equipment	\$ 55.00					0	\$ -
Jet Pump	\$ 33.00					0	\$ -
Chain Saw	\$ 17.00					0	\$ -
Cut off Saw (Pipe or Asphalt)	\$ 28.00	10	10	10	10	40	\$ 1,120.00
Cement Mixer	\$ 22.00					0	\$ -
3.5 kW Generator	\$ 22.00					0	\$ -
5 kW Generator	\$ 28.00					0	\$ -
25 kW Generator	\$ 33.00					0	\$ -
Pickup	\$ 17.00	20	20	20	20	80	\$ 1,360.00
Service Truck	\$ 66.00	2	2	2	2	8	\$ 528.00
Lowboy with Tractor	\$ 110.00	6			6	12	\$ 1,320.00
Trailer	\$ 22.00					0	\$ -
Articulated Truck	\$ 105.00					0	\$ -
Tri-Axle Dump Truck	\$ 66.00		5	5		10	\$ 660.00
Water Tank Truck	\$ 72.00					0	\$ -
<b>Equipment Subtotal</b>							<b>\$ 12,468.00</b>

Labor Description							
Project Manager	\$ 99.00	10	10	10	10	40	\$ 3,960.00
Supervisor	\$ 66.00	10	10	10	10	40	\$ 2,640.00
Equipment Operator	\$ 44.00	20	20	20	20	80	\$ 3,520.00
Equipment Driver	\$ 44.00	10	9	9	10	38	\$ 1,672.00
Pipelayer/Skilled Laborer	\$ 33.00	10	10	10	10	40	\$ 1,320.00
Laborer/Unskilled Laborer	\$ 28.00	20	20	20	20	80	\$ 2,240.00
<b>Labor Subtotal</b>							<b>\$ 15,352.00</b>

Material Description	Quantity	Unit	Unit Price	7% Tax	UP w/Tax	Total
Supports	4.00	EA	\$ 1,675.00	\$ 117.25	\$ 1,792.25	\$ 7,169.00
Pipe Support	1.00	EA	\$ 2,025.00	\$ 141.75	\$ 2,166.75	\$ 2,166.75
Pipe Strap	1.00	EA	\$ 415.00	\$ 29.05	\$ 444.05	\$ 444.05
Miscellaneous Hardware	1.00	LS	\$ 1,000.00	\$ 70.00	\$ 1,070.00	\$ 1,070.00
Sod	4,400.00	SY	\$ 2.00	\$ 0.14	\$ 2.14	\$ 9,416.00
<b>Material Subtotal</b>						<b>\$ 20,265.80</b>
<b>Material Total w/Tax Plus 15% Overhead &amp; 15% Profit</b>						<b>\$ 26,345.54</b>

Subcontract Work Description	Quantity	Unit	Unit Price	Total
Concrete Slab	1.00	LS	\$ 9,500.00	\$ 9,500.00
Concrete Support	1.00	LS	\$ 1,620.00	\$ 1,620.00
Concrete Anchor	1.00	LS	\$ 8,330.00	\$ 8,330.00
<b>Subcontractor Subtotal</b>				<b>\$ 19,450.00</b>
<b>Subcontract Work Total w/15% Overhead &amp; 15% Profit</b>				<b>\$ 25,285.00</b>

SUMMARY	
Equipment	\$ 12,468.00
Labor	\$ 15,352.00
Material	\$ 26,345.54
Subcontractor Work	\$ 25,285.00
<b>TOTAL</b>	<b>\$ 79,450.54</b>

Emergency Hours are calculated portal to portal.  
 Labor and Equipment rates will increase by 3% each year following the initial year of the Contract.  
 Overtime Rates = 1.5 x Standard Rate (defined as work hours over standard 8 hour day between 7 a.m. and 5 p.m., Mon-Fri)  
 Holiday and Emergency Rate = 2 x Standard Rate.



## Fordyce Ritz

---

**From:** Curran, Tim <Tim.Curran@aecom.com>  
**Sent:** Thursday, March 23, 2017 10:37 AM  
**To:** Fordyce Ritz  
**Subject:** RE: ARS/RW Thrust Block Clarification

Ford,

Regarding your e-mail below and one you sent earlier with Forsberg's proposal:

1. The all-thread SST rods and SST straps are fine. Using 1-inch diameter rods instead of the original 1-3/4-inch will do the job.
2. The threaded bars need to have a 16" hook or have a plate attached to resist pull out. The plate needs to be 4" by 4" and 1/2" thick; with 2 nuts on both sides.
3. A rectangular shaped block is fine. What dimensions do they propose? We don't want what amounts to a thick "slab". A cube would be better. It needs to maintain the general compact shape that allows about 3 feet of embedded for the all-thread.
4. The top of the thrust block needs to be separated from the bottom of the slab above by at least 8 inches. And the rods need to be sleeved through the slab.
5. Not sure why Tom's message says "four hoop bars and eight embedded bars". Seems it would be two hoops and four embeds. ??

Call if you need anything else.

Correct FJR  
3/23/2017

**Tim Curran, PE**  
Principal Engineer  
AECOM Water

**From:** Fordyce Ritz [<mailto:FRitz@regionalwater.org>]  
**Sent:** Wednesday, March 22, 2017 7:09 PM  
**To:** Curran, Tim  
**Subject:** Fwd: ARS/RW Thrust Block Clarification

Tim:

Attached is what Tom sent to Forsberg. Forsberg came back with their suggestions.

So compare for the recommendation etc.

Thanks,.

-Ford

Sent from my Verizon 4G LTE smartphone

----- Original message -----

**From:** Tom Dobbs <[TDobbs@regionalwater.org](mailto:TDobbs@regionalwater.org)>  
**Date:** 3/22/17 5:11 PM (GMT-05:00)  
**To:** Gregg Marsh <[gregg@forsbergconstruction.com](mailto:gregg@forsbergconstruction.com)>



Cc: Fordyce Ritz <[FRitz@regionalwater.org](mailto:FRitz@regionalwater.org)>  
Subject: ARS/RW Thrust Block Clarification

See the attached Thrust Block Detail previously provided which has as of today been Revised to clarify the hold tie rods . The Hold down rods are to be #6 GR-60 Rebar with threaded ends and threaded couplers for both the rods embedded into the concrete and for those hooped over the pipe. The Hoop Bars shall bear on a narrow strip of ¼" neoprene pad (approx. 2 ½" to 3" wide). A total of four hoop bars and eight embedded bars will be needed. Because of the nature of threading a coupler to connect the two bar ends, the bars will need to be coupled prior to concrete placement for all eight coupled locations and snugged to the 36"x45 deg. bend during the concreting. The Couplers must be accessible above the slab for future removal. Please that the 12" Thick concrete slab is to be placed over the underground thrust block and not to be considered in the sizing of the thrust block design dimensions.

*Tom Dobbs*

PRWSF

Construction Manager

[tdobbs@regionalwater.org](mailto:tdobbs@regionalwater.org)

Mobile: 941-456-0115

## Fordyce Ritz

---

**From:** Curran, Tim <Tim.Curran@aecom.com>  
**Sent:** Tuesday, March 14, 2017 4:59 PM  
**To:** Fordyce Ritz; Tom Dobbs  
**Cc:** Cavalieri, Ronald; Wilcox, David  
**Subject:** Peace River WTF - ASR-to-Raw Interconnect  
**Attachments:** THRUST BLOCK RESTRAINT-DETAIL.PDF

Following summarizes the situation with the subject interconnect and presents our recommendation.

### Background

1. The subject piping was a modification to an older above ground chemical addition system to direct ASR water into an adjacent ground storage tank.
2. Other than one time during an emergency to receive water that was backflowed from the Carlton EDR plant, this piping was never used for its intended purpose.
3. The interconnect design modified this piping to divert ASR water to Reservoir #2 via one of the raw water transmission mains.
4. According to plant staff the assembly had shown some earlier signs of minor movement, but it actually failed on February 14, 2017.
5. Further investigations indicated that the spool inserted into the downstream end of the inlet buried Bend 45 had pulled out enough to allow water to be released and for the above ground assembly to lift off its supports.

### Evaluation

1. Now that the pipe on both ends has been re-installed with Megalug connections, the overall assembly should be secure. However, the condition/effectiveness of the remaining buried restrained joints upon which the integrity of the assembly also depend is unknown.
2. Therefore, additional thrust restraint is recommended on the upstream side.
3. The operating pressure at the interconnect is just under 20 psi at full 12 mgd flow and max static head of a full reservoir.
4. With a safety factor of 1.5 (or 30 psi), a thrust block of 5.6 CY is required to keep the above ground Bend 45 from uplifting.

### Recommendation

1. The attached detail shows the placement a 5.6 CY thrust block, with four rods cast into the block tied to the above ground 45 Bend.

Please keep us advised as to when you plan to have this work completed.  
Do not hesitate to call if you have any questions.

Tim Curran, PE  
Principal Engineer  
AECOM Water

AECOM  
T 407.513.8263  
[www.aecom.com](http://www.aecom.com)

GR-75 THREADED BAR CONNECTORS  
BY SKYLINE STEEL OR EQUAL  
4-TOTAL (2 ON EACH SIDE OF 45° BEND)

EXISTING 36" 45° BEND

EXISTING 36" ASR

EXISTING GRADE

CL

12" LONG HOOK  
(TYP)

CONCRETE THRUST BLOCK  
3' SQUARE TOP  
8' SQUARE BOTTOM  
5' TALL  
APPROX. 5.6 CY

#14 GR. 75 BAR  
BY SKYLINE STEEL OR EQUAL  
4-TOTAL (2 ON EACH  
SIDE OF 45° BEND)

PLOTTED: March 14, 2017 4:54 PM PLOTTED BY: SONNENBERG, TERENCE  
 P:\PEACE RIVER\00268653-WO 13-03 ASR\000-CAD-GIS\910 CAD\_BIM\03-SNETCHES\THRUST BLOCK RESTRAINT.DWG



7650 West Courtney Campbell Cwy, Suite 700  
Tampa, Florida 33607  
Ph: (813) 286-1711 Fax: (813) 286-8587  
Florida Engineering Number: 000002

PEACE RIVER ASR INTERCONNECT  
THRUST BLOCK RESTRAINT

## **Fordyce Ritz**

---

**From:** Fordyce Ritz  
**Sent:** Thursday, February 23, 2017 5:08 PM  
**To:** 'Gregg Marsh'; Richard Anderson; Tom Dobbs  
**Cc:** Andrew Hume; Tim Curran (AECOM)  
**Subject:** RE: ASR/RW Interconnect Repairs  
**Attachments:** ASRtoRaw pics.pdf

Gregg:

Tom and I met with Tim Curran of AECOM this afternoon. Discussed the following:

### **Upstream Side of Assembly**

- add 36-inch solid sleeve/with megalugs/EPDM gaskets and bolts
- Replace existing 36-inch 45-degree bend (Flex Ring) with new MJ 45-degree bend with megalugs/EPDM gaskets and bolts
- Replace existing 36-inch Flange by PE spool piece with new Flange by PE (red prime) spool piece or Contractor's suggestion.

### **Downstream Side of Assembly**

- Replace existing 36-inch Flange by PE spool piece (reuse upstream side existing spool piece/cut to fit)
- Remove existing 2-inch valve on spool piece and tap replacement spool piece and install 2-inch valve
- Replace existing 36-inch 45-degree bend (Flex Ring) with MJ 45-degree bend with megalugs/EPDM gaskets and bolts
- Replace existing 36-inch pipe between 45-degree bend and existing solid sleeve

### **On Assembly**

Replace existing 1-inch ARV with 2-inch ARV – match existing configuration

Owner furnished.

- 36-inch Solid Sleeve
- 1-36-inch stick of pipe

Slab and pipe support(s) replacement details to follow.

### **Work Orders**

Let me know how much is remaining in the first Work Order. Let's discuss scope/sequence for next Work Order(s).

Give me a call with any questions.

Thanks,  
-Ford

Ford Ritz, PE  
Project Engineer  
PRMRWSA

Cell 813/394-1627

**From:** Gregg Marsh [<mailto:gregg@forsbergconstruction.com>]  
**Sent:** Thursday, February 23, 2017 8:12 AM  
**To:** Richard Anderson; Tom Dobbs  
**Cc:** Fordyce Ritz; Andrew Hume  
**Subject:** RE: ASR/RW Interconnect Repairs

All – With an order today, it appears as though we can get the material by the end of next week.

Please advise.

Thank you.

*Gregg V. Marsh*  
Vice President

**Forsberg Construction, Inc.**  
645 Charlotte Street  
Punta Gorda, Florida 33950  
(941) 637-8500 Office  
(941) 639-1073 Facsimile  
(941) 628-2759 Mobile

**From:** Richard Anderson [<mailto:RAnderson@regionalwater.org>]  
**Sent:** Wednesday, February 22, 2017 4:16 PM  
**To:** Tom Dobbs <[TDobbs@regionalwater.org](mailto:TDobbs@regionalwater.org)>  
**Cc:** Fordyce Ritz <[FRitz@regionalwater.org](mailto:FRitz@regionalwater.org)>; Andrew Hume <[andrew@forsbergconstruction.com](mailto:andrew@forsbergconstruction.com)>; Gregg Marsh <[gregg@forsbergconstruction.com](mailto:gregg@forsbergconstruction.com)>  
**Subject:** RE: ASR/RW Interconnect Repairs

Great Tom, thanks.

**From:** Tom Dobbs  
**Sent:** Wednesday, February 22, 2017 4:16 PM  
**To:** Richard Anderson  
**Cc:** Fordyce Ritz; Andrew Hume; Gregg Marsh ([gregg@forsbergconstruction.com](mailto:gregg@forsbergconstruction.com))  
**Subject:** ASR/RW Interconnect Repairs

Looking ahead I wish to note that the Authority has on hand a stick of 36" DIP and a 36" dia. Solid Sleeve. I believe the pipe is US Pipe and the Solid Sleeve is SIGMA. We do not have mega-lugs, t-bolts or gaskets. We also do not have any fittings or flange adaptors.

*Tom Dobbs*  
PRWSF  
Construction Manager  
[tdobbs@regionalwater.org](mailto:tdobbs@regionalwater.org)  
Mobile: 941-456-0115



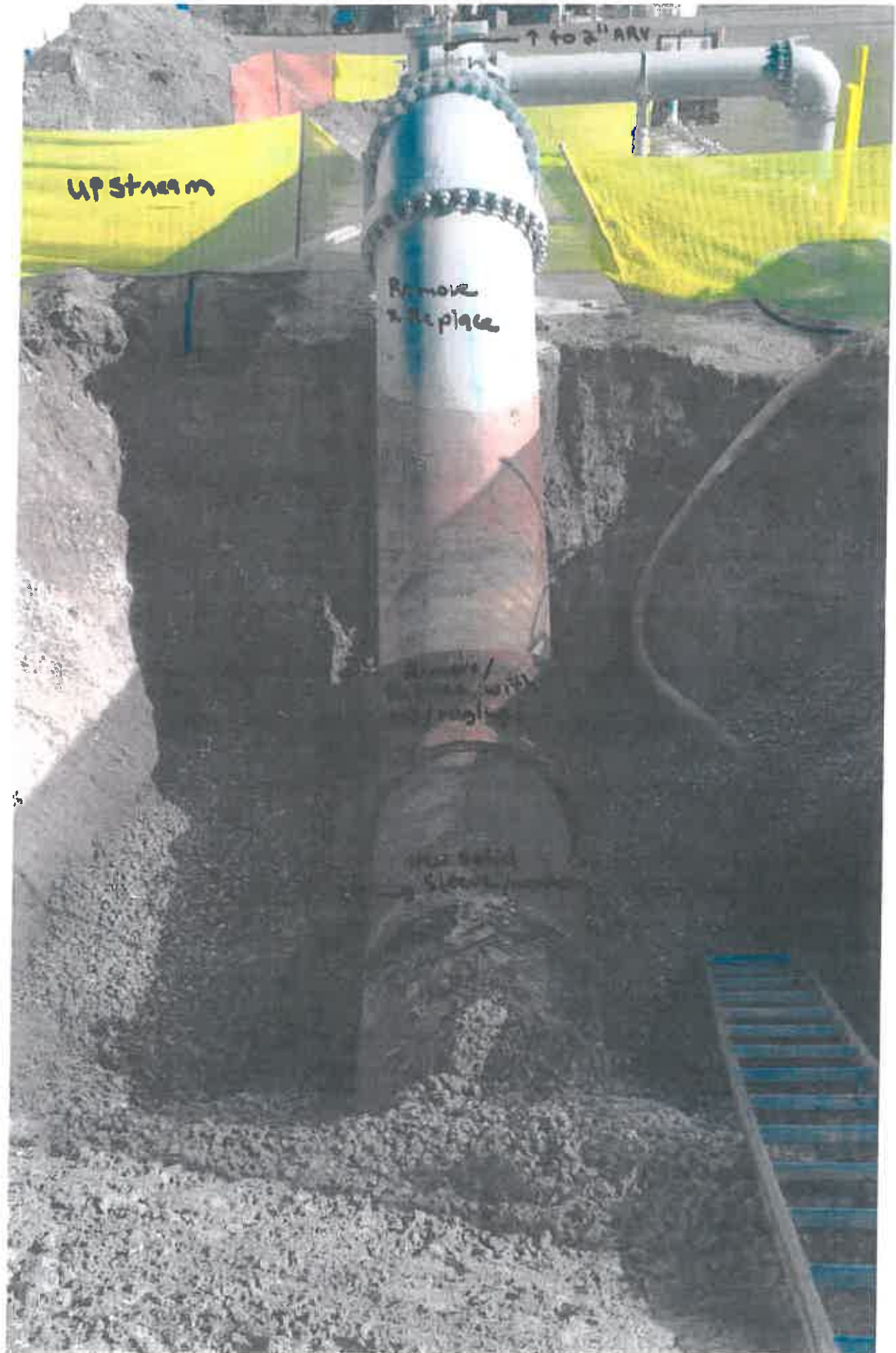
Down Stream

Remove and  
Replace on  
new pool piece

Replace

Replace

measuring



**TAB B**  
**Photographs of the Findings & Repair**





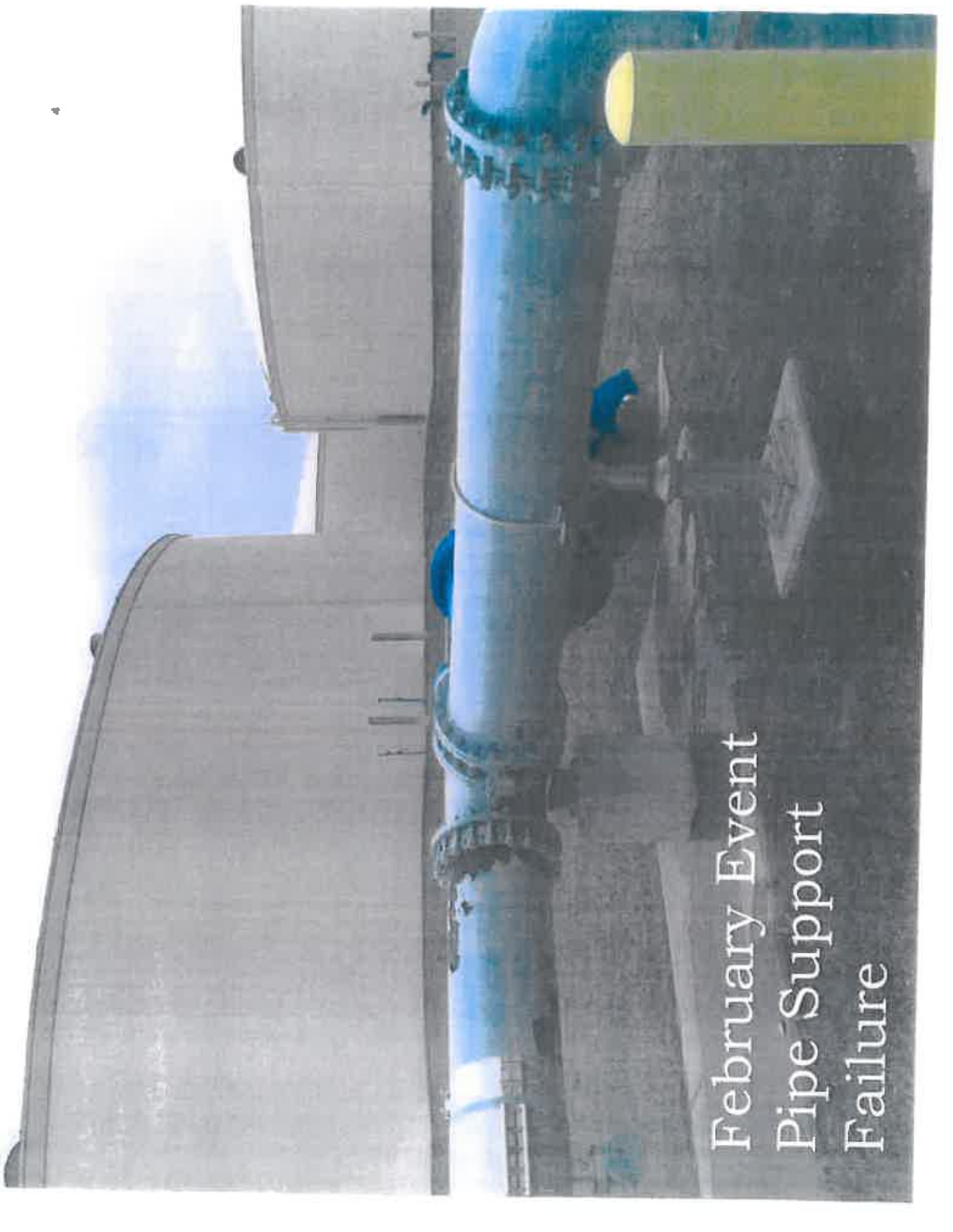
**Initial Vertical Lift of ASR to Raw Assembly  
Kicked off investigation for cause.**

A photograph of a large blue pipe in a trench. The pipe is oriented vertically in the image. At the top of the pipe, there is a significant leak of water, which is spraying upwards and outwards. The pipe has several flanged joints. The trench walls are made of concrete, and the ground at the bottom of the trench is dark and appears to be wet or muddy. The overall scene suggests a major infrastructure failure or maintenance issue.

February Event  
Upstream Leak



# February Event Pipe Support and Slab Damage



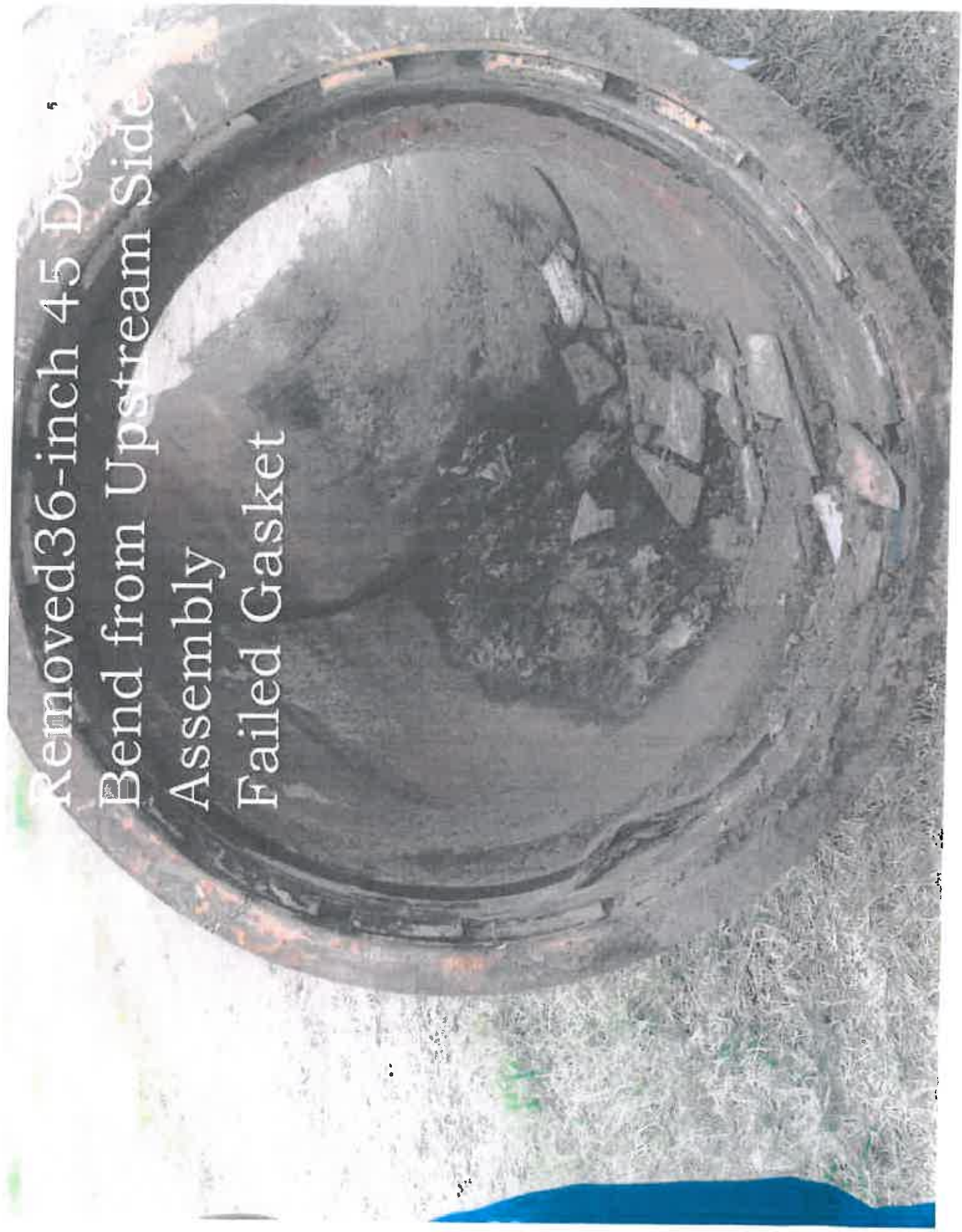
# February Event Pipe Support Failure

Removed 36-inch 45 Degree

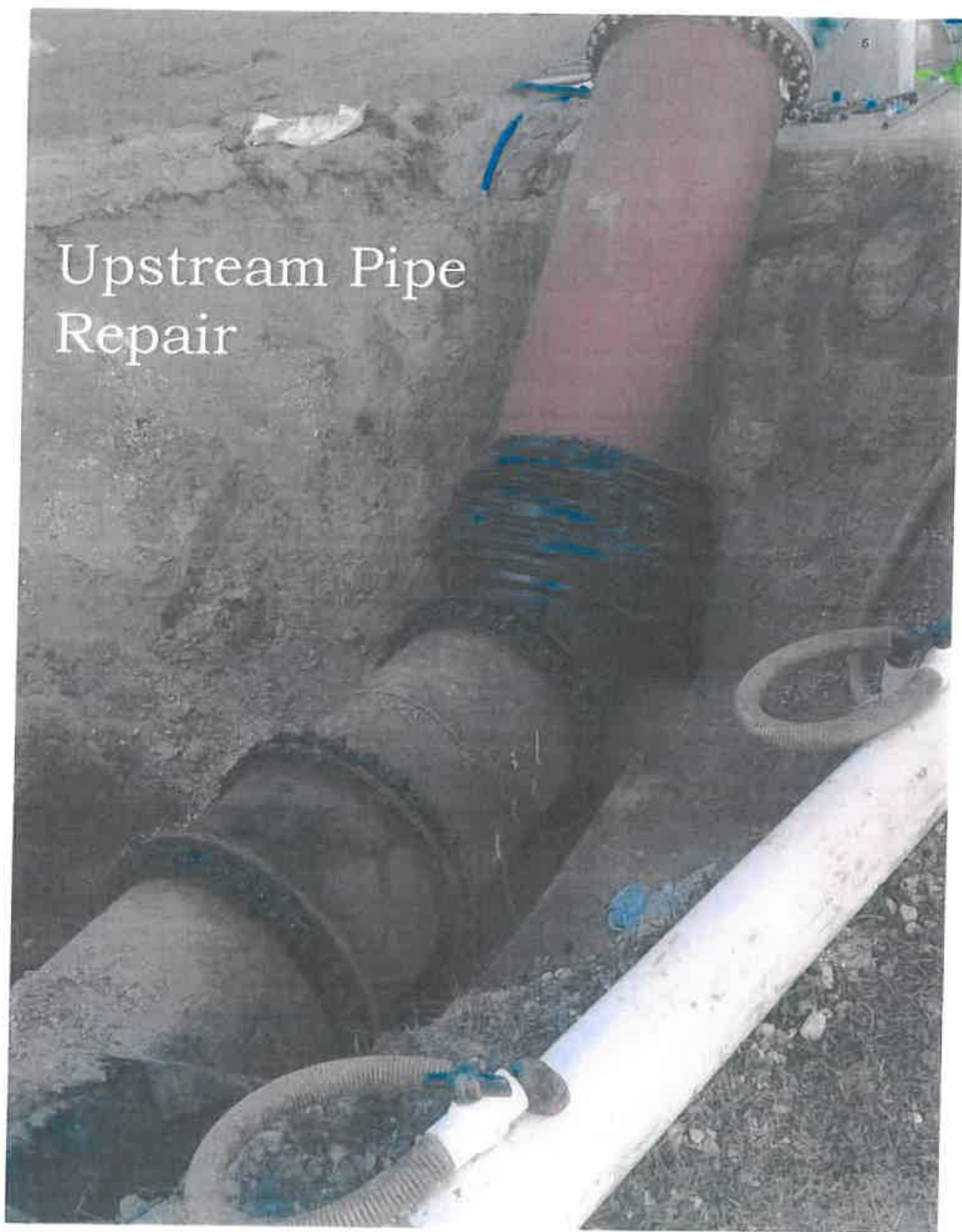
Bend from Upstream Side

Assembly

Failed Gasket

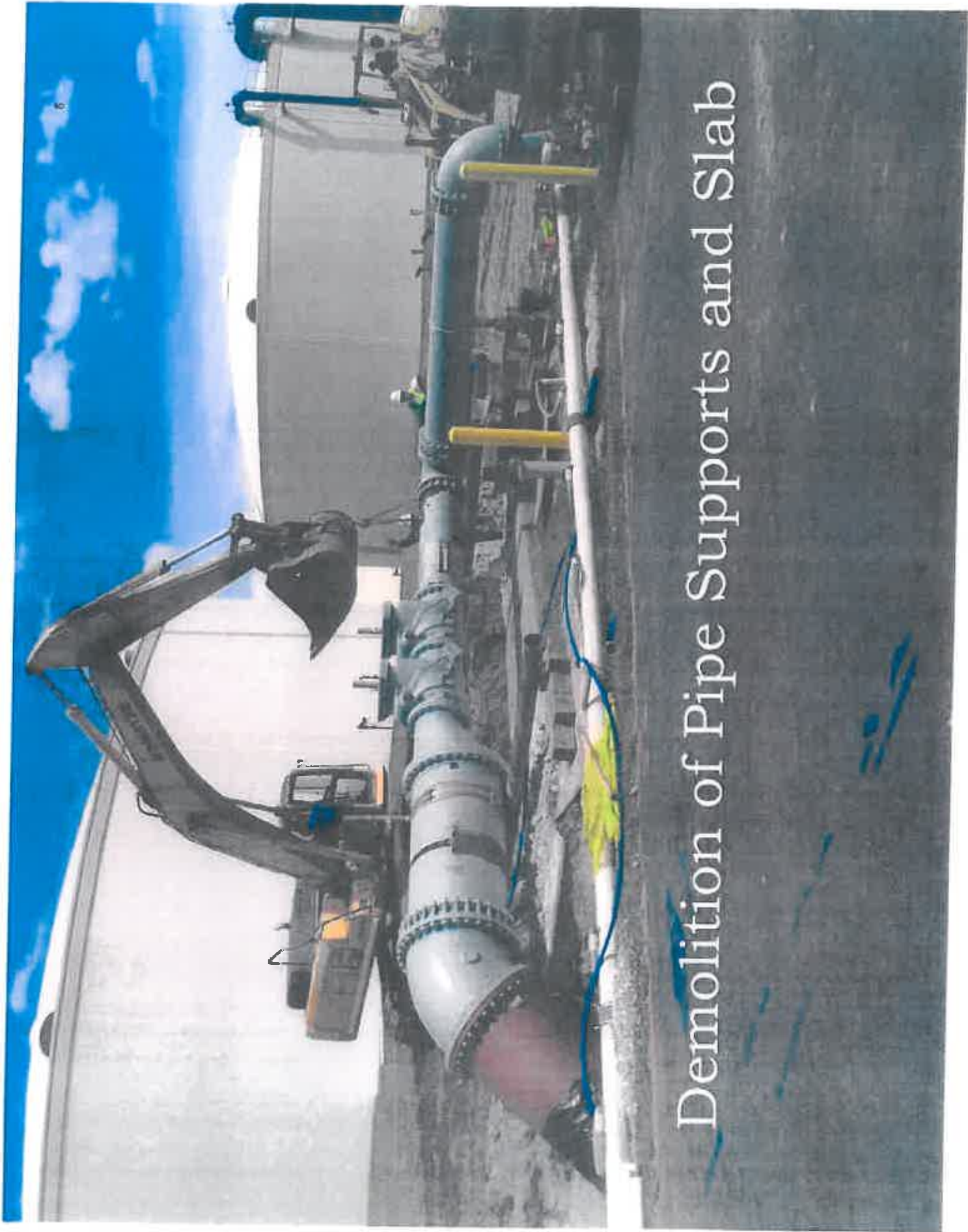


# Upstream Pipe Repair



A photograph of a construction site for pipe repair. A large, grey, corrugated metal pipe is being installed in a deep, rectangular trench. The pipe is supported by a blue cap at the top left and a red cone at the bottom right. The trench walls are made of grey concrete blocks. In the background, there are trees and a clear blue sky. The text "Downstream Pipe Repair" is overlaid in white on the right side of the image.

# Downstream Pipe Repair



# Demolition of Pipe Supports and Slab



**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**CONSENT AGENDA**  
**ITEM 8**

**Administrative Office Lease**

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**Recommended Action -**

**Motion** to approve and authorize Executive Director to execute 3-year lease with 3-year renewal option for Administrative Office at 9415 Town Center Parkway, Lakewood Ranch, Florida.

The lease for the Authority's administrative office in Lakewood Ranch expired on March 31, 2017. Pursuant to Section 1 of the lease dated September 20, 2011, the Authority has two 5-year options to renew the current lease at 95% of current market value.

The Board requested investigating other lease options with the landlord to provide a shorter lease term to allow for evaluation of future space requirements. Negotiations were conducted with Will Schlotthauer, Esq, trustee for the landlord, and the landlord has offered a three (3) year lease with an option for another three (3) year renewal. The initial rent will be at 95% of market value and escalate 2% annually, with all other terms of the lease renewal remaining status quo.

Staff recommends the Board authorize the Executive Director to enter into a 3-year lease renewal based on the following terms.

**Lease Term:** Three (3) year lease term that would commence when existing lease is due to expire (April 1, 2017), with another three (3) year renewal provided notice to renew one (1) year prior to the expiration date of the initial 3 year lease term.

**Rent:** The first year of the lease term would have a base rent at \$13.33 per sq. ft. which is 95% of existing rent in accordance with our existing market studies. Rent would escalate by 2% annually.

**Holdover:** Pursuant to the terms of the existing lease the provisions regarding holdover rent would apply. If a new lease or lease amendment is executed any additional rent paid under the 'holdover' provisions would be credited against the next rent payments.

**Budget Action:** None

**Attachments:**

Tab A 3 Year Lease Proposal and Background Information

Tab B Current Lease

**TAB A**  
**3 Year Lease Proposal and Background Information**

## Administrative Office Location

### Distances:

Peace River Facility	50 miles
Manatee Co BOCC	18 miles
Sarasota Co BOCC	12 miles
Charlotte Co BOCC	43 miles
DeSoto Co BOCC	43 miles
SWFWMD (Sarasota)	5 miles
SWFWMD (Tampa)	52 miles

### Drive Time:

Peace River Facility	49 mins
Manatee Co BOCC	25 mins
Sarasota Co BOCC	30 mins
Charlotte Co BOCC	48 mins
DeSoto Co BOCC	49 mins
SWFWMD (Sarasota)	10 mins
SWFWMD (Tampa)	55 mins



## Administrative Office Lease Current Lease Facts

- Original lease began on Dec 1, 2011 and expired on March 31, 2017
- \* Rent had 3% annual increase for initial 5 year period (currently \$8,478 per month)
- \* CAM charges are paid monthly in addition to rent
  - \* Charges are paid based on estimated yearly expenses and reconciled every year

## Proposed 3 Year Lease

<b>Lease Term:</b>	Three (3) year lease term that would commence when existing lease is due to expire (April 1, 2017), with another three (3) year renewal provided notice to renew one (1) year prior to the expiration date of the initial 3 year lease term.
<b>Rent:</b>	The first year of the lease term would have a base rent at \$13.33 per sq. ft. which is 95% of existing rent in accordance with our existing market studies. Rent would escalate by 2% annually.
<b>Holdover:</b>	Pursuant to the terms of the existing lease the provisions regarding holdover rent would apply. If a new lease or lease amendment is executed any additional rent paid under the 'holdover' provisions would be credited against the next rent payments.

## Proposed 3 Year Lease Monthly Rent Payment Schedule

Year	Proposed Lease 3 Year Lease with Renewal Option
1	\$ 8,367*
2	\$ 8,537
3	\$ 8,705
4	\$ 8,879
5	\$ 9,056
6	\$ 9,237

\* 95% Current Market Price with 2% Annual Escalation and Option for Renewal.

**TAB B**  
**Current Lease**

# LEASE

This Lease is made and entered into as of this 30 day of September, 2011, by and between Landlord and Tenant identified below:

## 1. INFORMATIONAL PROVISIONS AND DEFINITIONS.

**LANDLORD:** MCF Florida, LLC  
8614 WESTWOOD CENTER DRIVE, SUITE 500  
VIENNA VA 22182

**TENANT:** Peace River Manasota Regional Water Supply Authority  
9415 Town Center Parkway  
Lakewood Ranch, FL 34202

**BUILDING:** 63% of 11,919 SF  
to include 7,533 SF

**PREMISES:** The location of the premises within the building is more particularly depicted on the attached Exhibit "A".

**COMMENCEMENT DATE:** December 1, 2011

**TERMINATION DATE:** March 31, 2017

**INITIAL TERM RENT:** \$7,533.00 (plus CAM charges of \$5.50 per SF)

Lease Term	Annual Rent	Monthly
12/1/11 to 3/31/12	No rent	
4/1/12 to 3/31/13	\$90,398.00	\$7,533.00 (plus CAM)
4/1/13 to 3/31/14	\$93,107.88	\$7,758.99 (plus CAM)
4/1/14 to 3/31/15	\$95,801.12	\$7,991.76 (plus CAM)
4/1/15 to 3/31/16	\$98,778.15	\$8,231.51 (plus CAM)
4/1/16 to 3/31/17	\$101,741.49	\$8,478.46 (plus CAM)

**RENEWAL TERM RENT rates:** Two (2) 5-year options to renew at 95% of then current market rates.

**PERMITTED USE:** General office use

**SECURITY DEPOSIT:** Waived.

**FIRST MONTH'S RENT:** \$10,985.63 (based on first payment of rent including CAM)

**LAST MONTH'S RENT:** \$11,931.08 (based on final payment of rent including CAM)

**SALES TAX:** Tenant represents that it is a tax-exempt organization and shall present proof of exemption to Landlord. Should Tenant's tax status change during the course of the lease it shall be responsible for all applicable sales tax.

Landlord  
Tenant


## 2. TERM.

Landlord hereby leases to Tenant the above described premises for a term beginning on the Commencement Date and ending at 5:00 p.m. on the Termination Date ("Initial Term") subject to all of the terms and conditions of this Lease. This is not a month-to-month or year-to-year Lease. Landlord shall give Tenant possession of the Premises on the Commencement Date. Notwithstanding, the Landlord shall provide to the Tenant access to the Premises prior to the Commencement Date at no charge to the Tenant for a minimum of thirty (30) days.

## 3. RENT.

Tenant shall pay to Landlord, as rent for the Initial Term and the Renewal Term(s), if any, without offset, demand, set off or counterclaim, at the address from time to time provided by Landlord, the Annual Rent for the applicable Lease Year in monthly installments plus sales tax as follows:

(A) The first monthly installment (or a pro-rated portion thereof if the Commencement Date is not the first day of the month) plus applicable sales tax shall be paid to Landlord simultaneously with Tenant's execution of this Lease. Thereafter, each monthly installment plus applicable sales tax shall be paid in advance on or before the first day of each month. Tenant may or may not be invoiced for rent and the failure to receive an invoice shall not excuse timely rent payment.

(B) If Tenant defaults in the payment of any installment of rent hereunder, such installment shall bear interest at the rate of eighteen percent (18%) per annum from ten (10) days after the day it is due until actually paid. In like manner, all other obligations, benefits, and monies which may become due to Landlord from Tenant under the terms hereof, or which are paid by Landlord because of Tenant's default hereunder, shall bear interest at the rate of eighteen percent (18%) per annum, from ten (10) days after the due date until paid, or in the case of sums paid by Landlord, because of Tenant's default hereunder, from the date such payments are made by Landlord until the date Landlord is reimbursed by Tenant therefor. In addition, Tenant shall pay Landlord a ten percent (10%) late charge on all rent payments. Should Tenant remit a partial payment for any rent or other charges due hereunder, Landlord may apply said partial payment to any rent or other charges owed by Tenant to Landlord as Landlord deems necessary or appropriate in its sole discretion.

(C) Tenant shall pay any increases in the applicable sales tax during this Lease period or any renewal thereof.

(D) The acceptance of partial payments of rent shall not, under any circumstances, constitute a waiver by Landlord of the right to collect the balance of rent due nor affect any notice or legal proceedings which may have been commenced pursuant to this Lease or Florida Statutes.

(E) Tenant agrees to pay a service charge of \$25.00 or five percent (5%) of the amount of the check, whichever is greater, for all dishonored or returned checks. In the event Tenant tenders a check which is returned or dishonored, all future rental payments shall be made in the form of a cashier's check or money order. All rents lost in the mail shall be treated as if unpaid until received by Landlord.

(F) All costs, expenses and obligations, together with all taxes, interest and penalties thereon, required to be paid by Tenant under this Lease, and all expenses Landlord incurs because of Tenant's default under any of the terms or conditions of this Lease, including but not limited to, (i) attorney's fees and costs through appellate proceedings; (ii) all charges for labor, services and materials used in connection with any improvements or repairs to the Premises undertaken by Tenant and/or (iii) taxes and assessments now or hereafter taxed, assessed, imposed or levied by law upon all fixtures and personal property of Tenant placed on, attached to or used in connection with the Premises, shall be deemed

Landlord  
Tenant


Additional Rent and Landlord shall have all rights and remedies with respect to such Additional Rent as are provided herein for nonpayment of the base rental. Any Additional Rent that relates to any delayed performance, nonperformance, or any default by Tenant shall be deemed payable on the first day of the month next following such occurrence or nonoccurrence, unless otherwise stated in this Lease.

#### 4. SECURITY DEPOSIT AND LAST MONTH'S RENT.

(A) A Security Deposit and Last Month's rent equal to the sums set forth in paragraph 1 shall be deposited with Landlord simultaneously with Tenant's execution of this Lease. The foregoing amount will be held by Landlord, without liability for interest, as security for the full and faithful performance by Tenant of each and every term, covenant and condition of this Lease on the part of Tenant to be observed and performed.

(B) If any payment by Tenant under this Lease shall be overdue and unpaid, or should Landlord make payments on behalf of Tenant, or should Tenant fail to perform any of the terms of this Lease, then Landlord may, at its option, and without prejudice to any other remedy which Landlord may have on account thereof, appropriate and apply the entire Security Deposit and Last Month's Rent, and any other monies of Tenant held by Landlord, or so much thereof as may be necessary to compensate Landlord toward the payment of any amount then due from Tenant, or toward any loss, damage or expense sustained by Landlord resulting from such default on part of Tenant, and in such event, Tenant shall forthwith, upon demand by Landlord, restore the Security Deposit and Last Month's Rent to its original sum. In the event Tenant shall fully and faithfully comply with all of the terms, covenants and conditions of this Lease and promptly pay all sums as they fall due, the Security Deposit shall be returned in full to Tenant following the Termination Date and the surrender of the Premises by Tenant in compliance with the provisions of this Lease, less any sum or sums retained by Landlord on account of loss or damage to real or personal property.

(C) Landlord may deliver the Security Deposit and Last Month's Rent to any purchaser, grantee, assignee, or successor of Landlord's interest in the Premises in the event such interest is sold, transferred or conveyed; and thereupon Landlord shall be discharged and released from all further liability with respect to the Security Deposit and Last Month's Rent or their return to Tenant, and Tenant agrees to look solely to the new Landlord for the return of the Security Deposit and Last Month's Rent and this provision shall also apply to any subsequent transferee.

#### 5. INTENTIONALLY DELETED

#### 6. PARKING AND COMMON AREAS.

Subject to the terms and conditions of this Lease, and to reasonable rules and regulations regarding use as prescribed from time to time by Landlord, Tenant shall have non-exclusive use of the parking lot adjacent to the Premises, with up to 37 spaces reserved for the employees. Landlord may from time to time assign limited and particular parking spaces for the sole and exclusive use of Landlord, Tenant or other tenants of the Building, their officers, agents, employees or invitees in such manner as Landlord may deem necessary or appropriate.

The Common Areas referred to in this Lease shall mean all common parking areas, driveways, landscaping areas, lighting, delivery areas, utility areas, lobby/Entry areas and those portions of the Building shared by more than one tenant of the Building and with respect to which one tenant does not have exclusive use or rights. Landlord shall provide maintenance to such Common Areas. However, notwithstanding the foregoing, Tenant agrees to maintain the entry area in a clean and orderly condition. None of the parking and Common Areas will be supervised by Landlord, and Landlord shall not be liable for any injuries, damages, theft or loss to persons or property which may occur on or near such areas.

Neither the parking area nor any portion of the Common Areas in the Building shall be used by

Landlord  
Tenant

*JPS*  
*RLC*



Tenant, or any agent or employee of Tenant, for any advertising, political campaigning or other similar use, including, without limitation, the dissemination of advertising or campaign leaflets or flyers.

#### 7. NO LIENS.

Tenant shall keep the Premises free of liens and encumbrances. Tenant has no authority to create an encumbrance or construction lien on the Premises. If an encumbrance or lien is placed against the Premises and is not removed within sixty (60) days, Landlord may require Tenant to give satisfactory security for its removal in an amount equal to that of the encumbrance or lien with costs, expenses, interest and attorney's fees, including appellate proceedings. Tenant may contest the validity of the encumbrance or lien, but if Tenant fails to do so or to diligently prosecute the contest or to have the encumbrance or lien released, Landlord may release it, with the right in his controlled discretion to compromise it, but with no duty to do so. Tenant shall reimburse Landlord on demand for any sums so expended.

#### 8. USE.

Tenant, its successors and assigns shall use the Premises exclusively for the Permitted Use stated at the beginning of this Lease and for no other use or purpose whatsoever. No use of the premises by Tenant shall violate the terms of any restrictive covenant affecting the Building on the Commencement Date or the terms of any Lease with respect to any portion of the Building and any violation thereof shall constitute a default hereunder. Tenant shall comply with all applicable laws, ordinances, rules and regulations of all governmental authorities respecting the use, operation and activities of the Premises, the Building, the Common Areas, and all portions thereof (including, without limitation, the use of side-walks, streets, approaches, drives, entrances and other Common Areas serving the Premises, by itself, its employees, invitees and licensees), and Tenant shall, at its own expense and subject to Landlord's prior written approval, promptly install any alteration, addition, or improvement to the Premises required by any laws, ordinances, rules and regulations of governmental authorities. Tenant shall not make, suffer or permit any unlawful, offensive or improper use of the Premises, or such other areas, or any part thereof, or permit any nuisance in the Premises or other areas. Tenant agrees to abide by and cause its employees, customers, servants, agents, visitors, licensees, assignees, sublessees and representatives to abide by any rules or regulations promulgated by Landlord, which rules and regulations shall treat all tenants equally, shall not discriminate against Tenant, and shall not unreasonably interfere with the conduct of Tenant's business. Landlord may from time to time during the term of this Lease make reasonable changes and additions to said rules and regulations provided such changes and additions are applicable to all other tenants in the Building. Landlord's failure to enforce any existing or future rules and regulations, either against Tenant or any other tenant in the Building, shall not constitute a breach hereunder or waiver of any rules and regulations. However, any rule or regulation not generally enforced against other Tenants in the Building will not be discriminatorily enforced against Tenant. Tenant's failure to abide by such rules and regulations shall constitute a default under the terms of this Lease in the same manner as if the same were contained herein as covenants.

#### 9. OBSTRUCTIONS.

Tenant shall not store or place any materials of whatsoever kind or nature or any obstructions in the lobby, passageways, stairs or sidewalks abutting the Building or in any of its public portions.

#### 10. SIGNS.

Landlord reserves the exclusive right to control the exterior appearance of the Premises and the Building, including, but not limited to signs, decorations, and advertising of any type visible from the exterior of the Premises or the Building (including those on the interior or on windows or doors), shades, awnings, window coverings of anything whatsoever affecting the visual appearance of the outside of the Premises or Building. Tenant will be allotted a pro-rata share of the existing monument sign, provided its design, location and manner of attachment have the prior written approval of Landlord. Any signs placed will require the prior written approval of the governing authorities.

Landlord  
Tenant

*JPS*  
*AC*

**11. ENTRY.**

Tenant covenants and agrees, all without liability to Landlord and without abatement of Rent, (i) to permit Landlord and the holder of any mortgage on the Building, and their respective representatives, to enter the Premises at all reasonable hours in order to inspect the Premises, to make repairs, replacements or improvements in or to the Premises or the Building, to comply with any laws, orders and requirements of governmental or other authority or to exercise any right reserved to Landlord by this Lease (including the right during the progress of any such repairs, replacements or improvements or while performing work and furnishing materials in connection with compliance with any such laws, order or requirements to keep and store within the Premises all necessary materials, tools and equipment); (ii) to permit Landlord, at all reasonable hours, to show the Premises in connection with any prospective sale of the Building, or any prospective mortgage, or other method of financing or refinancing of the Building; and (iii) that Landlord may, but shall not be obligated to, permit access to the Premises and open the same, whether or not Tenant shall be present, upon demand of any receiver, trustee, assignee for the benefit of creditors, sheriff, marshal or court officer entitled to, or reasonably purporting to be entitled to such access for the purpose of taking possession of or removing Tenant's property, or for any lawful purposes (but this provision and any action by Landlord hereunder shall not be deemed a recognition by Landlord that the person or official making such demand has any right or interest in or to this Lease, or in or to the Premises), or upon demand of any representative of the fire, police, building, sanitation, or other department of their city, state or federal governments or any other governmental authority. During the six months prior to the expiration of the term of this Lease or any renewal term, and at reasonable hours, Landlord may exhibit the Premises to prospective tenants. Landlord shall be permitted access to the Premises upon any emergency. If Tenant shall not be personally present to open and permit an entry into the Premises, at any time when for any reason an entry therein shall be necessary or permissible, Landlord or Landlord's agent may enter the same by a master key, or may forcibly enter the same, without rendering Landlord or such agents liable therefor, and without in any manner affecting the obligations and covenants of this Lease. Nothing herein contained, however, shall be deemed or construed to impose upon Landlord any obligation, responsibility or liability whatsoever, for the care, maintenance or repair of the Premises or of the Building, except as otherwise herein specifically provided.

**12. UTILITIES AND COMMON AREA MAINTENANCE COSTS.**

Landlord shall pay for all refuse collection used on the Premises or Common Areas unless such services are separately metered or charged to the Premises. Tenant shall pay for telephone service, electricity and all other utilities used on their portion of the Premises. Tenant shall also be responsible for their share of the common area maintenance costs, which include, but are not limited to, Lakewood Ranch Association Fees, real property taxes, building insurance and exterior, interior systems, lawn, parking lot maintenance and repair. Commencing with the rental installment due for April 1, 2012, Tenant shall be responsible for CAM monthly installments, based on Tenant pro rata share (63%) of CAM charges. In December of each year of this Lease, the Landlord shall compute and determine Tenant's actual pro rata share of the prior years CAM costs and Tenant shall, within thirty days (30) from receipt of Landlord's invoice, reimburse Landlord for any underpayment (or receive credit for any overpayment) of installments. Landlord shall, using actual CAM expenses expended during that year, calculate and provide Tenant notice of its pro rata monthly CAM charge obligation for the following annual term. CAM charges and the monthly installment obligations relating to same, shall for all purposes hereof be treated as additional rent, due to Landlord with the payment of the base rent provided hereinabove.

**13. TENANT IMPROVEMENTS AND ACCEPTANCE OF THE PREMISES.**

Tenant, at Tenant's sole cost and expense, shall perform and complete all such improvements as Tenant may require as set forth in Exhibit "B" attached hereto and incorporated by reference herein, if any ("Tenant Improvements"). All of the Tenant Improvements shall be performed and completed at Tenant's sole cost and expense and shall be completed in good and workmanlike manner. Landlord's approval of

Landlord   
Tenant 

the plans, specifications and working drawings (all of which are required to be submitted to Landlord) for the Tenant improvements shall create no responsibility or liability on the part of Landlord for their completeness, design sufficiency or compliance with all laws, ordinances, rules and regulations of governmental authorities. Tenant shall, at its own expense, apply for and obtain any required building permits. Landlord shall not be obligated to make any improvements whatsoever to the Premises prior to taking possession. No representations or warranties, express or implied, have been made by or on Landlord's behalf about its condition or compliance with laws, ordinances, rules, and regulations of governmental authorities. With the exception of Landlord's improvements specifically set forth in Exhibit "B", and Landlord's work letter. Tenant shall be deemed to have accepted the Premises in its existing condition and state of repair if Tenant takes occupancy without objecting thereto in writing.

#### 14 TENANT'S CARE OF THE PREMISES.

(A) Tenant shall not make any alterations in or additions or improvements to the Premises without the prior express written consent of the Landlord. Landlord's refusal to grant such consent shall be conclusive.

(B) Tenant shall keep the Premises in a clean, safe and sanitary condition and shall permit no waste to occur to the Premises or fixtures therein or to any additional, alterations or improvements thereto, whether installed by Landlord or Tenant, and shall maintain all interior halls, doors, and windows, if any, in a neat and clean condition and shall not permit rubbish, refuse or garbage to accumulate or any fire or health hazard to exist upon or about the Premises or other areas. All waste or injury to the Building, Premises or fixtures or to any additions, alterations or improvements thereto, caused by moving the property of Tenant or its agents in or out of the building, or any waste or injury whatsoever done by Tenant, its agents, servants, employees, independent contractors, licensees, invitees or visitors, as well as any damage done by water, electricity, fire or other substance due to the neglect of the aforesaid, shall be promptly repaired by Tenant. In the event Tenant fails to comply with the foregoing provisions, Landlord shall have the right, but not the obligation, to enter upon the Premises and to make all necessary repairs, the cost of which shall be borne by Tenant and which shall become due and payable upon delivery of a statement of such costs by Landlord to Tenant or mailing the same, postage prepaid, to Tenant at his last known address.

(C) Tenant agrees to make no alterations, additions or improvements to the Premises without Landlord's prior written consent and all such alterations, additions and improvements shall be performed and completed at Tenant's sole cost and expense and shall be completed in good, first class, workmanlike manner. Landlord's approval of the plans, specifications, and working drawings (all of which are required to be submitted to Landlord) for the alteration, addition or improvement shall create no responsibility or liability on the part of Landlord for their completeness, design sufficiency or compliance with all laws, ordinances, rules and regulations of governmental authorities. All Landlord alterations, additions, or improvements upon or affixed to or in the Premises (including, but not limited to, floor coverings, wall coverings, window treatments, and anything bolted, nailed, plumbed or otherwise secured in a matter customarily deemed to be permanent), whether installed by Landlord or Tenant, shall be deemed to be a fixture inuring to the Building, and shall not be subject to attachment or a construction, materialmen's or similar lien, and shall in any event be and become the property of Landlord and remain upon the Premises and be and become the property of Landlord and remain upon the Premises and be surrendered at the end of this Lease, or Landlord, at its sole option, may require Tenant, at Tenant's expense, to promptly remove any or all of such alterations, additions or improvements and restore the Premises to the same condition as exists either on the Commencement Date or prior to the date of the alteration, addition or improvement. Business machines and such equipment are excluded from this subparagraph.

(D) Tenant shall not use the Premises in any manner which shall invalidate or be in conflict with fire insurance policies covering the Building, or increase the rate of fire insurance on the Building over

Landlord  
Tenant

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that in effect prior to this Lease. If, by any reason of failure of Tenant to comply with the provisions of this subparagraph, then the fire insurance rate shall at the beginning of this Lease or at any time thereafter be higher than it otherwise would be, then Tenant shall reimburse Landlord as additional rent hereunder for that part of all fire insurance premiums thereafter paid by Landlord, which shall have been charged because of such failure or use by Tenant and shall make such reimbursement upon the first day of the month following such payment by Landlord

(E) Tenant shall cooperate fully with Landlord to assure the efficient and economic operation of the Building's heating, air conditioning and plumbing systems and shall contract with a licensed HVAC contractor for a service contract for quarterly maintenance of the HVAC system in the Premises. Tenant shall be responsible for regular maintenance costs up to a maximum of \$500.00 per incident. Repairs or replacements above \$500.00 shall be considered capital improvements, to be paid by Landlord.

(F) Tenant shall not install any equipment which uses a substantial amount of electricity without the prior express consent of Landlord. Tenant shall ascertain from Landlord the maximum amount of electrical current which can be safely used in the Premises. Landlord's consent to the installation of electrical equipment shall be construed to relieve Tenant from the obligation not to use more electricity than the safe capacity. Tenant shall not place a load upon any floor or the premises which exceeds the load per square foot which the floor is designed to carry. All machines and equipment shall be installed in such a manner by Tenant so as to eliminate the transmission of noise, vibration or electrical or other interference from the Premises to other areas of the Building

(G) Tenants shall not penetrate the roof of the Building or place anything thereon without the prior written consent of Landlord. Any roof penetrations must be made by a contractor approved by Landlord. Tenant shall promptly repair any damage or wear to the roof resulting in whole or in part from such use or caused by penetrations made during installation of equipment or by vibration of said equipment. Furthermore, Tenant shall assume and pay for damages of any type suffered by anyone as a result of the above acts.

(H) Tenant agrees to strictly comply with all pertinent laws, ordinances, statutes and regulations whatsoever, of any governmental body of subdivision, incident to its occupancy of the Premises and its use thereof.

(I) At the end of the term or upon termination of this Lease, Tenant shall deliver up the Premises, without delay, in good condition and repair, reasonable wear and tear excepted, and in a broom-clean condition with all glass, doors and windows intact. Any personal property left on the Premises after the termination of this Lease shall be deemed to have been abandoned and Landlord may retain or dispose of same without accountability.

#### 15. QUIET POSSESSION.

Landlord shall, on the Commencement Date of the term of this Lease, as hereinabove set forth, place Tenant in quiet possession of the Premises and shall secure it in the quiet possession thereof against all persons lawfully claiming the same during the entire Lease term and each extension thereof.

#### 16. INSURANCE.

Throughout the term of this Lease and any extension or renewal thereof, Tenant shall maintain in force a policy or policies of public liability insurance (including broad form general liability extension endorsement) insuring Tenant against the claims of all persons or personal injuries or property damage, or both, arising out of or incident to Tenant's use or occupancy of said Premises. Landlord shall be named as additional insured under said policies and Tenant shall deliver certificate evidencing such coverage in an amount of not less than One Million Dollars (\$1,000,000.00) for any property damage or loss from any one accident, and not less than One Million Dollars (\$500,000.00) for injury to any one

Landlord JB  
Tenant [Signature]

person from any one accident. Such certificates shall provide that the coverage cannot be canceled without at least thirty (30) days written notice to Landlord. Tenant, at its sole cost and expense, shall at all times insure and keep insured for the benefit of Landlord and Tenant, as their respective interests shall appear, all of Tenant's fixtures, equipment, signs and tenant improvements in or appurtenant to the Premises, including, but not limited to, all those items installed in or affixed to the Premises as a part of Tenant's work, to the full insurable value thereof against loss or damage by fire, water and other perils ordinarily covered by an extended coverage endorsement. This requirement is promulgated to protect Tenant in the event of roof leaks, among other things. Tenant shall further maintain all such workmen's compensation insurance and other policies of insurance as Landlord may require or as may be required by law. Nothing contained herein shall constitute a waiver by the Tenant of its sovereign immunity or the limitations set forth in Section 768.28, Florida Statutes, as currently in effect or as lawfully amended in the future.

#### 17. TAXES.

All assessments levied on the Building and all other similar charges shall be paid by Landlord, but shall be included in the CAM charge calculations for the building, with Tenant responsible for its pro rata share. All personal property taxes levied on any property located in the Premises shall be paid by Tenant. If any taxes for which Tenant is liable are levied or assessed against Landlord or Landlord's property, and if Landlord elects to pay the same or if the assessed value of Landlord's property is increased by inclusion of personal property, furniture or fixtures placed by Tenant in the Premises, and Landlord elects to pay the taxes based on such increase, Tenant shall pay to Landlord upon demand, that part of such taxes for which Tenant is primarily liable hereunder. Tenant represents it is a tax exempt organization and shall furnish Landlord with proof of such exemption.

#### 18. CASUALTY LOSS.

Landlord has the option to repair or restore the Premises or to terminate this Lease if all or a substantial part of the Premises is destroyed by casualty. If Landlord elects to terminate, Landlord shall notify Tenant of said termination in writing within thirty (30) days after the casualty. If Landlord elects to repair or restore, the rent abates in proportion to the impairment of use that can be reasonably made of the Premises until it is repaired or restored. If the repairs or restorations are not made within one hundred eighty (180) days after the casualty or if a licensed architect in the county certifies that the repairs or restorations cannot be made within that time with reasonable diligence, this Lease may be terminated by Tenant by written notice to Landlord within thirty (30) days thereafter.

#### 19. CONDEMNATION.

If all or a substantial part of the Premises is taken under eminent domain, this Lease shall terminate at the option of either party on the date when the condemning authority takes possession. Tenant has no claim to the condemnation award. If the Lease is not terminated, the rent abates in proportion to the impairment of use that can be made of the Premises.

#### 20. DEFAULT BY TENANT.

The occurrence of one or more of the following is a default under this Lease by Tenant:

- (A) Failure to pay rent or make any other payment required under this Lease within ten (10) days following a due date;
- (B) Failure to comply with any provision of this Lease other than subparagraph (a) if the failure continues for ten (10) days after written notice from Landlord to Tenant; but if the default is one that requires more than ten (10) days to cure, Tenant shall have a reasonable time to cure if he begins curing within ten (10) days after the notice and diligently prosecutes it to completion;
- (C) Assignment of this Lease by Tenant, or the subletting of all or any portion of the Premises

Landlord  
Tenant


without first obtaining the written consent of Landlord as required by the terms of this Lease;

(D) Making a general assignment or arrangement for the benefit of creditors; or being adjudicated a bankrupt; or receiving the benefit of any insolvency, readjustment of debts, reorganization or bankruptcy law, or entering into an agreement of composition with creditors; or having a receiver or trustee appointed to take possession of Tenant's assets on the Premises or his interest in this Lease when possession is not restored to him within thirty (30) days; or the seizing under legal process of Tenant's assets on the Premises or his interest in this Lease when the seizure is not discharged within thirty (30) days;

(E) Vacating or abandoning the Premises for more than fifteen (15) consecutive days,

(F) Ceasing its business operations on the Premises; or

(G) Allowing a lien to be placed on the Premises for services performed or materials provided.

#### 21. REMEDIES ON DEFAULT.

(A) If a default by Tenant occurs, Landlord may:

(1) Immediately re-enter and remove all persons and property from the Premises and place said property in a public warehouse or elsewhere at Tenant's expense without liability;

(2) Relet the Premises or any part of it, for the account of Tenant for the remainder of the term to any tenant at rent and conditions that Landlord deems advisable. Landlord shall credit the rent received on the balance due from Tenant first to any expenses incurred because of the repossession, next to interest and the balance to principal. Landlord may repair or restore the premises if required for reletting. Repossession shall not terminate this Lease unless Landlord gives written notice or termination to Tenant;

(3) Collect each installment of rent or other sum due under this Lease as it becomes due or otherwise enforce any of its provisions that are not being complied with by Tenant;

(4) Await the end of the term of this Lease and then collect all rent or other sums due under it;

(5) Terminate this Lease by written notice to Tenant in which event Tenant shall immediately surrender possession of the Premises and pay Landlord all loss or damages incurred because of Tenant's default including all rent due or to become due, all of which shall become due forthwith.

(B) Notice or demand is not a prerequisite to any remedy unless another part of this Lease provides for notice or demand in which event that provision shall prevail.

(C) In addition to any other loss or damages that Landlord sustains because of Tenant's default, Tenant shall pay all reasonable expenses of repair, alteration, renovation or addition to the Premises required as a result of his tenancy or required to relet the Premises, transfer and storage charges for Tenant's personal property removed from the Premises, and broker's commissions incurred by Landlord in reletting the Premises.

(D) Tenant grants Landlord a lien on Tenant's property located within the Premises to secure all sums due or to become due under this Lease in addition to any statutory lien or right to distrain. Tenant shall not remove his property from the Premises until all money due Landlord is paid. If Tenant's property is removed, the lien continues for a period of six (6) months during which Landlord may seize Tenant's property wherever found and sell it or so much of it as will satisfy all money due Landlord without process. This lien may be enforced by distress regardless of the nature of the money due

Landlord   
Tenant 

(E) All remedies of Landlord are cumulative to each other and to any other remedies given by law. All rights of Landlord on Tenant's default apply to a renewal or extension of this Lease. By making a payment for Tenant or from any security deposit, Landlord does not waive Tenant's default or any right Landlord has because of this default.

(F) Notwithstanding any termination and/or expiration of Tenant's interest under this Lease, Tenant's liability, including but not limited to the payment of all rents and other payments required of Tenant, whether accruing prior to or after the date of termination and/or expiration of this Lease, shall survive and continue, and shall not affect Landlord's right to collect said sums.

## 22. EXCULPATION.

Landlord shall not be liable for any injury to Tenant's business or loss of income from it, or for damage to his personal property or that of his employees, invitees, customers or any other person in or on the Premises, or for injury to Tenant or his employees, agents or contractors caused by casualty or accident, whether the loss, damage or injury in any case results from conditions on the Premises or on other parts of any building of which the Premises is a part or from other sources and regardless of whether the cause or means of rectifying it is inaccessible to Tenant. Landlord shall not be liable to Tenant for any claim or demand arising from any act or omission of any other tenant in any building in which the Premises is located. Landlord and Tenant waive all claims and demands against each other for loss or damages to the property of either located on the Premises or to the Premises caused by any hazard covered by insurance and for which subrogation may be waived under the insurance policies. Both parties shall obtain insurance policies on their respective property or the Premises, as the case may be, that contain provisions permitting waiver of subrogation before loss.

## 23. INDEMNITY.

To the extent authorized by law and subject to the limitations of Section 766.28 Florida Statutes, Tenant shall indemnify Landlord and hold him harmless from any claims or demands arising from:

(A) Tenant's use or possession of the Premises and the conduct of any business by Tenant on the property and anything done or permitted by Tenant in or about the Premises, or any of them;

(B) Any default of Tenant under this Lease;

(C) The negligence of Tenant and his agents, contractors or employees or any of them;

(D) Any damage to the property of Tenant or others or injury to any person on or about the Premises from any cause;

(E) Any legal or administrative proceeding in connection with, or in any way related to the occupancy or use of the Premises by Tenant in which Landlord is made a party without his fault;

(F) All costs and expenses incurred by Landlord in connection with items indemnified against. Tenant shall defend any legal action or proceeding resulting from a claim or demand indemnified against Landlord at Tenant's expense by attorneys satisfactory to Landlord on receipt of written notice from Landlord to do so.

Landlord shall indemnify Tenant and hold him harmless from any claims or demands arising from any and all loss, damages, claim, demand, liability or expense by reason of any damage or injury to persons (including loss of life) or property that may arise or be claimed to have arisen as a result of our in connection with, or in any way related to Common Area and Building, other than the Premises. Landlord shall defend any legal action or proceeding resulting from a claim or demand indemnified against Tenant

Landlord  
Tenant

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at Landlord's expense by attorneys satisfactory to Tenant on receipt of written notice from Tenant to do so.

#### 24. HOLDING OVER.

If Tenant retains possession of the Premises after expiration of this Lease or a timely and properly exercised option to renew or extend, as provided herein, Tenant shall be considered a tenant at will and it shall be deemed a month-to-month tenancy, if the Landlord accepts rent for such holdover period. During each month of the holdover period, Tenant shall comply with all of the terms of this Lease, as though it remained in force and the monthly rent shall be increased to 150% of the monthly rental installment immediately preceding the end of the lease, together with all CAM and extra rent charges applicable under the lease terms. Payment and acceptance of rent is not a renewal or extension of this Lease. Landlord may terminate the holdover period on thirty (30) days written notice to Tenant before the end of any month for which it has accepted a rental payment and may thereafter immediately resume possession of the Premises at the end of the notice month. Notwithstanding termination, the Tenant shall be liable and shall timely pay the full rent and CAM charges for the entire final month of the holdover period, as provided herein.

#### 25. ASSIGNMENT AND SUBLEASE.

(A) Tenant may not assign or sublease this lease without the prior written consent of the Landlord.

Notwithstanding the foregoing Landlord will not consider any proposed assignment of this Lease if any of the following conditions exist: (i) If Tenant has been delinquent in the payment of rent for more than five (5) days for any month prior to such proposed assignment; (ii) If Tenant is in default under the terms of this Lease regardless of significance; (iii) If the proposed assignee's or subtenant's projected use of the Premises involves the use, storage, generation or disposal of Hazardous Substances, as that term is defined in this Lease; or (v) If as a result of the proposed assignment or sublease, Landlord would be subjected to compliance with additional requirements of law or governmental regulations beyond those requirements which are applicable to the assignee or subtenant, including, without limitation, the "American With Disabilities Act."

(B) In the event of such Assignment or Sublease, such Assignment or Sublease shall be evidenced by a written instrument in form and substance reasonably satisfactory to Landlord and a duplicate original of such instrument shall be delivered to Landlord. Any instrument of Assignment shall contain a specific assumption by the assignee of all obligations of the Tenant hereunder. Any Sublease shall provide that it is expressly subject and subordinate to this Lease, and shall contain the written consent of the subtenant to the terms and conditions of this Lease and any mortgage now or hereafter encumbering the property, and to the direct enforcement thereof by Landlord against subtenant. Tenant hereby assigns absolutely and unconditionally to Landlord all of its right, title and interest in and to all subleases now or hereafter in effect including, without limitation, all rents due or to become due from any present or future subtenant, subject to permission hereby given by Landlord to collect subrents for as long as this Lease is current, in good standing, and not in default. Tenant will not directly or indirectly collect or accept any payment of subrent (excluding a security deposit) under any sublease more than one month on advance of the date when same shall become due. In the event Tenant shall sublease all or part of the Premises for rentals in excess of those rentals payable hereunder, Tenant shall pay to Landlord, as additional rent hereunder, all such excess rentals.

(C) Landlord is expressly given the right to assign any or all of its interest or rights under the terms of this Lease.

(D) If Tenant is a corporation and any transfer, sale, pledge, or other disposition of any portion of the stock of Tenant shall occur, or power to vote any portion of the stock of Tenant be changed, such

Landlord  
Tenant

*JB*  
*[Signature]*



action shall be considered an assignment under the terms of this Lease. If Tenant is a trust or partnership, the addition or withdrawal of any partner or change in the beneficial ownership of Tenant shall be considered an assignment under the terms of this Lease.

#### 26. MEDIATION

In the event of any dispute, other than collection of rental payments due, parties agree to submit same to mediation prior to litigating and such process is a condition precedent to filing a lawsuit to resolve the dispute. The parties, if unable to agree on an acceptable mediator, will each choose a mediator who will then meet and choose a third mediator to handle the process. The cost of mediation shall be borne by the parties equally.

#### 27. NOTICES

Until advised otherwise in writing, all notices under this Lease shall be given to Landlord at Landlord's address:

All notices under this Lease to Tenant shall be given to Tenant at Tenant's business address at the Premises as described on Page 1.

#### 28. ESTOPPEL CERTIFICATE.

At any time on not less than three (3) days written request by Landlord, Tenant shall execute and deliver a written statement certifying that this Lease is unmodified and in full force or, if modified, that it is in full force as modified, setting forth the modifications, and the dates to which rent and other charges have been paid in advance and whether Tenant has any claims or demands against the Landlord and, if so, the nature and extent of them. The statement may be relied on by a prospective purchaser or encumbrance of the Premises. The failure of the Tenant to execute and deliver to Landlord the Estoppel Certificate in accordance with the foregoing provisions of this paragraph within the said three (3) day period shall constitute an acknowledgment by the Tenant to any person entitled, as aforesaid, to rely thereupon that this Lease is unmodified and in full force and effect and that the Rent and other charges have been duly and fully paid to and including the respective due dates immediately preceding the date of such notice and the amount of the balance of the Security Deposit (if any) held by Landlord, and shall constitute, as to any person entitled as aforesaid to rely upon such statements, a waiver of any defaults of Landlord which may exist prior to the date of such notice.

#### 29. SUBORDINATION AND ATTORNMENT.

Landlord may sell or encumber the Building of which the Premises is a part, or this Lease, at any time, subject to Tenant's rights and interest which shall be subordinate to any mortgage now or hereafter encumbering the Building. Tenant shall subordinate his interest under this Lease to any mortgage placed on part or all of the property by Landlord and shall execute any instruments required for this purpose. Tenant shall attorn and establish direct privity of estate and contract with and recognize any purchaser of the Building as the Landlord under this Lease. Upon the absolute transfer of the Building to any party assuming Landlord's obligations hereunder, Landlord shall be relieved of any and all obligations to Tenant hereunder.

#### 30. SEVERABILITY.

In case one or more of the provisions contained in this Lease shall be for any reason held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions thereof and this Lease shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein.

#### 31. ENTIRE AGREEMENT.

This Lease constitutes the sole and only agreement of the parties hereto and supersedes any prior understandings or written or oral agreements between the parties respecting the subject matter

Landlord   
Tenant 

within it. No oral promises, representations or affirmation, made contemporaneously with the execution of this Lease shall operate to modify, enlarge, or contradict its express terms. This Lease may be executed in duplicate, each of which shall serve as an original.

**32. MODIFICATION.**

No amendment, modification, or alteration of the terms hereof shall be binding unless the same be in writing, dated subsequent to the date hereof, and duly executed by the parties hereto.

**33. WAIVER.**

No waiver by the parties hereto of any default or breach of any term, condition or covenant of this Lease shall be deemed to be a waiver of any other breach of the same for any other term, condition or covenant contained herein.

**34. BROKERAGE.**

Except for brokers employed by Landlord or brokers representing Tenant acknowledged by separate writing by Landlord, Tenant covenants, warrants and represents to Landlord that there was no broker instrumental in consummating this Lease and that no conversations or prior negotiations were had by Tenant with any such broker concerning the renting of the Premises. Landlord acknowledges its responsibility for compensation for commissions due, if any, for brokers employed or acknowledged by it in writing, if any. Tenant agrees to indemnify and hold Landlord harmless against and from all liabilities, including attorney's fees, arising from any claims for brokerage commissions or finder's fees resulting from any conversation or negotiations had by Tenant with any broker or any other person, other than a broker employed or acknowledged in writing by Landlord.

**35. ATTORNEY'S FEES.**

In the event Tenant breaches any of the terms of this Lease whereby Landlord employs attorneys to protect or enforce its rights hereunder and prevails, then Tenant shall reimburse Landlord for the Landlord's reasonable attorneys' fees as well as court costs and any and all other expenses incurred by Landlord in protecting or securing its rights hereunder.

**36. PARTIES BOUND.**

This agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, legal representatives, successors and assigns when permitted by this agreement. This Lease does not confer any right, claim or privilege on a person or governmental authority not a party.

**37. APPLICABLE LAW.**

This agreement shall be construed under and in accordance with the laws of the State of Florida. This agreement shall not be construed against a party solely because that party prepared it.

**38. OPTION TO RENEW.**

Provided Tenant is not in default under this Lease, Tenant shall have the option to renew this Lease for the number of Renewal Terms set forth in Paragraph 1, if any. Subject to Tenant's exercise of same as hereinafter provided, each Renewal Term will be for the number of years set forth in Paragraph 1, after the expiration of the Initial Term or the immediately preceding Renewal Term. In order to exercise its option to renew, or any of them, Tenant shall mail written notice of the exercise of each renewal option to Landlord at least six (6) months prior to the expiration of the Initial Term or the then existing Renewal Term, as the case may be, but no earlier than Nine (9) months prior to the expiration of the Initial Term or the then existing Renewal Term as the case may be. Where applicable, it shall be a condition to Tenant's right to any Renewal Term that Tenant has exercised its right to the immediately preceding Renewal Term. All of the terms, provisions, covenants, conditions and obligations of this Lease pertaining to the Initial Term shall automatically apply to any Renewal Term. The "Term" of this Lease shall mean and

Landlord             
Tenant

refer to the initial Term and any Renewal Term(s) which are provided to and properly exercised by Tenant, as hereinabove described.

**39. COMMON AREA MODIFICATION AND NAME OF BUILDING.**

Notwithstanding anything to the contrary contained in this Lease, Landlord reserves the right to increase, decrease or otherwise modify or alter the Common Areas. Landlord reserves the right to change the name of the Building at any time, and from time to time, at Landlord's sole discretion.

**40. RECORDING.**

Tenant shall not record this Lease or a memorandum thereof in the public records of any county. Any such recordation shall constitute a breach of this Lease.

**41. HEADINGS AND CONSTRUCTION.**

Headings used in this Lease are for convenience only and shall not be used to interpret or construe its provisions. Each term and provision of this Lease to be performed by Tenant shall be construed to be both a covenant and a condition. Time is of the essence of this Lease. Masculine gender is used in this Lease and includes other genders as the context requires.

**42. LANDLORD'S WARRANTY.**

Landlord represents and warrants that it is the lawful owner of the entire Building and the underlying real estate and is in quiet, peaceful and lawful possession of the entire Building and real estate and has the legal right to enter into this Lease.

**43. LANDLORD AS LIMITED LIABILITY COMPANY.**

The parties understand and agree that the person who signed this Lease is a managing agent for the Building, and the owner of the Building owns the Building as a limited liability company and that neither the managing agent nor the LLC shall have any personal liability for any reason whatsoever arising under this Lease.

**44. RADON GAS.**

RADON IS A NATURALLY OCCURRING RADIOACTIVE GAS THAT, WHEN IT HAS ACCUMULATED IN A BUILDING IN SUFFICIENT QUANTITIES, MAY PRESENT HEALTH RISKS TO PERSONS WHO ARE EXPOSED TO IT OVER TIME. LEVELS OF RADON THAT EXCEED FEDERAL AND STATE GUIDELINES HAVE BEEN FOUND IN BUILDINGS IN FLORIDA. ADDITIONAL INFORMATION REGARDING RADON AND RADON TESTING MAY BE OBTAINED FROM YOUR COUNTY PUBLIC HEALTH UNIT.

**45. HAZARDOUS SUBSTANCES.**

A. Hazardous Waste. "Hazardous Waste" shall mean and include those elements or compounds which are contained in the list of hazardous substances adopted by the United States Environmental Protection Agency (EPA) and the list of toxic pollutants designated by Congress or the EPA or defined by any other Federal, state or local statute, law, ordinance, code, rule, regulation, order or decree regulating, relating to or imposing liability or standards of conduct concerning any hazardous, toxic or dangerous waste, substance or material as now or at any time in effect.

B. Representation and Warranties. Tenant specifically represents and warrants that the use and operation of the Property comply with all applicable environmental laws, rules and regulations, including, without limitation, the Federal Resource Conservation and Recovery Act and the Comprehensive and Liability Act of 1980 and all amendments and supplements thereto and Tenant shall continue to comply therewith at all times. Specifically, and without limiting the generality of the foregoing, there are not now and there shall in the future by any Hazardous Waste located or stored in, upon or at the Property, and there are not now nor shall there be at any time any releases or discharges from the Property.

Landlord  
Tenant


C. Indemnification.

1. Tenant hereby agrees to indemnify Landlord and hold Landlord harmless from and against and all losses, liabilities, including strict liability, damages, injuries, expenses, including attorney's fees of attorneys of Landlord's choice, costs of any settlement or judgment and claims of any kind and every kind whatsoever paid, incurred or suffered by, or asserted against Landlord by any person of entity or governmental agency for, with respect to, or as a direct or indirect result of, the present on or under, of the escape, seepage, leakage, spillage, discharge, emission or release from the Property of any Hazardous Waste (including without limitation, any losses, liabilities, including strict liability, damages, injuries, expenses, including attorneys' fee for attorneys of landlord's choice, costs of any settlement or judgment or claims asserted or arising under the Comprehensive Environmental Response Compensation and Liability Act, any Federal, state or local "Superfund" or "Superlien" laws, and any and all other statutes, laws, ordinances, codes, rules, regulations, orders or decrees regulating, with respect to or imposing liability, including strict liability, substances or standards of conduct concerning any Hazardous Waste), regardless of whether within Tenant's control.

2. The aforesaid indemnification and hold harmless agreement shall benefit Landlord from the date hereof and shall continue notwithstanding payment, release or discharge of this Lease, and, without limiting the generality of the foregoing such obligations shall continue for the benefit of Landlord and any subsidiary of Landlord during and following any possession of the Property thereby or any ownership of the Property thereby, such indemnification and hold harmless agreement to continue forever.

D. Notice of Environmental Complaint. If Tenant shall receive any notice of: (i) the happening of any material event involving the spill, release, leak, seepage, discharge or cleanup of any Hazardous Waste on the Property or in connection with Tenant's operations thereon; or (ii) any complaint, order, citation or material notice with regard to air emissions, water discharges, or any other environmental, health or safety matter affecting Tenant (an "Environmental Complaint") from any person or entity, then Tenant immediately shall notify Landlord orally and in writing of said notice.

E. Mortgagee's Reserved Rights. In the event of receipt of an Environmental Complaint, Landlord shall have the right, but not the obligation (and without limitation of Landlord's rights under this Lease) to enter onto the Property or to take such other actions as it shall deem necessary or advisable to clean up, remove, resolve or minimize the impact of, or otherwise deal with, any such Hazardous Waste or Environmental Complaint following receipt of any such notice from any person or entity having jurisdiction asserting the existence of any Hazardous Waste or Environmental Complaint pertaining to the Property or any part thereof which, if true, could result in an order, suit or other action against Tenant and/or which, in Landlord's sole opinion, could jeopardize the value of the Property. All reasonable costs and expenses incurred by Landlord in the exercise of any such rights shall be secured by this Lease and shall be payable by Tenant upon demand as additional rent.

F. Environmental Audits. If Landlord shall have reason to believe that Hazardous Waste has been discharged on the Property, Landlord shall have the right, in its sole discretion, to require Tenant to perform periodically to Landlord's satisfaction (but not more frequently than annually unless an Environmental Complaint shall be then outstanding), at Tenant's expense, and environmental audit and, if deemed necessary by Landlord, an environmental risk assessment of: (a) the Property; (b) hazardous waste management practices; and/or (c) Hazardous Waste disposal sites used by Tenant. Said audit and/or risk assessment must be by an environmental consultant satisfactory of Landlord. Should Tenant fail to perform any such environmental audit or risk assessment within thirty (30) days after Landlord's request, Landlord shall have the right to retain an environmental consultant to perform such environmental audit or risk assessment. All costs and expenses incurred by Landlord in the exercise of such rights shall be secured by this Lease and shall be payable by Tenant upon demand as additional

Landlord   
Tenant 

rent. Any environmental audit required by Tenant shall be at Tenant's sole cost and expense, and any remediation suggested or requested by such an audit shall be performed by Tenant at Tenant's sole cost and expense.

G. Breach. Any breach of any warranty, representation or agreement contained in this Section shall be a material default hereunder and shall entitle Landlord to exercise any and all remedies provided in this Lease, or otherwise permitted by law.

**46. INTENTIONALLY DELETED**

**47. EXHIBITS.**

The exhibits attached to this Lease are hereby incorporated herein and made a part hereof. Notwithstanding anything to the contrary contained in this Lease, the terms of the Exhibits shall control.

**48. ADA COMPLIANCE.**

Tenant acknowledges that the Premises may constitute a place of public accommodation or a commercial facility under Title III of the American's with Disabilities Act ("ADA") and that the ADA is applicable to both an owner and a lessee of a place of public accommodation or commercial facility. Tenant further acknowledges that, under the ADA any structural alteration to, or change of use as originally permitted by Owner, of the leased premises must comply with accessibility standards set forth in the rules promulgated by the Department of Justice, 28 C.F.R. Sec. 36.101 et. seq. In the event Tenant makes any such change of use of, or alteration to the Premises which would require compliance with Title III of the ADA and the accessibility standards promulgated by the Department of Justice, Tenant agrees to design and build such structural alterations so as to comply with the ADA and the accessibility standards. Tenant hereby agrees to indemnify and hold Landlord harmless from and against any and all liabilities, claims, demands, damages, expenses, fees, fines, penalties, suits, proceedings, actions or causes of action of any and every kind and nature arising or growing out of or in any way connected with any structural alteration of the Premises by Tenant. Nothing contained herein shall be construed to modify the requirement that any alteration to the Premises must have the prior written approval of Landlord, and such approval, if given, shall not be construed to be a waiver by Landlord of Tenant's obligations and agreements as set forth in this paragraph.

**49. WAIVER OF JURY TRIAL.**

LANDLORD AND TENANT WAIVE THE RIGHT TO A TRIAL BY JURY IN ANY ACTION OR PROCEEDING BASED UPON, OR RELATED TO, THE SUBJECT MATTER OF THIS LEASE. THE PARTIES HERETO AGREE THAT VENUE SHALL BE SARASOTA COUNTY. THIS WAIVER IS KNOWINGLY, INTENTIONALLY, AND VOLUNTARILY MADE BY TENANT AND TENANT ACKNOWLEDGES THAT NEITHER LANDLORD NOR ANY PERSON ACTING ON BEHALF OF LANDLORD HAS MADE ANY REPRESENTATIONS OF FACT TO INDUCE THIS WAIVER OF TRIAL BY JURY OR IN ANY WAY TO MODIFY OR NULLIFY ITS EFFECT. TENANT FURTHER ACKNOWLEDGES THAT IT HAS BEEN REPRESENTED (OR HAS HAD THE OPPORTUNITY TO BE REPRESENTED) IN THE SIGNING OF THIS LEASE AND IN THE MAKING OF THIS WAIVER BY INDEPENDENT LEGAL COUNSEL, SELECTED OF ITS OWN FREE WILL, AND THAT IT HAS HAD THE OPPORTUNITY TO DISCUSS THIS WAIVER WITH COUNSEL. TENANT FURTHER ACKNOWLEDGES THAT IT HAS READ AND UNDERSTANDS THE MEANING AND RAMIFICATIONS OF THIS WAIVER PROVISION AND AS EVIDENCE OF THIS ACT SIGNS ITS INITIALS.

  
INITIALS OF TENANT

Landlord  
Tenant


IN WITNESS WHEREOF, the undersigned parties hereto have executed this Lease effective the date first above written.

LANDLORD:  
MCF, L.L.C.

Witnesses:

Christine Pham  
Law Services

By: Jay Schalow  
As Its: Director, Asset Management

Authority

TENANTS:  
Peace River Manasota Regional Water Supply

Witnesses:

Edward M. Peters  
Brude & Crouthorn

By: Patrick J. [Signature]  
As Its: Executive Director

Landlord JP  
Tenant [Signature]

## ASSIGNMENT AND ASSUMPTION OF LEASES AND CONTRACTS

MCF FLORIDA, LLC, a Florida limited liability company ("Assignor"), for and in consideration of the sum of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration to Assignor in hand paid by RANCH PROPERTY HOLDINGS, LLC, a Florida limited liability company ("Assignee"), has GRANTED, SOLD ASSIGNED, TRANSFERRED, CONVEYED, and DELIVERED and does by these presents GRANT, SELL, ASSIGN, TRANSFER, CONVEY, and DELIVER unto Assignee, all the following described properties, rights, and interests arising or used in connection with that certain real property described on Exhibit A attached hereto and incorporated herein by reference (the "Property"):

- (a) all leases, licenses or occupancy agreements that affect or relate to all or any portion of the Property or the improvements located on the Property, including, without limitation, that certain Lease dated September 20, 2011 with Peace River Manasota Regional Water Supply Authority (the "Tenant Lease");
- (b) all assignable contracts and agreements, leases, licenses, agreements and other binding arrangements, whether written or oral, including any amendments and other modifications thereto, relating to the upkeep, repair, maintenance or operation of the Property or the improvements located thereon;
- (c) all other rights, privileges and appurtenances owned by Assignor and directly used in connection with the operation of the Property.

TO HAVE AND TO HOLD the assets hereby sold, transferred and assigned unto Assignee, its successors and assigns forever, and Assignor binds itself and its successors and assigns to forever WARRANT AND DEFEND the assets hereby sold unto Assignee, its successors and assigns, forever against every person whomsoever lawfully claiming or to claim such herein described assets or any part thereof, by, through or under Assignor, but not otherwise.

Assignor represents and warrants to Assignee that Assignor (i) is the holder of the landlord's interest in the Tenant Lease; (ii) has the full right to assign the Tenant Lease, and (iii) the Tenant Lease is in full force and effect and no default or notice of default has been provided thereunder.

It is understood and agreed that, by its execution hereof, Assignee hereby assumes and agrees to perform all of the terms, covenants and conditions of the Tenant Lease on the part of the lessor therein required to be performed from and after the date hereof.

IN WITNESS HEREOF, Assignor has caused this Assignment and Assumption of Leases and Contracts to be executed effective as of the 2 day of November, 2011.

ASSIGNOR:

MCF FLORIDA, a Florida limited liability company

By: [Signature]

As: MANAGING DIRECTOR, MORGAN FINANCIAL CORP  
MORGAN, MORGAN FUND MANAGER

ASSIGNEE:

RANCH PROPERTY HOLDINGS, LLC,  
a Florida limited liability company

By: Ann Marie Marinaccio  
Ann Marie Marinaccio, Manager



**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**REGULAR AGENDA**  
**ITEM 1**

**Water Supply Conditions**

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**Presenter -** Richard Anderson, System Operations Manager

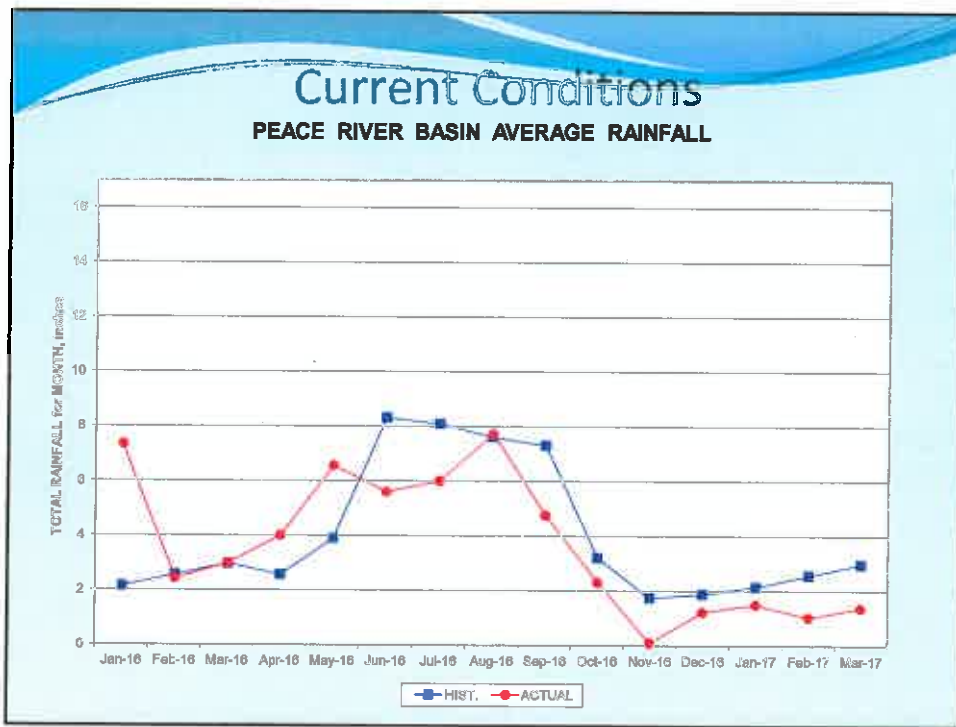
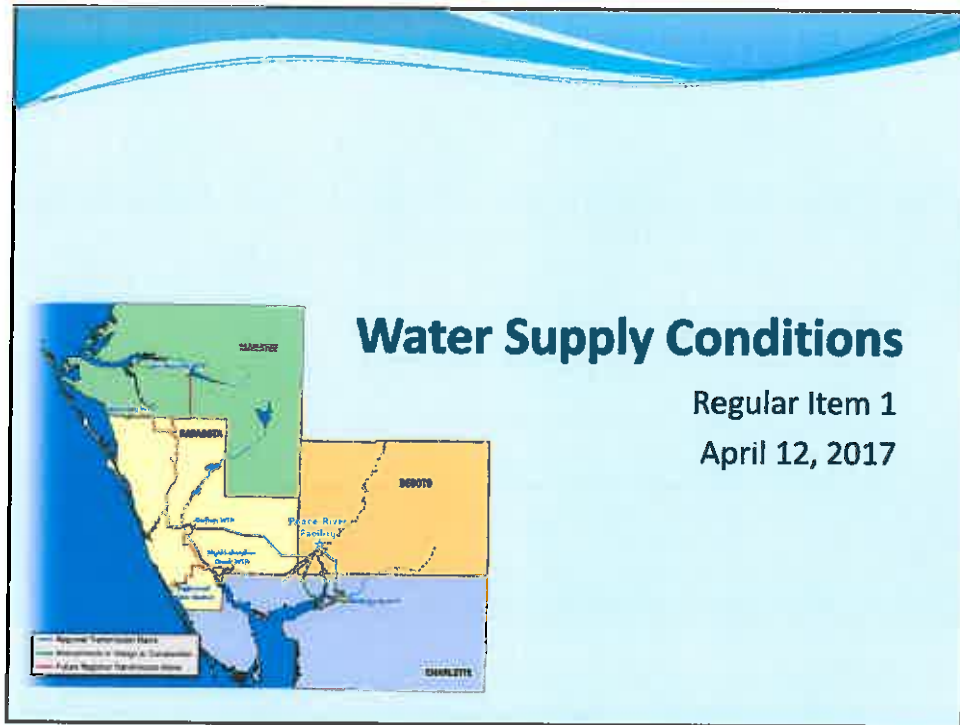
**Recommended Action -** **Status Report.** This item is presented for the Board's information and no action is required.

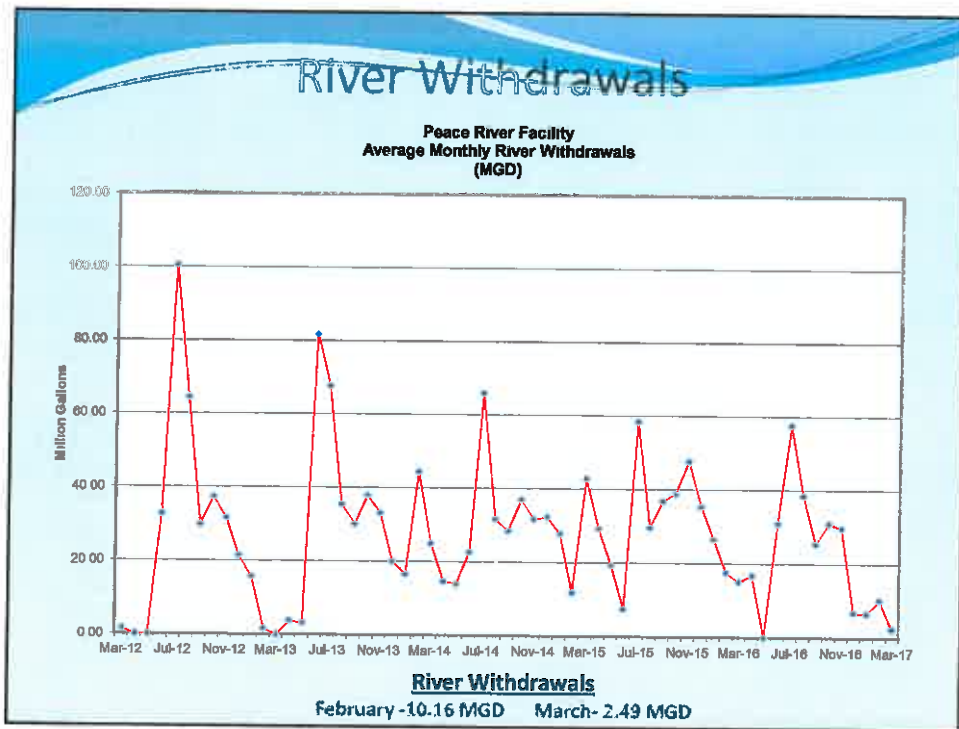
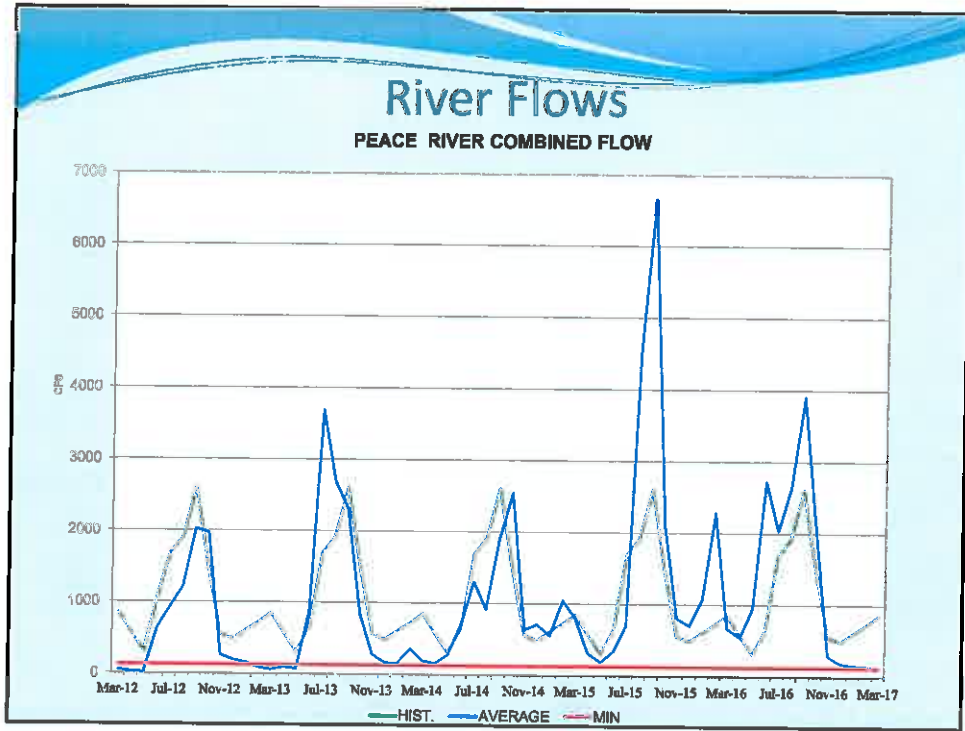
Water Supply Conditions at the Peace River Facility as of March 26, 2017.

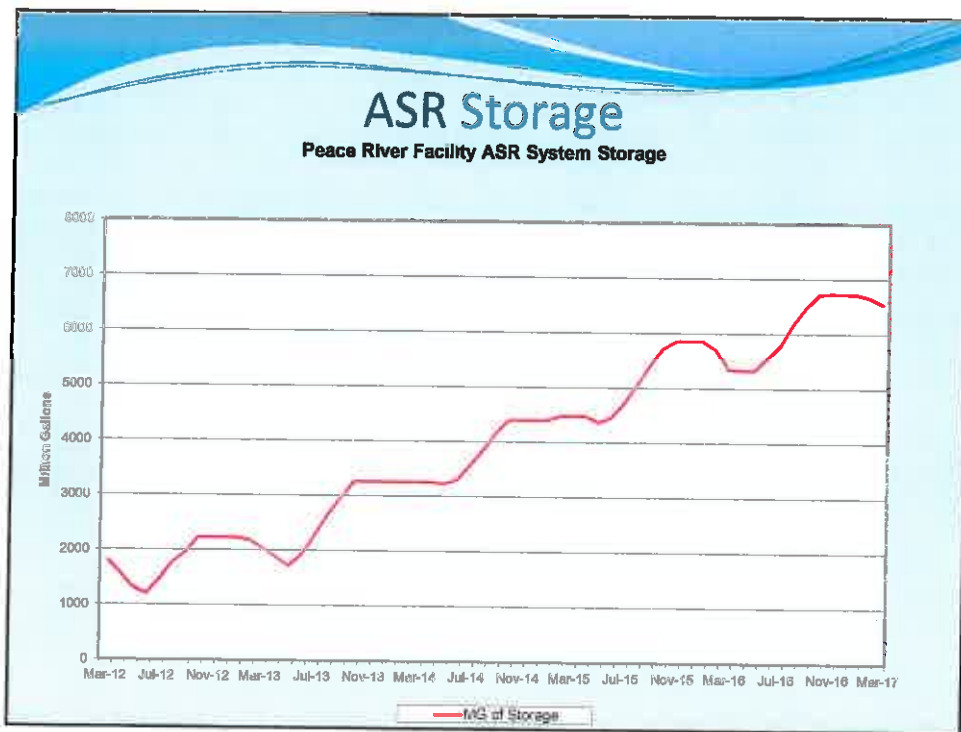
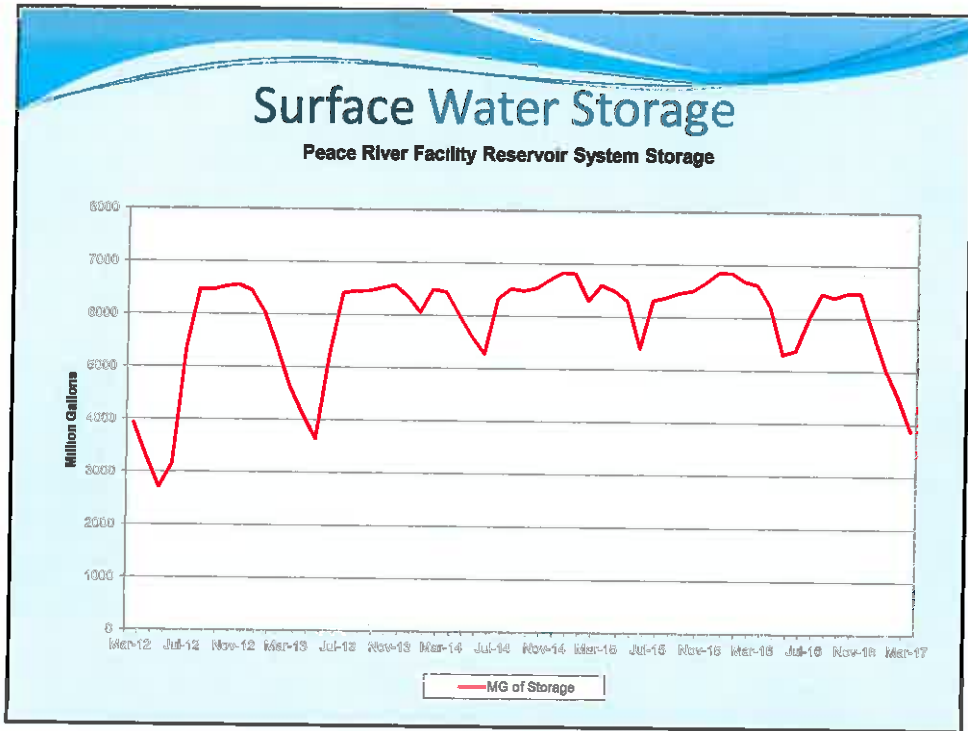
- Water Supply Quantity: Good
- Treated Water Quality: Excellent

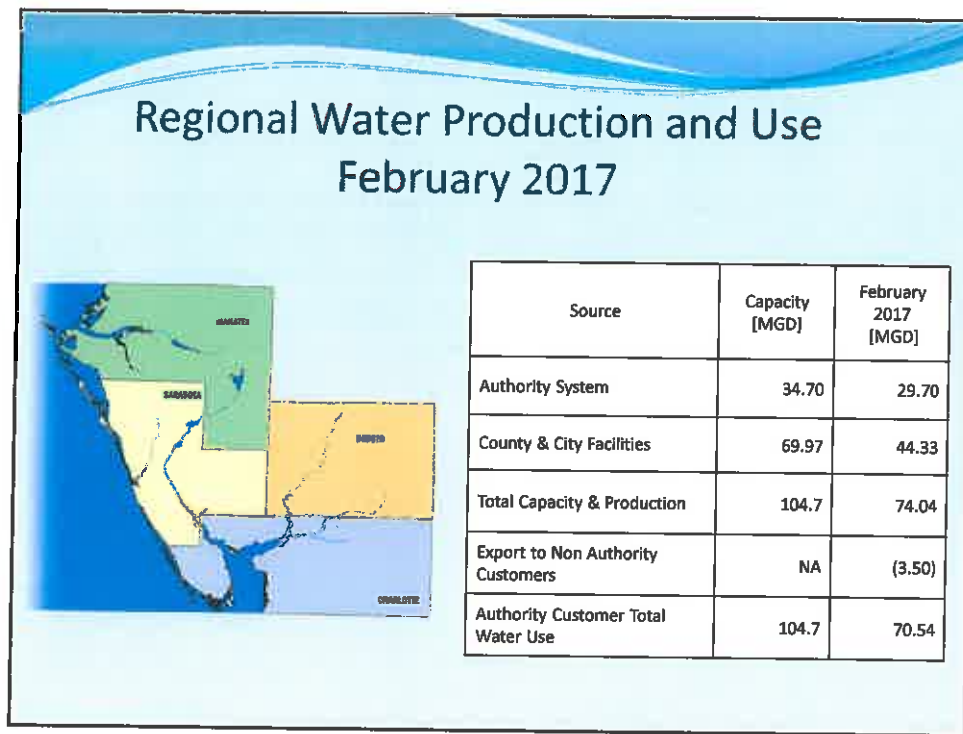
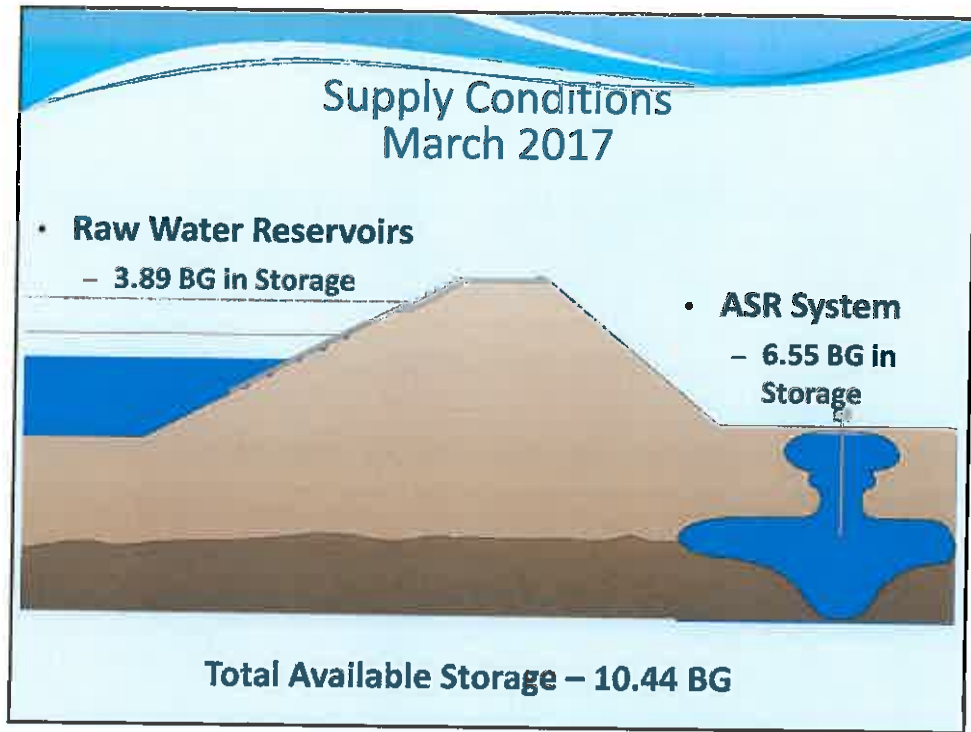
March Water Demand	29.75 MGD
March River Withdrawals	2.49 MGD
<u>Storage Volume:</u>	
Reservoirs	3.89 BG
ASR	<u>6.55 BG</u>
Total	10.44 BG

**Attachments:**  
Presentation Materials







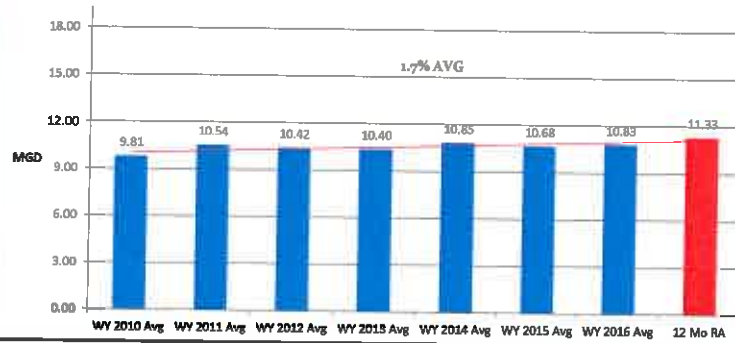


## Charlotte County



Source	Capacity [MGD]	February 2017 [MGD]
Peace River Facilities	16.10	12.19
Charlotte Self Supply	3.17	0.53
<b>TOTAL</b>	<b>19.27</b>	<b>12.72</b>

**ANNUAL AVERAGE USAGE**

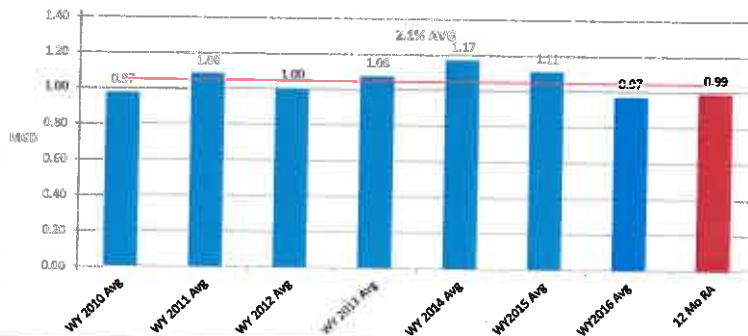


## Desoto County



Source	Capacity [MGD]	February 2017 [MGD]
Peace River Facilities	0.675	1.01
Desoto Self Supply	0.75	0.31
<b>TOTAL</b>	<b>1.425</b>	<b>1.32</b>

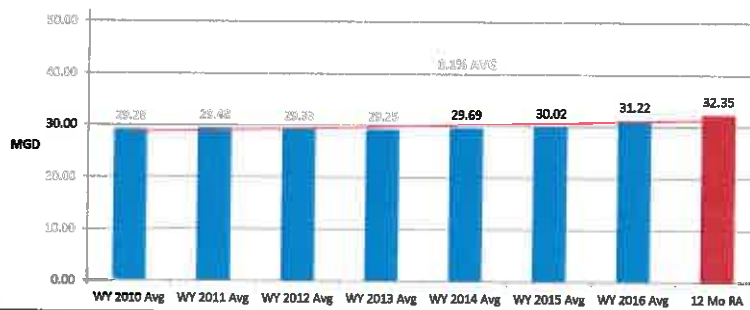
**ANNUAL AVERAGE USAGE**



## Manatee County

Source	Capacity [MGD]	February 2017 [MGD]
Manatee Self Supply	52.00	32.59
Export to Sarasota Co.	NA	4.21
Export to Others	NA	3.50
<b>TOTAL</b>	<b>52.00</b>	<b>40.30</b>

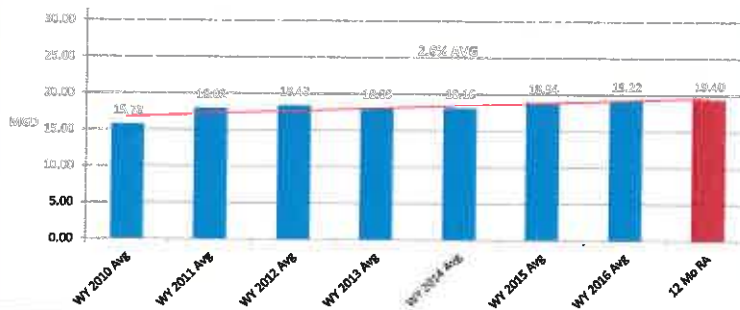
### ANNUAL AVERAGE USAGE



## Sarasota County

Source	Capacity [MGD]	February 2017 [MGD]
Peace River Facilities	15.06	14.84
Import from Others	8.00	4.10
County Self Supply (Wellfields)	10.52	1.71
<b>TOTAL</b>	<b>33.58</b>	<b>20.65</b>

### ANNUAL AVERAGE USAGE

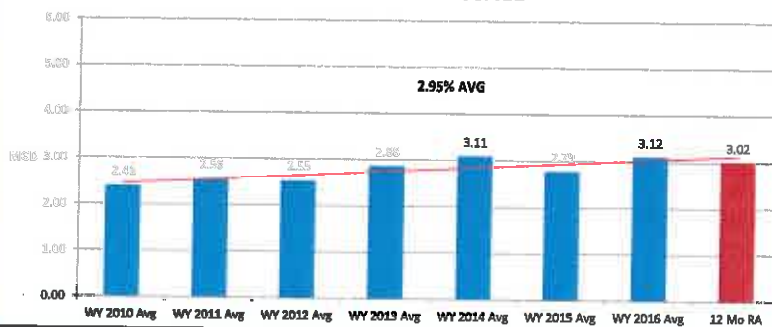


## North Port



Source	Capacity [MGD]	February 2017 [MGD]
Peace River Facilities	2.865	1.66
North Port Self Supply	3.30	1.49
Water Exchanged/Transferred	N/A	0.11
<b>TOTAL</b>	<b>6.165</b>	<b>3.26</b>

**ANNUAL AVERAGE USAGE**

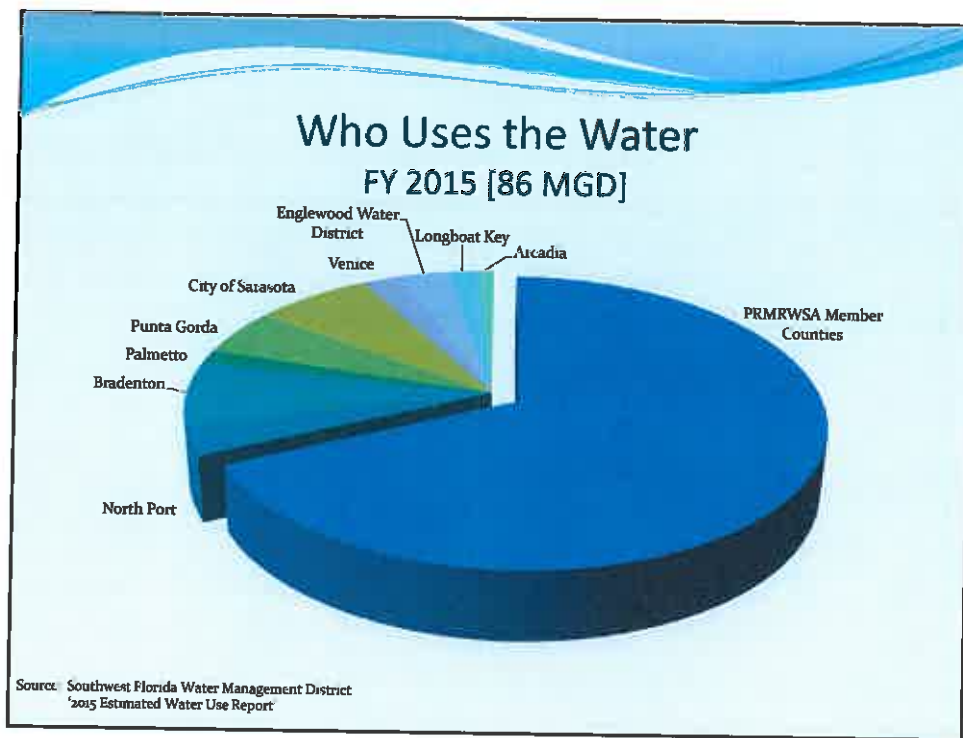
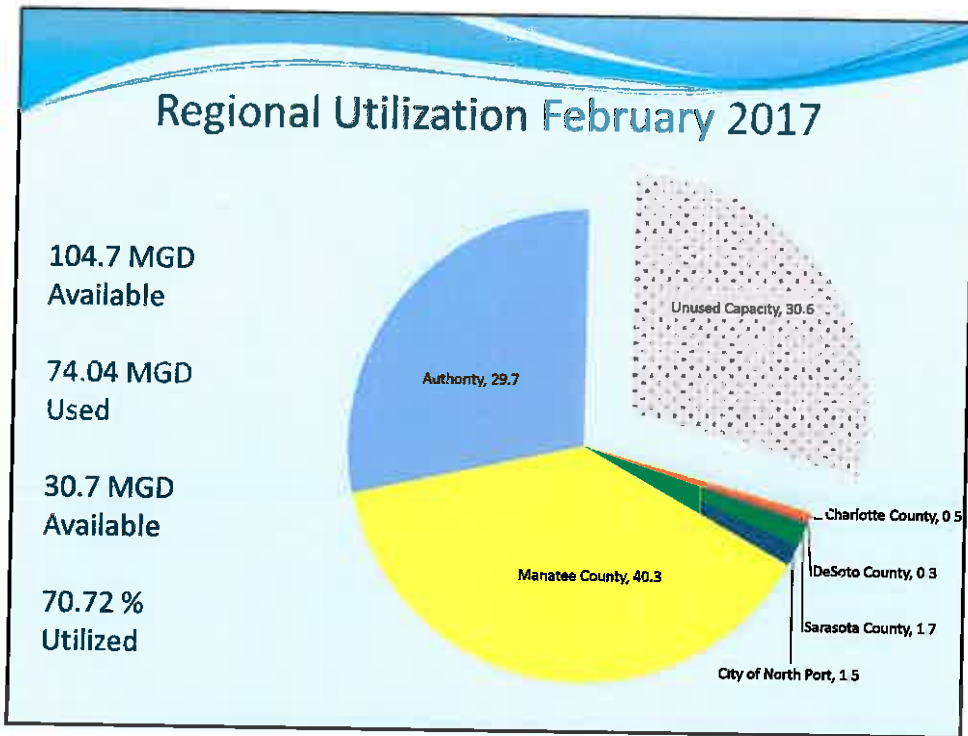


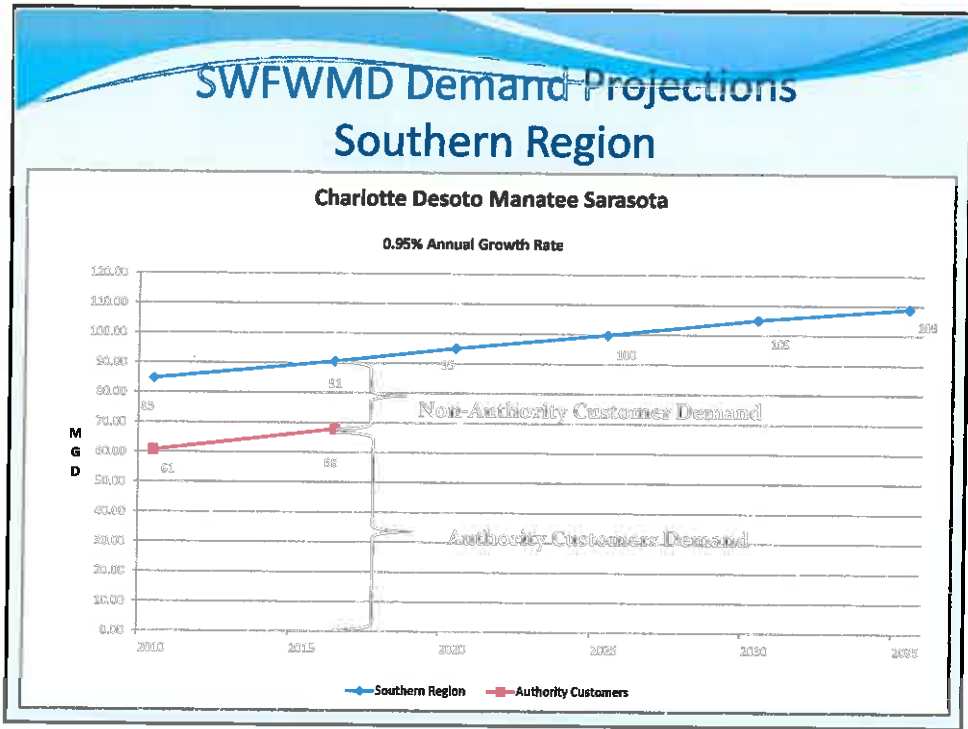
## Regional Demand

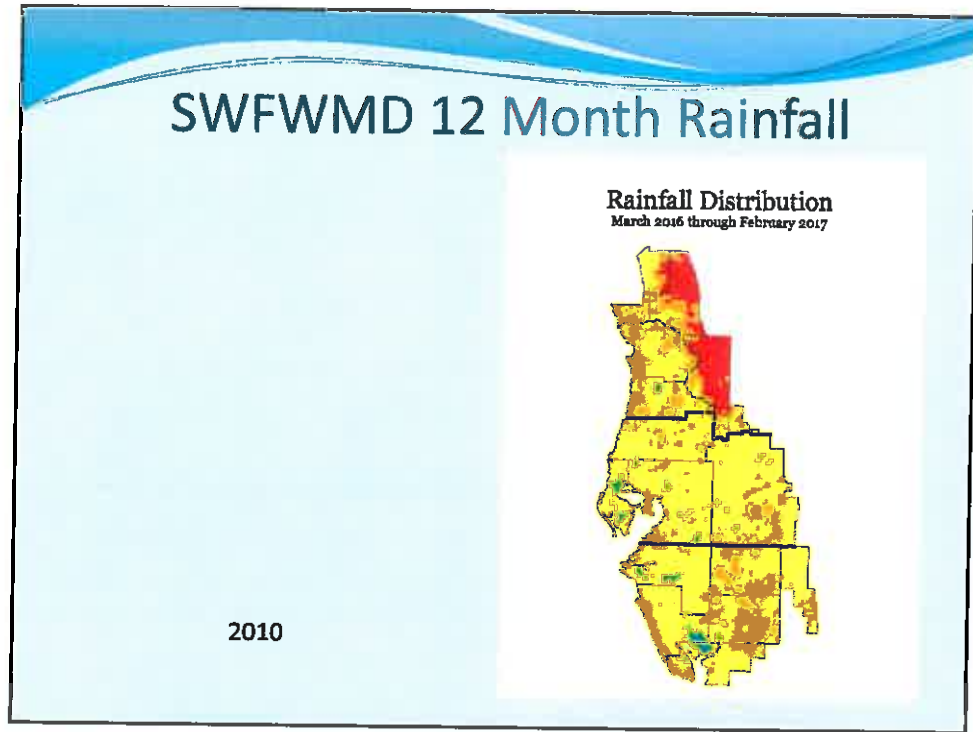
**ANNUAL AVERAGE USAGE**











**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**REGULAR AGENDA**  
**ITEM 2**

**Strategic Plan Implementation Process**

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**Presenter -** John Shearer, Shearer Consulting

**Recommended Action -** **Motion** to approve Strategic Plan Implementation Goals and Objectives.

John Shearer is facilitating the Strategic Plan Implementation Process with the Authority and its members. At the Authority's Board meeting on February 1, 2017, Mr. Shearer reviewed the draft strategic plan goals and objectives (implementation plan), and Board direction was for staff to present the Strategic Plan and draft implementation plan to Authority members' respective BOCCs for comment.

Presentations have been conducted before all Authority members' BOCCs as shown below.

County Commission	Date Presented
DeSoto County	February 28, 2017
Charlotte County	March 14, 2017
Sarasota County	March 22, 2017
Manatee County	April 4, 2017

As a result of feedback from the presentations, a recommended edit is as follows:

**Financial Stability, Object 2-5:**

Initiative 2. Establish a CIP reserve fund for non-R&R, ~~“Uniform Rate”~~ CIP Authority projects in 2018.

Mr. Shearer will present the final Strategic Plan Implementation Goals and Objectives for Board approval.

**Attachments:**

- Tab A Strategic Plan for Peace River Manasota Regional Water Supply Authority [Revised Draft February 1, 2017]
- Tab B Strategic Plan Goals and Objectives

**TAB A**  
**Strategic Plan for Peace River Manasota Regional Water Supply Authority**  
**[Revised February 1, 2017]**

# Strategic Plan for Peace River Manasota Regional Water Supply Authority

October 15, 2014  
[Revised February 1, 2017]

## Overview

The Peace River Manasota Regional Water Supply Authority is a regional water supply authority that provides wholesale drinking water to its member counties and the City of North Port supporting the region's economy and quality of life.

The Authority is an independent special district created and existing pursuant to Florida Statutes and interlocal agreement between Charlotte, DeSoto, Manatee and Sarasota Counties. The boundaries of the Authority consist of all of DeSoto, Manatee and Sarasota Counties and those parts of Charlotte County which are under the jurisdiction of the Southwest Florida Water Management District. The Board of Directors is vested with all the powers of the Authority.

## Statutory Requirements

Pursuant to Section 373.713, Florida Statutes, the Authority shall design, construct, operate, and maintain facilities in locations and at the times necessary to ensure that an adequate water supply will be available to all citizens within the Authority. By statute, the Authority is to maximize the economic development of the water resources while supplying water in such a manner as will give priority to reducing adverse environmental effects.

## Vision Statement

*Through cooperation and collaboration the Authority and its members shall create, maintain and expand a sustainable, interconnected regional water supply system.*

## Mission

*The mission of the Authority is to provide the region with a sufficient, high-quality, safe drinking water supply that is reliable, sustainable and protective of our natural resources now and into the future.*

## Core Values

### I. Cooperation

*Maintaining a strong spirit of cooperation and addressing regional water supply needs through the leadership of the Authority and its member governments.*

Unlike other areas of the state where conflict over water supplies has been intense and protracted, the four-county region of DeSoto, Manatee, Sarasota, and Charlotte Counties has avoided "water wars" by maintaining a strong spirit of cooperation and addressing regional water supply needs through the regional partnership of the Peace River Manasota Regional Water Supply Authority and its members.

### II. Collaboration

*The Authority will seek to develop a significant, constructive role for all local governments in regional water supply planning and management.*

The Authority has reached out to non-member local governments through the facilitation of the Water Alliance for communicating and collaborating with all water providers in the region. The Authority will continue to develop a

constructive role for non-member local governments in regional water-supply planning and management.

### III. Regionalization

*The long-term aim of the Authority is to forge a system that is environmentally sensitive and sustainable, highly interconnected, diversified and affordable.*

The Authority will continue to expand the regional water-supply system to meet projected demand by undertaking projects that yield mutual benefits for its member counties and customers and maximization of economic development of the water resources within the region. The long-term aim is to forge a system that is environmentally sensitive and sustainable, highly interconnected, diversified, and affordable. In striving to achieve this vision, the Authority will develop benchmarks for monitoring performance and measuring progress.

### IV. Diversification

*The Authority will work with its members and water providers in the region to further diversify supplies, integrate additional water supplies into the Authority's regional system, and protect and enhance water-dependent natural resources.*

The Authority will work with its member counties, customers, and other water providers in the region to further diversify the region's water supplies, increase water conservation and wastewater reuse, interconnect facilities across the four-county region, and integrate additional water supplies into the Authority's regional system to support protection or enhance water dependent natural resources.

### V. Financial Stability

*The Authority will maintain financial policies to assure its financial stability while providing affordable water rates that are fair and equitable.*

The Authority seeks to maintain policies to retain the highest possible credit ratings that can be achieved without compromising the mission of the Authority or its Customers and meeting all contractual obligations. The Authority will keep its rates as reasonable as possible while balancing costs with environmental and source-water protection and infrastructure needs. The Authority will actively seek funding from outside sources for projects to reduce costs to the residents of the region.

### VI. Water Advocacy

*The Authority will be a leader for water advocacy through participation in legislative water policy and environmental stewardship for water source, water supply and resource protection.*

The Authority will actively engage in legislative and regulatory proceedings to promote environmental stewardship through science based regulation and water resource development and coordinate with respective agencies including the Florida Department of Environmental Protection and Southwest Florida Water Management District and with other water users.

Website: [www.regionalwater.org](http://www.regionalwater.org)

9415 Town Center Parkway  
Lakewood Ranch, FL 34202  
(941) 316-1776

**TAB B**  
**Strategic Plan Goals and Objectives**



# 1-Regionalization & Diversification

• Mike Coates, Team Lead

Rev 11/18/2016

**Goal:** The long-term aim of the Authority is to forge a system that is environmentally sensitive and sustainable, highly interconnected, diversified & affordable.

**Goal:** The Authority will work with its members and water providers in the region to further diversify supplies, integrate additional water supplies into the Authority's Regional System, and protect and enhance water-dependent natural resources.

## REGIONALIZATION & DIVERSIFICATION

### Objectives

**Objective 1-1** Develop a regional operational protocol for interconnected facilities that supports economical and sustainable use of resources, and emergency operation.

Initiative 1. Formalize Emergency Operational protocols in 2017.

Initiative 2. Establish an operational protocol for interoperability of the interconnected regional water facilities to optimize flexibility and rotational supply in 2019.

**Objective 1-2** Develop a "regional program plan" for capital funding of future regional pipelines and sources with SWFWMD, including sub-regional interconnections and Regional Participation in sub-regional projects of regional significance.

Initiative 1. Develop a comprehensive 5-Year CIP in 2017.

Initiative 2. Develop a comprehensive 20-year CIP in 2017.

Initiative 3. Coordinate regional program plan with SWFWMD in 2018.

**Objective 1-3** Interconnect all major supply facilities to the Regional Transmission System

Initiative 1. Establish processes for when new water supply is developed, how new supply projects are selected, and provide range of options for regional participation in 2017.

Initiative 2. Interconnect all existing major supply facilities to the Regional Transmission System by 2026.

Initiative 3. Interconnect all new major supply facilities to the Regional System as they are developed.

## 2- Financial Stability

- Ann Lee, Team Lead

Rev 11/18/2016

**Goal:** The long-term aim of the Authority is to forge a system that is environmentally sensitive and sustainable, highly interconnected, diversified & affordable.

### FINANCIAL STABILITY

#### Objectives

**Objective 2-1** Strengthen the Authority's bond credit rating to optimize interest rates on future debt refunding and new issuances.

Initiative 1. Formulate strategy for future debt service coverage in 2018.

Initiative 2. Review & optimize reserve funds targets in 2018.

**Objective 2-2** Identify capital improvement funding needs, including, new connections to the regional system and regional pipelines for members and partners.

Initiative 1. Prepare a 5 year capital improvement plan in 2017

Initiative 2. Prepare a 20 year capital improvement plan in 2017

**Objective 2-3** Establish contractual and financial policies that facilitate new connections for both supply from and delivery to the Regional System from Members and partners.

Initiative 1. Establish standard financial delivery & receiving terms/requirements for water conveyed through the Regional System in 2018.

Initiative 2. Establish terms for regional system connection and capacity fees in 2018.

Initiative 3. Evaluate 2-year budgeting to support rate stability in 2017.

**Objective 2-4** Investigate new funding sources and mechanisms outside of SWFWMD and state grants including the State Revolving Loans, WIFIA et. al. (ongoing)

Initiative 1. Participate in state and federal legislative opportunities to create and provide a continuous source for funding of water infrastructure (ongoing).

**Objective 2-5** Review Authority financial policies to ensure they support agency financial goals and modify as needed.

Initiative 1. Perform comprehensive review of Master Water Supply Contract to ensure it meets the current & future needs of Authority Customers (2018 through 2019).

Initiative 2. Establish a CIP reserve fund for non-R&R, "~~Uniform Rate~~" CIP Authority projects in 2018.

### 3- Cooperation & Collaboration

• Richard Anderson, Team Lead

Rev 11/18/2016

**Goal:** Maintaining a strong spirit of cooperation and addressing regional water supply needs through the leadership of the Authority and its member governments.

**Goal:** The Authority will seek to develop a significant, constructive role for all local governments in regional water supply planning and management.

#### COOPERATION & COLLABORATION

##### Objectives

**Objective 3-1** Establish a mechanism for both Current Customer and Partner input into the water supply planning process.

Initiative 1. Working with Local Governments, identify projects of a regional nature that can be implemented using existing infrastructure between Authority, Members/Customers and Partners in 2018.

Initiative 2. Develop region-wide 'Program Plan' to optimize water quality consistency of current and future sources of supply through the Regional System in 2017.

**Objective 3-2** Update Regional Water Supply Master Plan every 5-years or at greater frequency if conditions warrant (next scheduled update 2020).

Initiative 1. Complete an inventory of all existing reclaimed and storm water systems that have potential as future raw water sources in the region for inclusion in the next Regional Water Supply Plan Update in 2019.

Initiative 2. Develop a 'One Water' initiative in conjunction with Regional Water Supply Plan Update in 2019.

Initiative 3. Coordinate process for developing water demand projections on a regional basis with Customers, Partners and SWFWMD in 2019.

**Objective 3-3** Enhance Short term and long-term relationships with all water suppliers in the Authority service area.

Initiative 1. Identify and seek to improve existing infrastructure that could be used cooperatively among Authority Customers and Partners to increase available water for delivery and exchange and maintain connections in readiness to serve status in 2018.

## 4- Water Advocacy

- Pat Lehman, Team Lead

Rev 11/18/2016

**Goal:** The Authority will be a leader for water advocacy through participation in legislative water policy and environmental stewardship for water source, water supply and resource protection.

<b>WATER ADVOCACY</b>	
<b>Objectives</b>	
<b>Objective 4-1</b>	<b>Maintain an ongoing collaborative relationship with Customer government governing bodies and staff.</b>
Initiative 1.	Coordinate a list of water infrastructure needs to support legislative funding in 2017.
Initiative 2.	Develop mechanisms for regional involvement/support on sub-regional projects of regional significance in 2019.
<b>Objective 4-2</b>	<b>Provide a forum for partnership building with local governments, community organizations, business organizations and the public on water issues within the region.</b>
Initiative 1.	Identify key contacts and develop communications strategies in 2017.
Initiative 2.	Promote the value of water to the public and business community to build understanding and support (ongoing).
Initiative 3.	Host outreach initiatives including annual BBQ at Peace River Facility and water forum to engage local and state officials in water issues (ongoing).
<b>Objective 4-3</b>	<b>Conduct routine annual surveys of Customers and Partners leadership to determine effectiveness of the Authority's communications and outreach programs.</b>
Initiative 1.	Develop survey to communicate to Customers and Partners in 2017.

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
BOARD OF DIRECTORS MEETING  
April 12, 2017**

**REGULAR AGENDA  
ITEM 3**

**Alternative Energy Investigation for Peace River Facility**

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**Presenter -** Kevin Morris, Science and Technology Officer

**Recommended Action -** **Status Report.** This item is presented for the Board's information and discussion and no action is required.

Water supply facilities use energy for various needs in the capture, storage, treatment and distribution of potable water. The state of Florida enjoys a warm climate with many sunny days and so solar energy is often considered a viable option to grid-supplied energy. Competition and technological improvements in the science and manufacturing of photovoltaic panels continually push the unit cost of solar energy downward. As energy costs fluctuate, it is prudent to periodically re-evaluate feasibility considerations for alternative energy sources like solar energy. Staff will provide a progress report on an alternative energy investigation completed by Black & Veatch.

**Attachments:**

Tab A B&V Technical Memorandum [March 10, 2017]

## TECHNICAL MEMORANDUM

Peace River Manasota Regional Water Supply Authority  
Synopsis of Recent Significant Solar Power Projects  
Technical Memorandum

B&V Project: 193852  
B&V File: 44.0000  
10 March 2017

To: Kevin Morris, P.E.

From: Andy Westfall, P.E.

### Background

The Peace River Manasota Regional Water Supply Authority (Authority) has been proactive in implementing strategies and improvements to reduce energy consumption and costs associated with operating its regional water supply system. As part of these efforts, the Authority recently tasked Black & Veatch with completing an energy use and efficiency assessment of the Peace River Facility (Facility), which generally includes the River Pump Station, Reservoirs No 1 and 2, Reservoir Pump Station, Aquifer Storage and Recovery (ASR) wells, Surface Water Treatment Plant (WTP) and Transfer Pumps, and High Service Pumping. That effort nears completion under a separate Work Order.

As a continuation of its interest in exploring potential cost-saving opportunities, the Authority requested that Black & Veatch develop a brief technical memorandum to provide a summary of existing solar photovoltaic (PV) facilities in Florida, and elsewhere, and an overview of relevant trends in the solar industry that may be of interest to the Authority.

### Industry Trends

PV installations are becoming more widespread. According to the Solar Energy Industry Association's (SEIA) September 2016 report<sup>1</sup> of major projects greater than 1 MW, at that time there were 16 solar PV facilities 1 MW and larger in operation in the state of Florida accounting for about 150 MW of installed electrical generation capacity. An additional 263 MW of capacity was under construction, and a total of 685 MW was in some stage of development. Additional projects have come under development since that report was published.

The growth of the solar PV industry in recent years in Florida and across the US has been, in part, driven by a Federal tax credit that was originally set to expire in 2016, but which has been extended. The tax credit would not be available to the Authority since it is a tax exempt entity.

The cost for installed solar panels has been dropping over the last few years as demand has risen, including a drop by approximately 30% within about the last 6 months. Costs are very dependent on system size, location, and type of equipment (for example: fixed tilt versus automatic tracking). The cost generally ranges from about \$2 per watt of installed capacity for smaller commercial / industrial installations to less than \$1 per watt for large electric utility-scale projects. For

<sup>1</sup><http://www.seia.org/research-resources/major-solar-projects-list>

conceptual reference, a typical fixed-tilt project in the one megawatt scale would likely cost in the range of \$1.25 - \$1.50 per watt. This cost generally includes engineering, procurement, and construction, but does not include land.

### **Relevant Florida Regulations**

The State of Florida has several regulations in place relating to solar power generation; some that affect the electric utility providers, some that affect residential systems, and some that affect larger commercial type applications.

One regulation affecting potential commercial / industrial users is the state's 2 MW cap on systems for Net Metering. For facilities at or below the 2 MW installed electric generation capacity, the customer receives the benefit of a more favorable utility-power billing rate structure that reduces cost paid to the electric utility. In simplified terms, the customer receives more equitable value for any power fed back to the utility power grid during times of excess production. Facilities over 2 MW in size are not eligible for net metering and therefore receive less cost benefit for the power produced, on a relative basis.

Current Florida State Statutes do not allow Power Purchase Agreements (PPA). In the PPA model, a developer arranges financing for the project, and designs, builds, and operates the systems. The electric power user purchases electricity from the developer for a fixed number of years based on an agreed rate structure. This arrangement requires no capital investment or O&M efforts from the electric power user, only a land lease/use agreement.

### **Energy Needs of Peace River Manasota Regional Water Supply Authority**

As part of the Energy System Optimization Study, Black & Veatch analyzed energy use at the Authority's Peace River Facility (Facility), which generally includes the River Pump Station, Reservoirs No 1 and 2, Reservoir Pump Station, Aquifer Storage and Recovery (ASR) wells, Surface Water Treatment Plant (WTP) and Transfer Pumps, and High Service Pumping. The analyses concluded that in 2016 the average demand was 2.8 MW.

A feasibility study would need to be performed to examine the technical feasibility and business case analysis of a potential solar PV facility to service the Peace River Facility. If performed, such a study should evaluate the optimal size of a facility that would provide best value, as measured through payback period and other metrics. For example, it is likely that the best-value size would be smaller than that needed to provide for the facility's full energy needs, perhaps with no batteries (or limited batteries) and intended to offset utility power use during daylight hours when the Authority generally pays higher electric rates.

The study would also need to take into consideration how the reduction in the use of utility-provided power could impact the unit cost of utility-supplied power under the current complex rate structure and any impacts to rate structure eligibility / availability.

## **Conceptual Solar PV Facility Examples**

The installed electric generation capacity of a solar PV facility represents the peak output potential of the installation. However, the facility does not generate power at night and produces less than peak output during periods of cloud cover and at other times. The capacity factor of a PV facility is the average output divided by the peak output. The anticipated capacity factor varies regionally due to climatic conditions and based on the type of equipment installed. The capacity factor is relatively high in Southwest Florida and estimated to be roughly 25% depending on the type of installation.

The land requirements for a solar PV facility vary depending on the type of equipment installed and other factors. As a general guideline, each MW of installed capacity requires about 5 acres of land.

As a simplified example, a PV facility sized to supply an average of 1 MW of energy in southwest Florida would require an installed generation capacity of about 4 MW. Such a facility would require about 20 acres of land and would have a capital cost in the range of approximately \$5-\$6 million (excluding land), on a high-level conceptual basis.

A PV facility sized to supply an average of 2.8 MW of energy (the Authority's average usage) in southwest Florida would require an installed generation capacity of about 11.2 MW. Such a facility would require about 56 acres of land and would have a capital cost in the range of approximately \$14-\$17 million (excluding land), on a high-level conceptual basis.

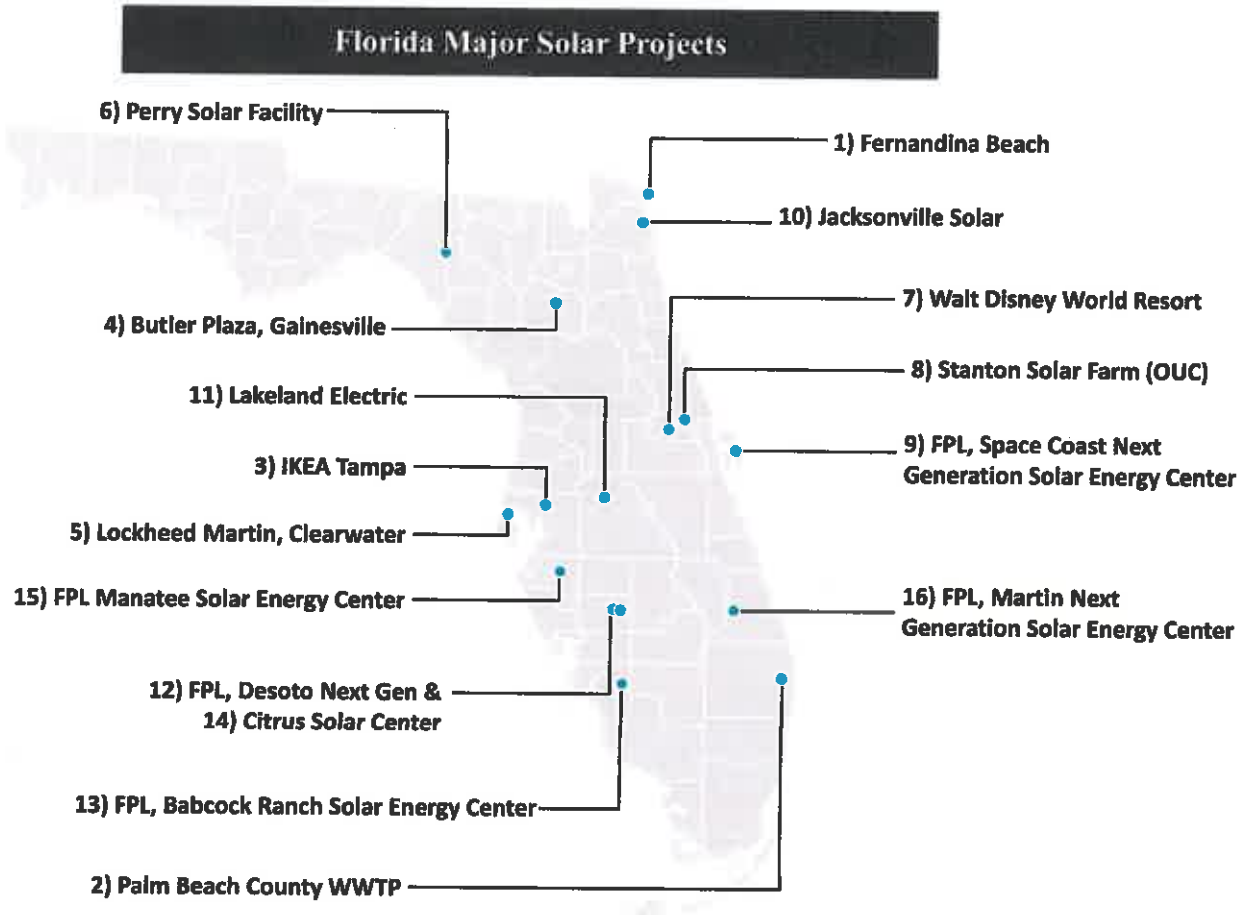
The useful life of solar PV panels is estimated to be 25-30 years. A general annual guideline for operation and maintenance cost is about \$16,000 per MW, but varies with the size and type installation. Such costs would need to be considered as part of a more complex business case analysis in a future feasibility study.

## **Existing Representative Facilities**

Figure 1 shows existing solar PV facilities located in Florida that are in operation or under design / construction. The figure focuses on facilities that have 1 MW or more in installed generation capacity. We have included a limited number of smaller facilities that have relevance for other reasons such as serving a water utility. Following the figure is a table that provides available statistical information on some of the facilities in Florida, and a few facilities in other locations.



Figure 1



**Table 1**

PROJECT NAME	LOCATION	INSTALLED GENERATION CAPACITY (MW)	APPROX. FACILITY SIZE (ACRES)	ADDITIONAL PROJECT INFORMATION	WEB LINKS
1) Fernandina Beach WWTP	Fernandina Beach, FL	Under 1.0	Under 1.0	The Fernandina Beach Wastewater Treatment Plant has 400 Suniva high-efficiency crystalline silicon solar panels and is expected to save around \$1,385 a month.	<a href="http://www.ncflindependent.com/2014/10/22/400-new-solar-panels-considered-for-fb-wastewater-plant-saving-1385-mo-in-electricity-costs/">http://www.ncflindependent.com/2014/10/22/400-new-solar-panels-considered-for-fb-wastewater-plant-saving-1385-mo-in-electricity-costs/</a>
2) Palm Beach County WWTP	Boynton Beach FL	0.165	1	Palm Beach County has Suniva MVX Series 250W Panel Solar Panels. Purchased with help with a ARRA Green Energy Grant.	<a href="http://www.fwea.org/docs/Sustainability_Cycle_PowerPoint.pdf">http://www.fwea.org/docs/Sustainability_Cycle_PowerPoint.pdf</a> <a href="https://www.facebook.com/media/set/?set=a.731151110235704.1073741826.174571512580336&amp;type=3">https://www.facebook.com/media/set/?set=a.731151110235704.1073741826.174571512580336&amp;type=3</a>
3) IKEA Tampa	Tampa, FL	1.2	3.4	IKEA in Tampa, FL is a rooftop system consisting of 4,986 panels installed by REC Solar, Inc.	<a href="http://www.ikea.com/fms/en_US/img/local_store_info/activities/ikea_plugs_in_solar_panels_Tampa_store.pdf">http://www.ikea.com/fms/en_US/img/local_store_info/activities/ikea_plugs_in_solar_panels_Tampa_store.pdf</a>
4) Butler Plaza	Gainesville, FL	1.58	5.97	The Butler Plaza PV fixed panels covers the shopping center and was constructed to sell power to the Gainesville Regional Utilities grid through a feed-in tariff. The initial PV project was installed in 2010 and uses Astonergy and Chint Solar fixed solar panels.	<a href="http://www.seminolefinancialservices.com/portfolio/butler-plaza-solar/">http://www.seminolefinancialservices.com/portfolio/butler-plaza-solar/</a> <a href="http://www.cleantfocus.us/gainesville-fl/">http://www.cleantfocus.us/gainesville-fl/</a>
5) Lockheed Martin	Cleawater, FL	2.25	3.5	The Lockheed Martin facility is in Clearwater Florida and is located over an employee parking lot. The facility is used to offset the facility's electric usage from the local power provider and is Florida's largest private solar array. The system consists of 7,260 solar modules manufactured by Hanwha SolarOne Company.	<a href="http://www.lockheedmartin.com/us/news/press-releases/2015/october/151020_mst-lockheed-martin-parking-catches-sun-power.html">http://www.lockheedmartin.com/us/news/press-releases/2015/october/151020_mst-lockheed-martin-parking-catches-sun-power.html</a>
6) Perry Solar Facility	Perry, FL	5	22	The Perry Solar facility was constructed by Duke Energy in 2016 and provides power to the local grid via the 15,000 panels	<a href="https://news.duke-energy.com/releases/releases-20161013">https://news.duke-energy.com/releases/releases-20161013</a>
7) Walt Disney World Resort	Lake Buena Vista, FL	5	22	The Walt Disney World Resort system consists of 48,000 panels in the shape of Mickey Mouse.	<a href="https://www.duke-energy.com/_media/pdfs/our-company/final-disney-news-release-041216.pdf">https://www.duke-energy.com/_media/pdfs/our-company/final-disney-news-release-041216.pdf</a>
8) Stanton Solar Farm	Orlando, FL	6	35	Stanton Solar features over 25,000 panels and produces electricity which is purchased by Orlando Utility Commission directly.	<a href="http://www.ouc.com/environment-community/solar/solar-at-ouc">http://www.ouc.com/environment-community/solar/solar-at-ouc</a>
9) Space Coast Solar Energy Center	Port Canaveral, FL	10	60	The Space Coast Solar Energy Center was constructed by SunPower Corp in 2010 using 35,000 Solar Panels. The partnership between SunPower and FPL provides for one percent of the Kennedy Space Center's power needs	<a href="https://www.nasa.gov/agency/sustainability/energyandwater/spacecoastsolar.html">https://www.nasa.gov/agency/sustainability/energyandwater/spacecoastsolar.html</a> <a href="https://en.wikipedia.org/wiki/Space_Coast_Next_Generation_Solar_Energy_Center">https://en.wikipedia.org/wiki/Space_Coast_Next_Generation_Solar_Energy_Center</a>

10) Jacksonville Solar	Jacksonville, FL	15	100	Jacksonville Solar consists of 200,000 ground mounted panels manufactured by First Solar.	<a href="https://www.pseq.com/family/holdings/global/solar_source/jacksonville/pdf/jacksonville_release092810.pdf">https://www.pseq.com/family/holdings/global/solar_source/jacksonville/pdf/jacksonville_release092810.pdf</a>
11) Lakeland Electric	Lakeland, FL	20	150	Lakeland Electric is a system spread across 6 sites and can produce approximately 20 MW in total. The system is owned by Sun Edison and purchased directly by Lakeland Electric.	<a href="http://www.theledger.com/news/20150302/lakeland-approves-2-new-solar-farms">http://www.theledger.com/news/20150302/lakeland-approves-2-new-solar-farms</a>
12) DeSoto Next Gen (FPL)	Arcadia, FL	25	235	The FPL Desoto Next Generation Solar Energy Center has 90,500 single-axis tracker solar panels.	<a href="https://www.fpl.com/clean-energy/solar/energy-centers.html">https://www.fpl.com/clean-energy/solar/energy-centers.html</a> <a href="https://en.wikipedia.org/wiki/DeSoto_Next_Generation_Solar_Energy_Center">https://en.wikipedia.org/wiki/DeSoto_Next_Generation_Solar_Energy_Center</a>
13) Babcock Ranch Solar Energy Center (FPL)	Olga, FL	75	443	Completed and connected to FPL's smart grid at the end of 2016. The facility features 338,778 Hanwha Q PLUS L-G4 modules which provides the town with 100% of the power needs.	<a href="https://www.babcockranch.com/worlds-first-solar-powered-town-under-construction-in-southwest-florida/">https://www.babcockranch.com/worlds-first-solar-powered-town-under-construction-in-southwest-florida/</a> <a href="http://www.curbed.com/2016/4/22/11480578/solar-power-babcock-ranch-city-florida-array-kitsun-partners">http://www.curbed.com/2016/4/22/11480578/solar-power-babcock-ranch-city-florida-array-kitsun-partners</a>
14) Citrus Solar Center (FPL)	Arcadia, FL	75	841	FPL Citrus Solar Energy Center, which is being built on 841 acres in DeSoto County, Fla., near the site of FPL's first large-scale solar power plant. The facility features 338,778 Hanwha Q PLUS L-G4 modules.	<a href="http://www.sun-sentinel.com/business/fl-fpl-completes-solar-plants-20170113-story.html">http://www.sun-sentinel.com/business/fl-fpl-completes-solar-plants-20170113-story.html</a> <a href="http://newsroom.fpl.com/2016-02-11-FPL-breaks-ground-on-three-new-solar-power-plants-that-will-triple-the-amount-of-solar-it-provides-its-customers">http://newsroom.fpl.com/2016-02-11-FPL-breaks-ground-on-three-new-solar-power-plants-that-will-triple-the-amount-of-solar-it-provides-its-customers</a>
15) Manatee Solar Energy Center (FPL)	Parish, FL	75	762	The FPL Manatee Solar Energy Center will consist of 338,778 Hanwha Q PLUS L-G4 modules.	<a href="http://www.sun-sentinel.com/business/fl-fpl-completes-solar-plants-20170113-story.html">http://www.sun-sentinel.com/business/fl-fpl-completes-solar-plants-20170113-story.html</a> <a href="http://newsroom.fpl.com/2016-02-11-FPL-breaks-ground-on-three-new-solar-power-plants-that-will-triple-the-amount-of-solar-it-provides-its-customers">http://newsroom.fpl.com/2016-02-11-FPL-breaks-ground-on-three-new-solar-power-plants-that-will-triple-the-amount-of-solar-it-provides-its-customers</a>
16) Martin Next Gen Solar Energy Center (FPL)	Martin County, FL	89	500	Hybrid solar and natural gas facility, opened in 2010, solar (or gas) heated steam generates power. Total plant capacity is 1,150MW when using all generators.	<a href="https://en.wikipedia.org/wiki/Martin_Next_Generation_Solar_Energy_Center">https://en.wikipedia.org/wiki/Martin_Next_Generation_Solar_Energy_Center</a> <a href="https://www.fpl.com/clean-energy/solar/energy-centers.html">https://www.fpl.com/clean-energy/solar/energy-centers.html</a>
City of Boulder WWTP	Boulder, CO	1	7	The City of Boulder Colorado has a 1 MW array used to help offset the cost of electricity purchased. The system features approximately 4,400 Solon Blue 220 modules located adjacent to the plant. The solar system replaces 15% of the electricity purchased.	<a href="http://www.solon.com/us/Application_Sheets/SOLON_Solutions_for_Wastewater_Facilities.pdf">http://www.solon.com/us/Application_Sheets/SOLON_Solutions_for_Wastewater_Facilities.pdf</a>
Roger Road WWTP	Pima County, AZ (near Tucson)	1	8	Roger Road WWTP in Pima County Arizona, near Tucson, and is used to help offset the cost of electricity purchased. The city has just under 4,000 Solon Blue 270 modules located adjacent to the plant. The solar system replaces 15% of the electricity purchased.	<a href="http://www.solon.com/us/Application_Sheets/SOLON_Solutions_for_Wastewater_Facilities.pdf">http://www.solon.com/us/Application_Sheets/SOLON_Solutions_for_Wastewater_Facilities.pdf</a>
Elon University	Alamance County, NC	3	12	The Elon University solar facility is located near the Elon campus and the power is purchased by the local power utility. The university leases the land to a private company that owns and maintains the panels. The project features 9,900 CSUN Polycrystalline modules.	<a href="http://www.elon.edu/docs/web/bf/sustainability/loy%20Solar%20Farm%20Fact%20Sheet.pdf">http://www.elon.edu/docs/web/bf/sustainability/loy%20Solar%20Farm%20Fact%20Sheet.pdf</a>

American Municipal Power (GM Plant Facility)	Napoleon, OH	3.54	21	<p>The American Municipal Power (AMP) facility in Napoleon, OH is primarily used to help power a General Motors plant in Napoleon. Approximately 1.8 MW is used at the GM Facility, the remainder is fed to the local grid. The facility features Nextrex's 1,000 V DC modules</p>	<p><a href="https://www.amppartners.org/generation/solar-power-and">https://www.amppartners.org/generation/solar-power-and</a>  <a href="http://www.greenenergyohio.org/page.cfm?pageID=3352">http://www.greenenergyohio.org/page.cfm?pageID=3352</a></p>
Lake Pleasant WTP	Phoenix, AZ	7.5	27	<p>The Lake Pleasant Water Treatment Plant in Phoenix Arizona has a 7.5 MW solar array. The system is expected to meet 70% of the plant's needs. There are just under 23,000 SunPower Corp. panels located adjacent to the plant.</p>	<p><a href="http://www.prnewswire.com/news-releases/phoenix-water-treatment-goes-solar-187008941.html">http://www.prnewswire.com/news-releases/phoenix-water-treatment-goes-solar-187008941.html</a></p>
American Municipal Power	Bowling Green, OH	20	165	<p>The American Municipal Power facility in Bowling Green Ohio was developed through a PPA where the electricity is sent to AMP local grid. The facility consists of over 85,000 panels spread across the site.</p>	<p><a href="https://www.amppartners.org/generation/solar-power">https://www.amppartners.org/generation/solar-power</a></p>

April 12, 2017  
Board Meeting  
Regular Item # 3

### Alternative Energy Investigation for the Peace River Facility

## Fixed Facility Electrical Consumption



Air Compressors



Sump Pumps/Lift Stations



Internal/External Lighting



Analyzers/Sensors



Control Systems



PLCs



HVAC

## Variable Energy Consumption



High Service Pumping



Raw Water Pumping



Transfer Pumping

Pumping is the major element of energy use



Mixers



Sludge Belt Presses



ASR Well Pumping

## How Much Does it Cost to Fill Your Tank?

\$2 

\$7 

\$18 

\$52 

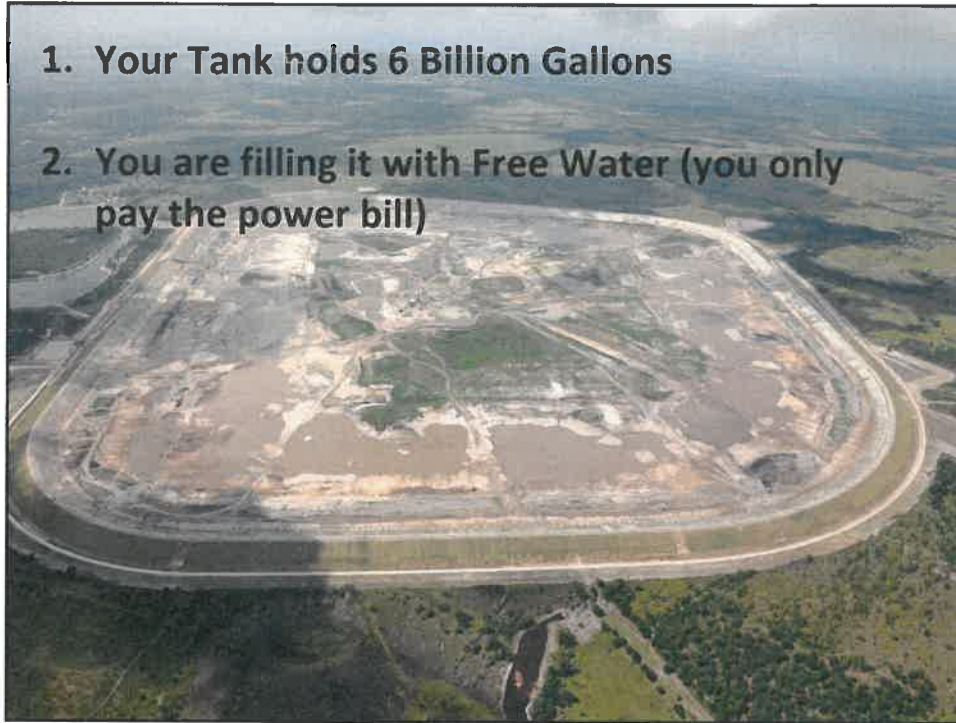
\$500 

### Key Data Needed

- 1) How big is the tank?
- 2) What are you putting in it?

**1. Your Tank holds 6 Billion Gallons**

**2. You are filling it with Free Water (you only pay the power bill)**



**0.8 BG**



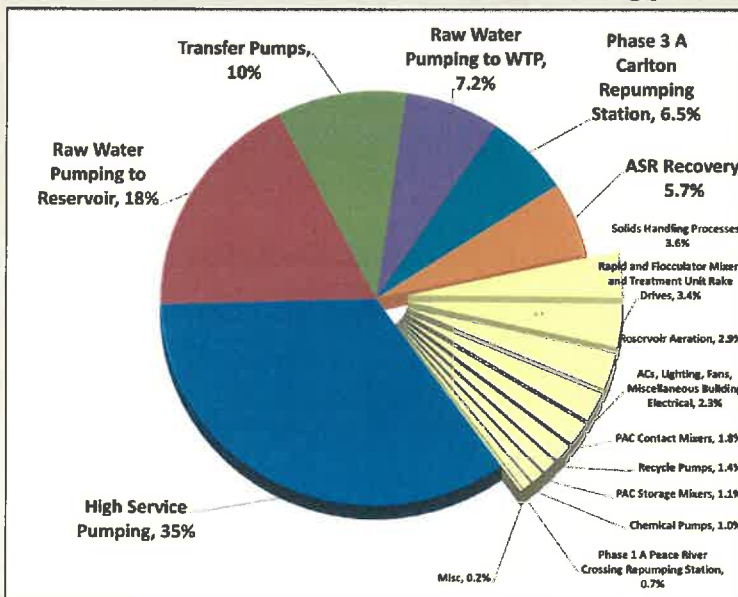








**Top 6 Energy Consumption Activities involve Pumping and Account for 82% of Energy Budget**



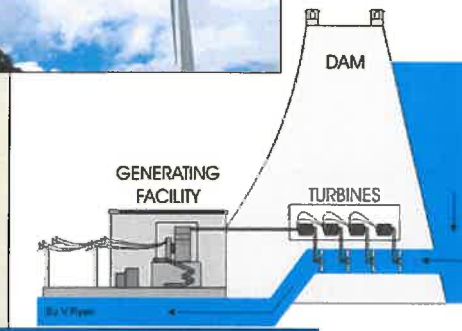
## Alternative Energy Sources



- **Wind Power** (to be cost effective, must have prevailing directional movement)



- **Hydroelectric** (must have constant flow with significant pressure drop)



- **Solar** (needs long sunny days)



Our Average Instantaneous Energy Use  
is 2.8 MegaWatts  
*which is equivalent to:*



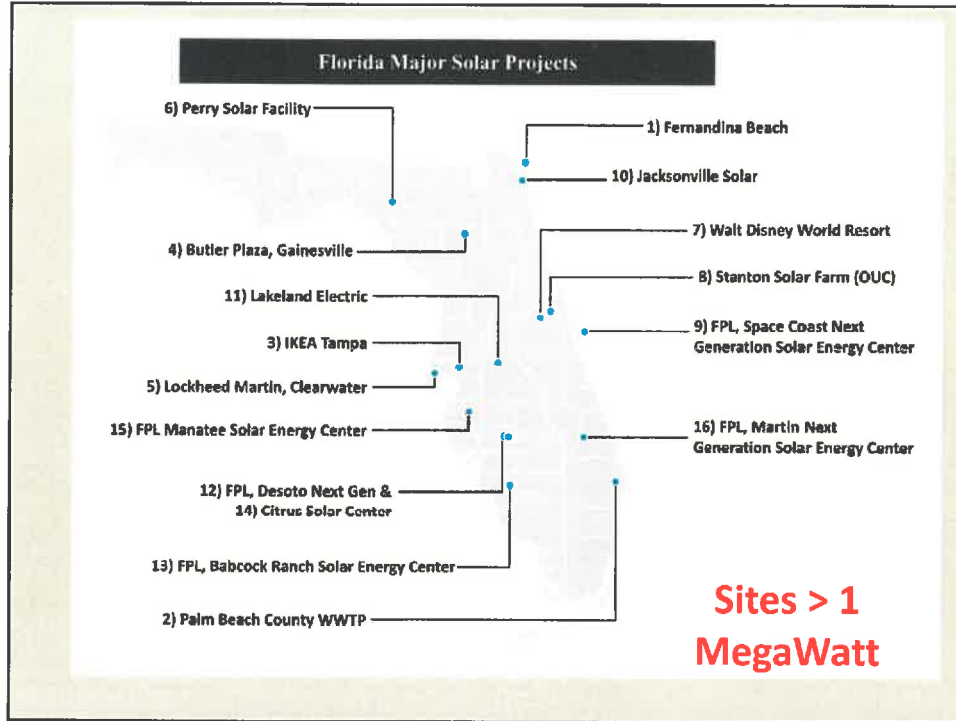
46,000  
60 Watt light bulbs

or



2,500 homes

So Where Are Large Solar Energy  
Installations in Florida?



## Solar Power Project to Fill Our Needs

- 2.8 MW average energy demand
- Would Require 11.2 MW installed capacity
- 56 acres of land
- \$14 - \$17 Million capital cost
- \$200,000/year in O&M
- Payback Analysis is Complex:
  - Could jeopardize favorable rate with FPL that currently save us \$500,000/year
  - How to program \$600,000/year in annualized panel replacement costs (panel life = 25 years)?
  - Battery lifecycle and legacy waste disposal costs?

***PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
BOARD OF DIRECTORS MEETING  
April 12, 2017***

**ROUTINE STATUS REPORTS  
ITEM 1**

**Hydrologic Conditions Report**

## MEMORANDUM

**Project:** Hydrologic Conditions Report  
**Date:** April 12, 2017  
**Developed By:** Mike Coates, Deputy Director

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This memorandum summarizes rainfall and surface water conditions, and the Authority's current water storage and supply conditions for the month of March 2017, and the preceding 12-month period.

### Rainfall Conditions & Projections

Rainfall in the Peace River Basin for the past 12-months is about 11 inches below-normal. This data covers most of the month of March which is typically a relatively low rainfall month (see Table 1). Rainfall for the month of March 2017 totaled about 1.36 inches while the historical average rainfall for the full month of March is almost 3 inches.

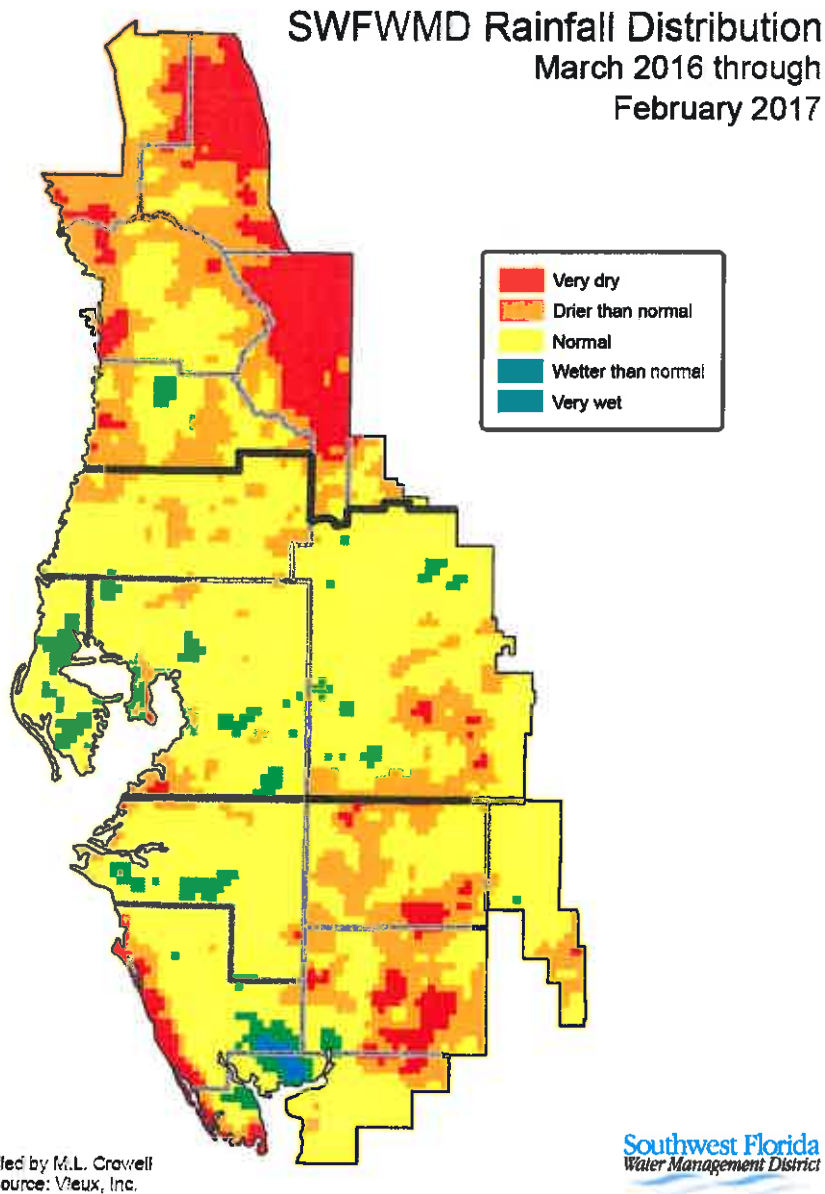
Region-wide rainfall conditions reported by SWFWMD for the 12-month period ending February 2017 are shown in Figure 1 (this is most up-to-date map available). Conditions shown on Figure 1 indicate dry to very dry conditions in most of the Peace River Basin and generally normal conditions in the remainder of the the Authority service area during the past 12-months.

Projections for the next three months (April - June) from NOAA are for above-normal temperatures and near-normal rainfall for southwest Florida. The NOAA extended forecast is for ENSO neutral conditions (neither El Nino nor La Nina condition) through mid summer, with an increased probability of El Nino conditions developing in the second half of 2017. El Nino conditions tend to weaken tropical storm activity in the summer and fall and support cooler and wetter than normal winter conditions.

Table 1 (Peace River Basin Rainfall - Inches)

Item	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Total
<b>Long-Term Avg.</b>	2.56	3.89	8.31	8.09	7.60	7.30	3.19	1.73	1.90	2.10	2.56	2.96	52.2
<b>Actual Past 12 Months</b>	4.0	6.56	5.60	6.00	7.73	4.73	2.31	0.04	1.21	0.48	1.02	1.36	41.1
<b>Difference</b>	1.44	2.67	-2.71	-2.09	0.13	-2.57	-0.88	-1.69	-0.69	-1.62	-1.54	-1.60	-11.1

Figure 1 (SWFWMD Rainfall Conditions Map)



### River Flow Conditions

River flow conditions in the U.S. Geological Survey gage at “Peace River at Arcadia” (about 15 miles upstream of the Authority’s intake) is one of the gages used to calculate how much water the Authority can withdraw from the river each day. March 2017 flow in the “Peace River at Fort Meade” (upper part of the watershed) and “Peace River at Arcadia” (lower part of the watershed) were below average as a result of low rainfall conditions in the basin for the past 7 months. Figure 2 shows the Fort Meade and Arcadia gauge locations in the Peace River basin relative to the Peace River Water Treatment Plant location. Figures 3 and 4 show daily flow measurements at Fort Meade and Arcadia respectively for the past 13 months (blue) relative to the long-term average conditions (orange).

Figure 2 (Peace River Basin showing selected gage locations and Location of PRF)

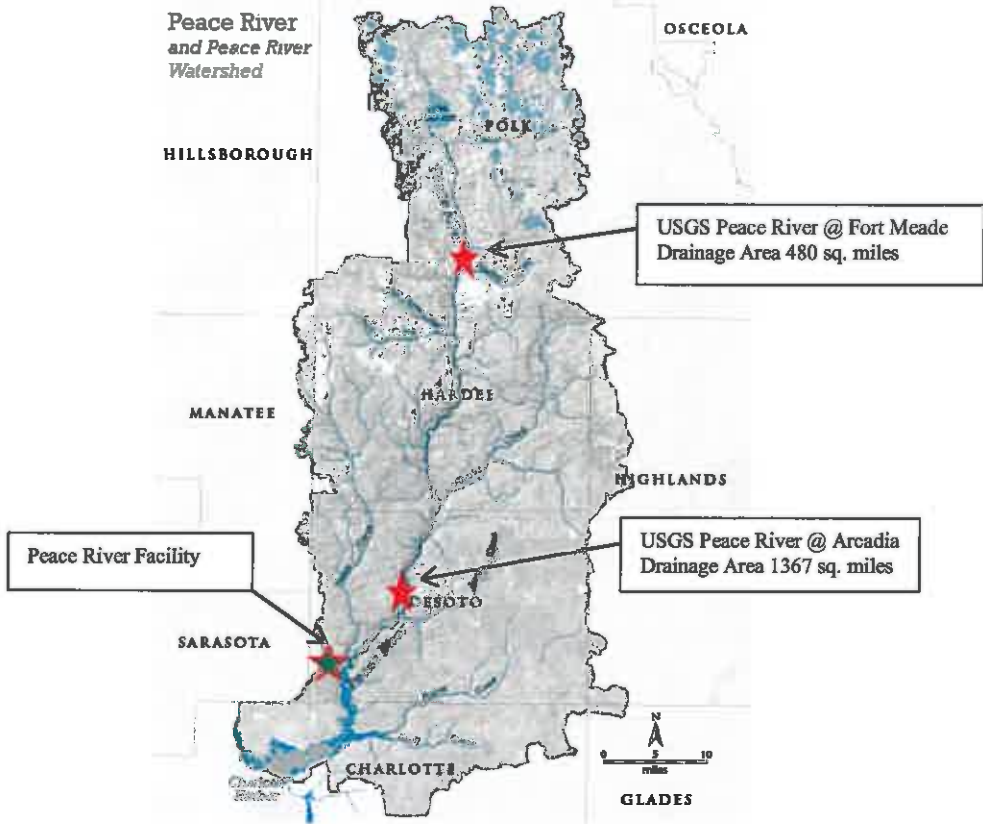


Figure 3 (Peace River Flow @ Fort Meade)

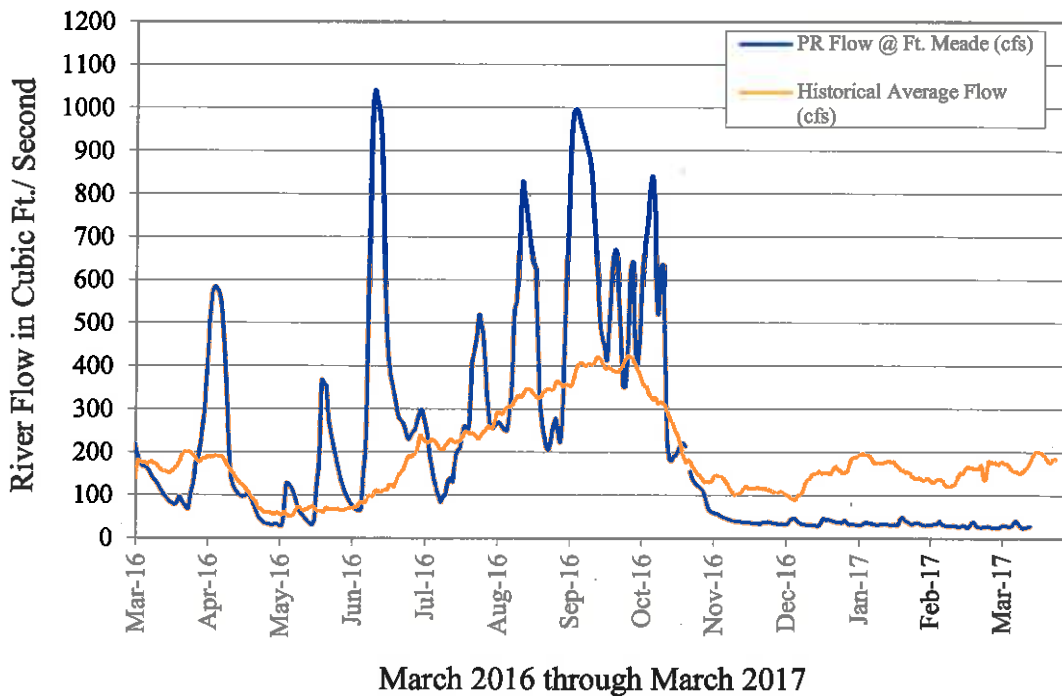
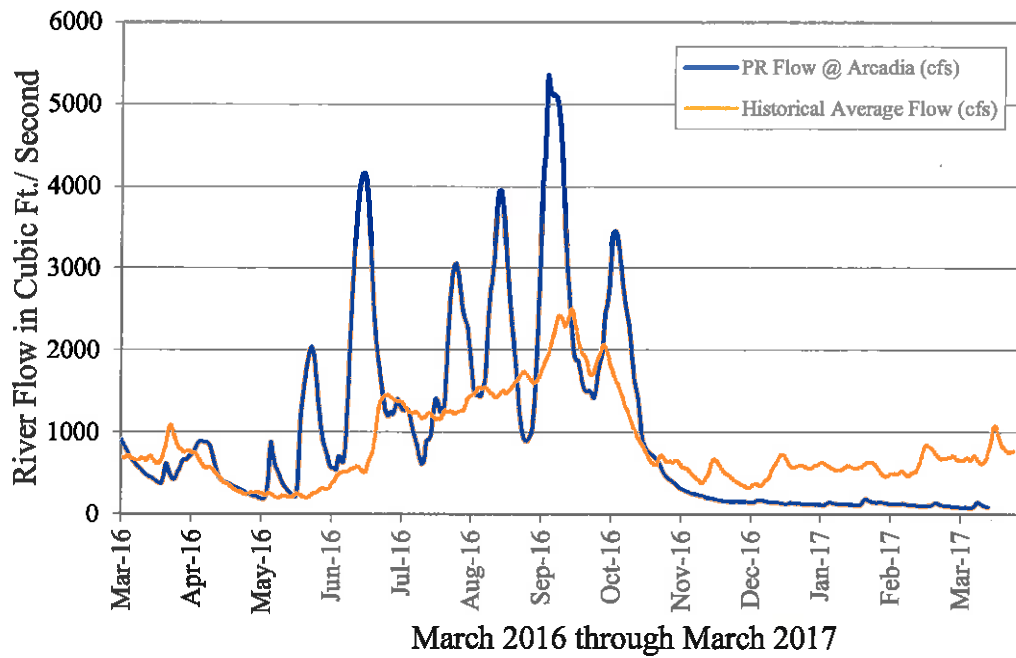




Figure 4 (Peace River Flow @ Arcadia)



**River Withdrawals, Finished Water Production & Demand**

Water was available for harvest from the river at limited times and in small quantities during February and March 2017. Withdrawals averaged 10.2 MGD in February and 2.5 MGD in March.

Figure 5 (Withdrawals from Peace River)

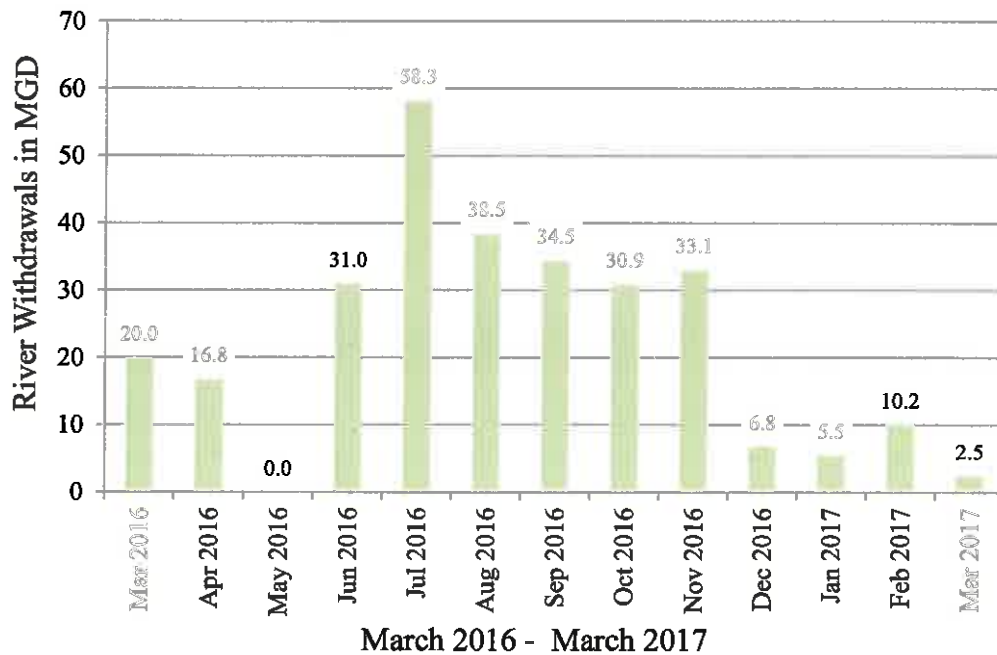
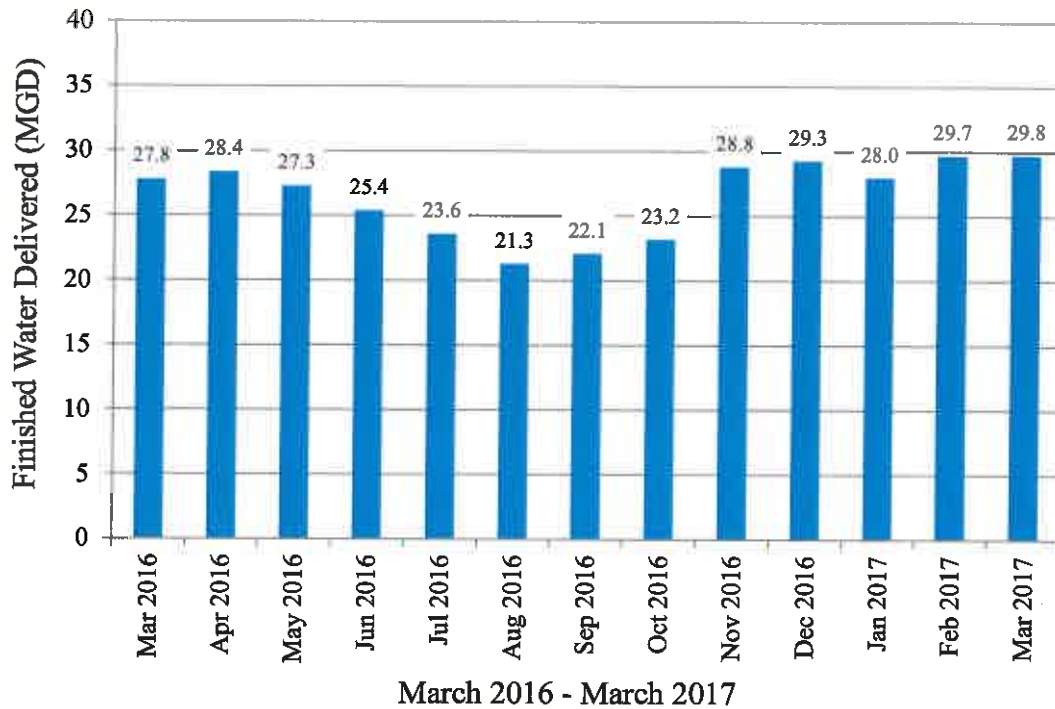


Figure 6 shows monthly finished water deliveries to Customers for the 12-month period ending late-March 2017. Finished water deliveries to Customers during February and March 2017 were near 30 MGD. Seasonal water delivery from the Regional System to the City of Punta Gorda is ongoing.

Figure 6 (Peace River Facility Deliveries to Customers)



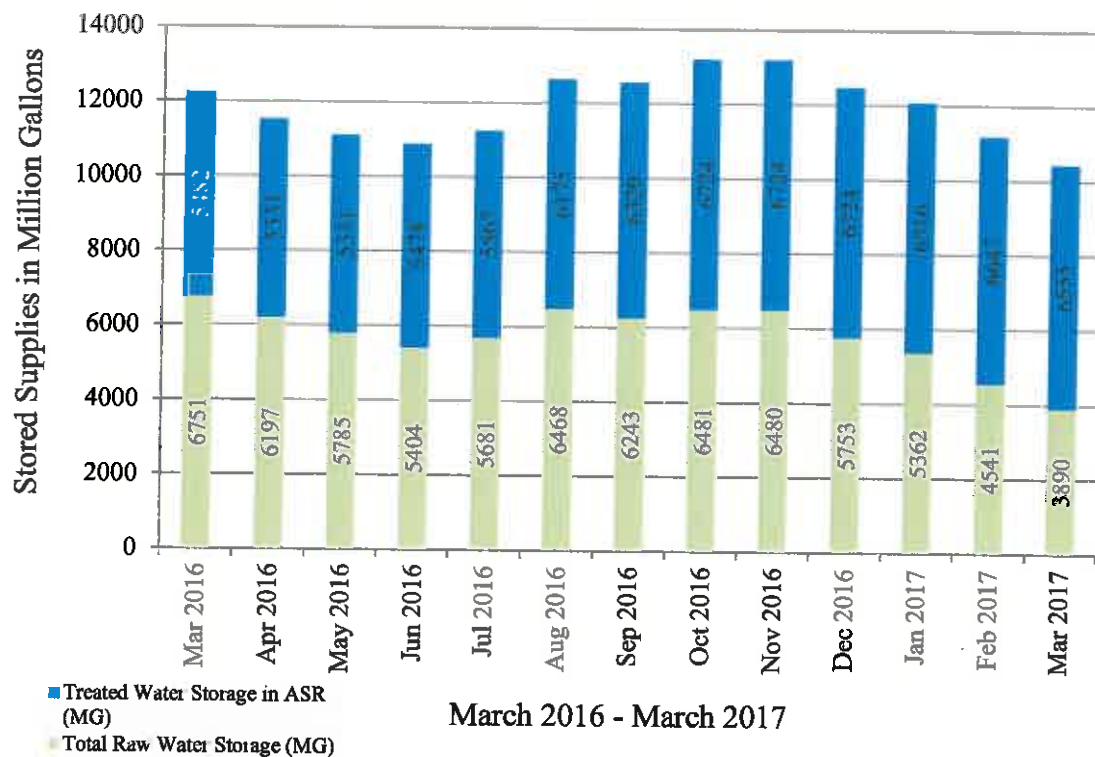
### Stored Supplies at the PRF

The Authority maintains two large capacity off-stream storage systems at the PRF. The primary storage is raw river water stored in Reservoir No. 1 and No. 2. When flow in the River is high enough, a small percentage of that flow is harvested at the Authority’s pumping facility on the Peace River and stored in Reservoirs 1 and 2. This storage is designed to be completely refilled each wet season. Total raw-water storage capacity is seasonally adjusted. During the hurricane season the total raw water storage capacity is 6.5 billion gallons (BG). Outside of hurricane season, additional water can be safely stored and the maximum raw water storage capacity in December and January at (November) is 6.9 BG. **Raw water stored as of late March 2017 totaled about 3.9 BG.**

The secondary storage at the PRF is treated water stored in the Aquifer Storage and Recovery (ASR) system. The design capacity of the ASR system is approximately 6.3 BG. Because this supply must be fully treated to drinking water standards before storage, it can’t be stored as rapidly as water in the raw-water reservoirs. Filling ASR storage is done incrementally each year as excess treatment capacity and hydrologic condition allow. ASR recharge ceased in early November. **Treated water stored in ASR as of late March 2017 totaled about 6.6 BG.**

Stored raw water supplies (combined storage in Reservoir No. 1 and No. 2) and stored water in the ASR system for the past year are shown in Figure 8. **The total water in storage as of late March 2017 was about 10.4 BG.** This is about 1.8 BG less water in storage than in March 2016.

Figure 8 (Stored Water Supplies)



***PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
BOARD OF DIRECTORS MEETING  
April 12, 2017***

**ROUTINE STATUS REPORTS  
ITEM 2**

**Check Registers for January 2017 and February 2017**

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
CHECK REGISTER: JANUARY & FEBRUARY 2017**

Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)					
Document Number	Date	Payee Name / Description	Type	Status	Amount
35881	01/04/2017	GLATFELTER CLAIMS MANAGEMENT, I	CHK	CLR	\$5,000.00
35882	01/04/2017	VIDEOGUY PRODUCTIONS	CHK	CLR	\$1,000.00
CONT1617	01/04/2017	Valic	CHK	CLR	\$6,542.85
PR1617	01/04/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06
FRSDEC2016	01/05/2017	FLORIDA DIVISION OF RETIREMENT	CHK	CLR	\$31,681.28
35883	01/12/2017	PRO-CHEM INC.	CHK	CLR	\$994.92
35884	01/12/2017	BLUSITE SOLUTIONS OF SOUTHWEST	CHK	CLR	\$70.00
35885	01/12/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	CLR	\$1,417.43
35886	01/12/2017	TRULY NOLEN BRANCH 079	CHK	CLR	\$178.00
35887	01/12/2017	DMS-FINANCIAL MGMT SERVICES	CHK	CLR	\$204.36
35888	01/12/2017	ALLIED UNIVERSAL CORP.	CHK	CLR	\$22,873.66
35889	01/12/2017	THE SUN	CHK	CLR	\$57.20
35890	01/12/2017	AIRGAS USA, LLC	CHK	CLR	\$46.91
35891	01/12/2017	WOMACK SANITATION INC.	CHK	CLR	\$298.00
35892	01/12/2017	FISHER SCIENTIFIC	CHK	CLR	\$661.48
35893	01/12/2017	ANIXTER INC.	CHK	CLR	\$1,780.32
35894	01/12/2017	HACH COMPANY	CHK	CLR	\$3,571.11
35895	01/12/2017	KINGSWAY ACE HARDWARE	CHK	CLR	\$321.24
35896	01/12/2017	HOME DEPOT	CHK	CLR	\$3,319.49
35897	01/12/2017	SPECIALTY PARTS	CHK	CLR	\$681.56
35898	01/12/2017	STANTEC CONSULTING SERVICES	CHK	CLR	\$66,968.80
35899	01/12/2017	CINTAS	CHK	CLR	\$620.00
35900	01/12/2017	AIR CENTERS-FLORIDA	CHK	CLR	\$5,317.49
35901	01/12/2017	SIEMENS INDUSTRY, INC.	CHK	CLR	\$1,340.00
35902	01/12/2017	SARASOTA HERALD TRIBUNE	CHK	CLR	\$93.50
35903	01/12/2017	TRANSCAT, INC.	CHK	CLR	\$275.92
35904	01/12/2017	MAILFINANCE	CHK	CLR	\$299.61
35905	01/12/2017	EUROFINS EATON ANALYTICAL, INC.	CHK	CLR	\$790.00
35906	01/12/2017	HUDSON PUMP	CHK	CLR	\$8,368.78
35907	01/12/2017	AWC, INC.	CHK	CLR	\$1,089.91
35908	01/12/2017	VOYAGER FLEET SYSTEMS, INC.	CHK	CLR	\$1,782.60
35909	01/12/2017	USA BLUEBOOK	CHK	CLR	\$964.27
35910	01/12/2017	ALLIED ELECTRONICS, INC.	CHK	CLR	\$2,589.60
35911	01/12/2017	ALL FLORIDA WATER-TAMPA	CHK	CLR	\$211.58
35912	01/12/2017	ARGILA ENTERPRISES, INC.	CHK	CLR	\$5,400.00
35913	01/12/2017	BLACK & VEATCH	CHK	CLR	\$14,994.00
35914	01/12/2017	BANKS ENGINEERING	CHK	CLR	\$12,100.00
35915	01/12/2017	BATTERIES PLUS BULBS #451	CHK	CLR	\$2,765.92
35916	01/12/2017	BILL'S BOTTLED WATER SERVI CE	CHK	CLR	\$18.50
35917	01/12/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	CLR	\$4,195.85
35918	01/12/2017	CHARLOTTE COUNTY UTILITIES	CHK	CLR	\$164,694.84
35919	01/12/2017	CHARLOTTE COUNTY BD OF COMMISS	CHK	CLR	\$75,413.41
35920	01/12/2017	CLEAVELAND/PRICE INC.	CHK	CLR	\$999.90
35921	01/12/2017	DILLER-BROWN & ASSOC. INC.	CHK	CLR	\$801.73
35922	01/12/2017	DESOTO COUNTY	CHK	CLR	\$66,333.33
35923	01/12/2017	DELL MARKETING L.P.	CHK	CLR	\$3,389.13
35924	01/12/2017	DIANE R. SALZ	CHK	CLR	\$3,750.00
35925	01/12/2017	EARTH BALANCE	CHK	CLR	\$12,295.00
35926	01/12/2017	FLUID CONTROL SPECIALTIES, INC.	CHK	CLR	\$964.00
35927	01/12/2017	FETE CATERING	CHK	VOID	\$3,613.12
35928	01/12/2017	FLORIDA ENGINEERING FOUNDATION	CHK	CLR	\$200.00
35929	01/12/2017	FRONTIER COMMUNICATIONS	CHK	CLR	\$214.99
35930	01/12/2017	GE SENSING	CHK	CLR	\$939.41
35931	01/12/2017	HAWKINS, INC.	CHK	CLR	\$671.00
35932	01/12/2017	HAZEN AND SAWYER	CHK	CLR	\$23,214.50
35933	01/12/2017	JAN-PRO OF MANASOTA	CHK	CLR	\$249.00
35934	01/12/2017	JOHNSON ENGINEERING, INC.	CHK	CLR	\$16,225.93
35936	01/12/2017	McCABE & ASSOCIATES	CHK	CLR	\$2,400.00
35937	01/12/2017	METTLER-TOLEDO, LLC	CHK	CLR	\$343.20
35938	01/12/2017	KEVIN MORRIS	CHK	CLR	\$61.75
35939	01/12/2017	NATURAL RESOURCES LLC	CHK	CLR	\$19,741.90
35940	01/12/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00
35941	01/12/2017	C & S CHEMICALS INC.	CHK	CLR	\$44,272.02
35942	01/12/2017	DEX IMAGING	CHK	CLR	\$703.57
35943	01/12/2017	RC Beech & Assoc	CHK	CLR	\$16,258.00
35944	01/12/2017	RAPID SECURITY SOLUTIONS, LLC	CHK	CLR	\$115.00
35945	01/12/2017	SARASOTA CTY ENVIRONMENTL UTILI	CHK	CLR	\$14,474.04
35946	01/12/2017	SHEARER CONSULTING INC.	CHK	CLR	\$2,500.00
35947	01/12/2017	STRATEGIC PEST CONTROL OF SW FL	CHK	CLR	\$85.00
35948	01/12/2017	STANTEC CONSULTING SERVICES INC	CHK	CLR	\$2,401.00
35949	01/12/2017	THE BANK OF NEW YORK MELLON	CHK	CLR	\$760.00

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
CHECK REGISTER: JANUARY & FEBRUARY 2017**

Bank Code:		PUBLIC FUNDS INTEREST CHECKING (PNC)				
Document Number	Date	Payee Name / Description	Type	Status	Amount	
35950	01/12/2017	TKW CONSULTING ENGINEERS, INC.	CHK	CLR	\$7,547.50	
35951	01/12/2017	TRACTOR SUPPLY COMPANY CREDIT	CHK	CLR	\$28.14	
35952	01/12/2017	UPS	CHK	CLR	\$54.64	
35953	01/12/2017	U.S. BANK EQUIPMENT FINANCE	CHK	CLR	\$1,119.61	
35954	01/12/2017	UNITED STATES GEOLOGICAL SURVEY	CHK	CLR	\$7,510.00	
35955	01/12/2017	KEETON'S OFFICE & ART SUPPLY	CHK	CLR	\$1,339.71	
CONTR12017	01/18/2017	Vallie	CHK	CLR	\$6,630.50	
WH12017	01/18/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06	
35956	01/27/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	CLR	\$646.44	
35957	01/27/2017	TRULY NOLEN OF AMERICA	CHK	CLR	\$442.50	
35958	01/27/2017	DMS-FINANCIAL MGMT SERVICES	CHK	CLR	\$75.60	
35959	01/27/2017	ALLIED UNIVERSAL CORP.	CHK	VOID	\$0.00	
35960	01/27/2017	ALLIED UNIVERSAL CORP.	CHK	CLR	\$73,004.91	
35961	01/27/2017	THE SUN	CHK	CLR	\$58.63	
35962	01/27/2017	FEDERAL EXPRESS	CHK	CLR	\$11.84	
35963	01/27/2017	AIRGAS USA, LLC	CHK	CLR	\$30.38	
35964	01/27/2017	HACH COMPANY	CHK	CLR	\$1,357.37	
35965	01/27/2017	KINGSWAY ACE HARDWARE	CHK	CLR	\$119.95	
35966	01/27/2017	BUSINESS CARD	CHK	CLR	\$129.89	
35967	01/27/2017	HOME DEPOT	CHK	CLR	\$256.95	
35968	01/27/2017	MONRO MUFFLER BRAKE, INC.	CHK	CLR	\$27.48	
35969	01/27/2017	BUSINESS CARD	CHK	CLR	\$823.90	
35970	01/27/2017	SARASOTA HERALD TRIBUNE	CHK	CLR	\$93.50	
35971	01/27/2017	TRANSCAT, INC.	CHK	CLR	\$1,348.31	
35972	01/27/2017	HIME PHOTOGRAPHY	CHK	CLR	\$450.00	
35973	01/27/2017	BUSINESS CARD	CHK	CLR	\$852.55	
35974	01/27/2017	BUSINESS CARD	CHK	CLR	\$339.10	
35975	01/27/2017	SAM'S CLUB	CHK	CLR	\$87.89	
35976	01/27/2017	USA BLUEBOOK	CHK	CLR	\$178.68	
35977	01/27/2017	CENTURYLINK	CHK	CLR	\$1,889.92	
35978	01/27/2017	ATKINS NORTH AMERICA, INC.	CHK	CLR	\$5,719.46	
35979	01/27/2017	AWWA	CHK	CLR	\$90.00	
35980	01/27/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	CLR	\$1,478.00	
35981	01/27/2017	CABOT CORPORATION	CHK	CLR	\$45,001.00	
35982	01/27/2017	CHARLOTTE COUNTY BCC - LANDFILL	CHK	CLR	\$3,452.49	
35983	01/27/2017	CHARLOTTE COUNTY BD OF COMMISS	CHK	CLR	\$77,936.03	
35984	01/27/2017	CHARLOTTE HOME DECOR	CHK	CLR	\$1,166.00	
35985	01/27/2017	CHENANGO SUPPLY CO., INC.	CHK	CLR	\$89.76	
35986	01/27/2017	D. M. CONSTRUCTION CORP.	CHK	CLR	\$8,573.68	
35987	01/27/2017	EARTH BALANCE	CHK	CLR	\$11,017.25	
35988	01/27/2017	FLORIDA POWER & LIGHT COMPANY	CHK	CLR	\$105,274.87	
35989	01/27/2017	GOODYEAR AUTO SERVICE CENTER	CHK	CLR	\$784.28	
35990	01/27/2017	AIRGAS SPECIALTY PRODUCTS	CHK	CLR	\$2,942.42	
35991	01/27/2017	HVMI, LLC	CHK	CLR	\$6,895.10	
35992	01/27/2017	JAN-PRO CLEANING SYSTEMS OF SW	CHK	CLR	\$495.00	
35993	01/27/2017	JANICKI ENVIRONMENTAL, INC.	CHK	CLR	\$22,094.00	
35995	01/27/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00	
35996	01/27/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00	
35997	01/27/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00	
35998	01/27/2017	C & S CHEMICALS INC.	CHK	CLR	\$67,541.03	
35999	01/27/2017	SUNSHINE STATE ONE CALL OF FL, IN	CHK	CLR	\$36.32	
36000	01/27/2017	PROGRESSIVE WATER RESOURCES, L	CHK	CLR	\$12,500.00	
36001	01/27/2017	RICHARD ANDERSON	CHK	CLR	\$140.78	
36002	01/27/2017	Rob Wilson	CHK	O/S	\$24.84	
36003	01/27/2017	RANCH PROPERTY HOLDINGS LLC	CHK	CLR	\$12,640.44	
36004	01/27/2017	THE SHIPPING POST	CHK	CLR	\$25.97	
36005	01/27/2017	SMITH RANCH & GARDEN, INC.	CHK	CLR	\$599.20	
36006	01/27/2017	TERRI GREEN	CHK	O/S	\$13.91	
36007	01/27/2017	TRINOVA INC.	CHK	CLR	\$1,271.72	
36008	01/27/2017	UPS	CHK	CLR	\$375.09	
36009	01/27/2017	U.S. BANK EQUIPMENT FINANCE	CHK	CLR	\$362.35	
36010	01/27/2017	UNITED STATES GEOLOGICAL SURVEY	CHK	CLR	\$7,025.00	
36011	01/27/2017	VANASSE HANGEN BRUSTLIN, INC	CHK	CLR	\$8,102.50	
36012	01/27/2017	AECOM TECHNICAL SERVICES, INC.	CHK	CLR	\$3,968.50	
36013	01/27/2017	DESOTO AUTOMOTIVE ENTERPRISES I	CHK	CLR	\$26,875.50	
36014	01/27/2017	FLA DEPT OF ENVIRONMENTAL PROT	CHK	CLR	\$1,000.00	
36015	01/27/2017	KEETON'S OFFICE & ART SUPPLY	CHK	CLR	\$634.11	
CONT2317	02/01/2017	Vallie	CHK	CLR	\$6,545.40	
2317PRDEDUCT	02/03/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06	
FRSJAN2017	02/07/2017	FLORIDA DIVISION OF RETIREMENT	CHK	CLR	\$25,413.23	
36018	02/09/2017	PRO-CHEM INC.	CHK	CLR	\$601.25	

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
CHECK REGISTER: JANUARY & FEBRUARY 2017**

Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)					
Document Number	Date	Payee Name / Description	Type	Status	Amount
36017	02/09/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	CLR	\$4,108.33
36018	02/09/2017	CINTAS	CHK	CLR	\$358.59
36019	02/09/2017	DMS-FINANCIAL MGMT SERVICES	CHK	CLR	\$204.56
36020	02/09/2017	ALLIED UNIVERSAL CORP.	CHK	CLR	\$36,711.91
36021	02/09/2017	WOMACK SANITATION INC.	CHK	CLR	\$1,202.00
36022	02/09/2017	FISHER SCIENTIFIC	CHK	CLR	\$2,346.31
36023	02/09/2017	HACH COMPANY	CHK	CLR	\$2,017.31
36024	02/09/2017	KINGSWAY ACE HARDWARE	CHK	CLR	\$140.89
36025	02/09/2017	MCMASTER-CARR SUPPLY CO	CHK	CLR	\$1,481.03
36026	02/09/2017	HOME DEPOT	CHK	CLR	\$908.11
36027	02/09/2017	HDR ENGINEERING INC.	CHK	CLR	\$10,893.70
36028	02/09/2017	SPECIALTY PARTS	CHK	CLR	\$221.86
36029	02/09/2017	STANTEC CONSULTING SERVICES	CHK	CLR	\$19,234.95
36030	02/09/2017	FENDER'S TIRE & BATTERY INC.	CHK	CLR	\$331.50
36031	02/09/2017	SIEMENS INDUSTRY, INC.	CHK	CLR	\$300.00
36032	02/09/2017	FEI-FT.MYERS WATERWORKS #127	CHK	CLR	\$99.75
36033	02/09/2017	SARASOTA HERALD TRIBUNE	CHK	CLR	\$151.25
36034	02/09/2017	GRAYBAR	CHK	CLR	\$4,526.38
36035	02/09/2017	ENDRESS+HAUSER, INC.	CHK	CLR	\$1,529.74
36036	02/09/2017	EUROFINS EATON ANALYTICAL, INC.	CHK	CLR	\$395.00
36037	02/09/2017	TOTALFUNDS BY HASLER	CHK	CLR	\$200.00
36038	02/09/2017	VOYAGER FLEET SYSTEMS, INC.	CHK	CLR	\$1,936.51
36039	02/09/2017	USA BLUEBOOK	CHK	CLR	\$107.77
36040	02/09/2017	FLORIDA DEPARTMENT OF STATE	CHK	CLR	\$48.86
36041	02/09/2017	ALLIED ELECTRONICS, INC.	CHK	CLR	\$2,593.52
36042	02/09/2017	ALL FLORIDA WATER-TAMPA	CHK	CLR	\$211.58
36043	02/09/2017	ARGILA ENTERPRISES, INC.	CHK	CLR	\$3,150.00
36044	02/09/2017	AUDIO VISUAL INNOVATIONS, INC.	CHK	CLR	\$9,232.87
36045	02/09/2017	AWWA	CHK	CLR	\$90.00
36046	02/09/2017	BANKS ENGINEERING	CHK	CLR	\$2,825.00
36047	02/09/2017	BATTERIES PLUS BULBS #451	CHK	CLR	\$1,129.37
36048	02/09/2017	BILL'S BOTTLED WATER SERVI CE	CHK	CLR	\$11.25
36049	02/09/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	CLR	\$2,995.00
36050	02/09/2017	CABOT CORPORATION	CHK	CLR	\$22,297.00
36051	02/09/2017	CHARLOTTE COUNTY UTILITIES	CHK	CLR	\$164,694.84
36052	02/09/2017	CORRPRO COMPANIES	CHK	CLR	\$4,300.00
36053	02/09/2017	CHARLOTTE PLUMBING K & BATH INC.	CHK	CLR	\$1,170.00
36054	02/09/2017	CRUMPTON WELDING SUPPLY	CHK	CLR	\$96.70
36055	02/09/2017	DILLER-BROWN & ASSOC. INC.	CHK	CLR	\$580.39
36056	02/09/2017	DESOTO COUNTY	CHK	CLR	\$66,333.33
36057	02/09/2017	DESOTO COUNTY WATER UTILITY	CHK	CLR	\$2,047.05
36058	02/09/2017	DIANE R. SALZ	CHK	CLR	\$3,750.00
36059	02/09/2017	EARTH BALANCE	CHK	CLR	\$6,155.00
36060	02/09/2017	ERPORTAL SOFTWARE, INC.	CHK	CLR	\$550.00
36061	02/09/2017	FLUID CONTROL SPECIALTIES, INC.	CHK	CLR	\$857.50
36062	02/09/2017	FLORIDA U.C. FUND	CHK	CLR	\$1,650.00
36063	02/09/2017	FRONTIER COMMUNICATIONS	CHK	CLR	\$214.99
36064	02/09/2017	FLORIDA TECHNICAL PRODUCTS, INC.	CHK	CLR	\$2,382.33
36065	02/09/2017	AIRGAS SPECIALTY PRODUCTS	CHK	CLR	\$2,965.93
36066	02/09/2017	HAZEN AND SAWYER	CHK	CLR	\$22,288.00
36067	02/09/2017	JAN-PRO OF MANASOTA	CHK	CLR	\$249.00
36068	02/09/2017	JAN-PRO CLEANING SYSTEMS OF SW	CHK	CLR	\$495.00
36069	02/09/2017	KEETON'S OFFICE & ART SUPPLY	CHK	CLR	\$637.92
36070	02/09/2017	KIMLEY-HORN AND ASSOCIATES, INC.	CHK	CLR	\$9,706.88
36071	02/09/2017	LABORATORY DATA CONSULTANTS FL	CHK	CLR	\$2,366.25
36072	02/09/2017	M&M CONTRACTORS INC.	CHK	CLR	\$8,150.15
36073	02/09/2017	MARINE CONTRACTING GROUP INC.	CHK	CLR	\$197,969.87
36074	02/09/2017	MADER ELECTRIC, INC.	CHK	CLR	\$8,806.59
36075	02/09/2017	MANSON BOLVES DONALDSON VARN,	CHK	CLR	\$13,503.40
36076	02/09/2017	KEVIN MORRIS	CHK	CLR	\$369.00
36077	02/09/2017	NATIONAL BUSINESS FURNITURE, LLC	CHK	CLR	\$840.00
36078	02/09/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00
36079	02/09/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00
36080	02/09/2017	C & S CHEMICALS INC.	CHK	CLR	\$66,024.50
36081	02/09/2017	PHENOVA, INC.	CHK	CLR	\$268.65
36082	02/09/2017	PUBLIC RISK INSURANCE AGENCY	CHK	CLR	\$833.00
36083	02/09/2017	RANCH PROPERTY HOLDINGS LLC	CHK	O/S	\$12,640.44
36084	02/09/2017	RAPID SECURITY SOLUTIONS, LLC	CHK	CLR	\$2,172.95
36085	02/09/2017	SAFE TECH INC.	CHK	CLR	\$288.00
36086	02/09/2017	SIMS CRANE & EQUIPMENT	CHK	CLR	\$2,953.20
36087	02/09/2017	THERMO ELECTRON NORTH AMERICA	CHK	CLR	\$975.00

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
CHECK REGISTER: JANUARY & FEBRUARY 2017**

Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)					
Document Number	Date	Payee Name / Description	Type	Status	Amount
36088	02/09/2017	TKW CONSULTING ENGINEERS, INC.	CHK	CLR	\$5,312.78
36089	02/09/2017	TRACTOR SUPPLY COMPANY CREDIT	CHK	CLR	\$139.96
36090	02/09/2017	UPS	CHK	CLR	\$83.35
36091	02/09/2017	U.S. BANK EQUIPMENT FINANCE	CHK	CLR	\$1,119.61
36092	02/09/2017	VIDEOGUY PRODUCTIONS	CHK	CLR	\$2,200.00
36093	02/09/2017	VOLUNTARY EXTRA DUTY ACCOUNT	CHK	CLR	\$120.00
CONT21717	02/17/2017	Valic	CHK	CLR	\$6,481.42
PR21717	02/17/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06
36094	02/24/2017	BLUSITE SOLUTIONS OF SOUTHWEST	CHK	O/S	\$269.25
36095	02/24/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	O/S	\$878.84
36096	02/24/2017	TRULY NOLEN BRANCH 079	CHK	O/S	\$178.00
36097	02/24/2017	DMS-FINANCIAL MGMT SERVICES	CHK	O/S	\$67.23
36098	02/24/2017	CIMTEC AUTOMATION, LLC	CHK	O/S	\$2,312.96
36099	02/24/2017	ALLIED UNIVERSAL CORP.	CHK	O/S	\$29,207.60
36100	02/24/2017	THE SUN	CHK	O/S	\$81.51
36101	02/24/2017	AIRGAS USA, LLC	CHK	O/S	\$30.36
36102	02/24/2017	FISHER SCIENTIFIC	CHK	O/S	\$780.37
36103	02/24/2017	PAGE MECHANICAL GROUP, INC.	CHK	O/S	\$2,270.41
36104	02/24/2017	ANIXTER INC.	CHK	O/S	\$496.79
36105	02/24/2017	HACH COMPANY	CHK	O/S	\$603.39
36106	02/24/2017	BUSINESS CARD	CHK	O/S	\$1,638.28
36107	02/24/2017	HOME DEPOT	CHK	O/S	\$301.74
36108	02/24/2017	BUSINESS CARD	CHK	O/S	\$2,223.47
36109	02/24/2017	FEI-FT.MYERS WATERWORKS #127	CHK	O/S	\$450.12
36110	02/24/2017	HIME PHOTOGRAPHY.	CHK	O/S	\$1,725.00
36111	02/24/2017	QUALITY STARTER & ALT SER INC.	CHK	O/S	\$182.90
36112	02/24/2017	BUSINESS CARD	CHK	O/S	\$253.31
36113	02/24/2017	BUSINESS CARD	CHK	O/S	\$4,087.63
36114	02/24/2017	SAM'S CLUB	CHK	O/S	\$161.48
36115	02/24/2017	DESOTO AUTOMOTOVE ENTERPRISES	CHK	O/S	\$389.51
36116	02/24/2017	GRAINGER	CHK	O/S	\$292.47
36117	02/24/2017	USA BLUEBOOK	CHK	O/S	\$2,927.18
36118	02/24/2017	CENTURYLINK	CHK	O/S	\$378.15
36119	02/24/2017	FLORIDA DEPARTMENT OF STATE	CHK	O/S	\$33.18
36120	02/24/2017	AECOM TECHNICAL SERVICES, INC.	CHK	O/S	\$12,274.00
36121	02/24/2017	ALLIED ELECTRONICS, INC.	CHK	O/S	\$1,314.77
36122	02/24/2017	ALL FLORIDA WATER-TAMPA	CHK	O/S	\$211.58
36123	02/24/2017	AMAZON	CHK	O/S	\$5,538.74
36124	02/24/2017	ATKINS NORTH AMERICA, INC.	CHK	O/S	\$5,788.52
36125	02/24/2017	BLACK & VEATCH	CHK	O/S	\$12,495.00
36126	02/24/2017	BATTERIES PLUS BULBS #451	CHK	O/S	\$2,821.99
36127	02/24/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	O/S	\$11,443.85
36128	02/24/2017	CABOT CORPORATION	CHK	O/S	\$21,197.00
36129	02/24/2017	CHARLOTTE COUNTY BCC - LANDFILL	CHK	O/S	\$4,190.31
36130	02/24/2017	CROM ENGINEERING & CONSTRUCTIO	CHK	O/S	\$15,396.25
36131	02/24/2017	CHRISTOPHER M ROGERS	CHK	O/S	\$559.13
36132	02/24/2017	CHENANGO SUPPLY CO., INC.	CHK	O/S	\$168.49
36133	02/24/2017	D. M. CONSTRUCTION CORP.	CHK	O/S	\$10,405.94
36134	02/24/2017	EARTH BALANCE	CHK	O/S	\$2,303.64
36135	02/24/2017	E.F. GAINES SURVEYING SERVICES, IN	CHK	O/S	\$6,200.00
36136	02/24/2017	FLUID CONTROL SPECIALTIES, INC.	CHK	O/S	\$1,318.72
36137	02/24/2017	FLORIDA POWER & LIGHT COMPANY	CHK	O/S	\$120,668.33
36138	02/24/2017	AIRGAS SPECIALTY PRODUCTS	CHK	O/S	\$3,035.14
36139	02/24/2017	HVMI, LLC	CHK	O/S	\$8,928.10
36140	02/24/2017	ISA	CHK	O/S	\$120.00
36141	02/24/2017	JANICKI ENVIRONMENTAL, INC.	CHK	O/S	\$6,920.00
36142	02/24/2017	JOHNSON ENGINEERING, INC.	CHK	O/S	\$18,402.60
36143	02/24/2017	J. H. HAM ENGINEERING INC.	CHK	O/S	\$1,173.00
36144	02/24/2017	KEETON'S OFFICE & ART SUPPLY	CHK	O/S	\$380.83
36145	02/24/2017	L.I.S. INC.	CHK	O/S	\$198.81
36146	02/24/2017	MADER ELECTRIC, INC.	CHK	O/S	\$8,688.86
36147	02/24/2017	C & S CHEMICALS INC.	CHK	O/S	\$21,624.87
36148	02/24/2017	SUNSHINE STATE ONE CALL OF FL, IN	CHK	O/S	\$36.32
36149	02/24/2017	PUBLIC RISK INSURANCE AGENCY	CHK	O/S	\$211,833.00
36150	02/24/2017	PROGRESSIVE WATER RESOURCES, L	CHK	O/S	\$11,535.00
36151	02/24/2017	Rob Wilson	CHK	O/S	\$125.19
36152	02/24/2017	SIMS CRANE & EQUIPMENT	CHK	O/S	\$1,476.60
36153	02/24/2017	SARASOTA CTY ENVIRONMENTL UTILI	CHK	O/S	\$10,871.87
36154	02/24/2017	SHEARER CONSULTING INC.	CHK	O/S	\$3,000.00
36155	02/24/2017	SARASOTA TROPHY & AWARDS INC.	CHK	O/S	\$75.50
36156	02/24/2017	THE BANK OF NEW YORK MELLON	CHK	O/S	\$750.00



**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
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<b>Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)</b>					
<b>Document Number</b>	<b>Date</b>	<b>Payee Name / Description</b>	<b>Type</b>	<b>Status</b>	<b>Amount</b>
36157	02/24/2017	TKW CONSULTING ENGINEERS, INC.	CHK	O/S	\$6,893.75
36158	02/24/2017	UNIVERSITY ENTERPRISES, INC.	CHK	O/S	\$114.00
36159	02/24/2017	UPS	CHK	O/S	\$448.78
36160	02/24/2017	U.S. BANK EQUIPMENT FINANCE	CHK	O/S	\$362.35
36161	02/24/2017	VANASSE HANGEN BRUSTLIN, INC	CHK	O/S	\$1,037.50
36162	02/24/2017	ASWATHY WARRIER	CHK	O/S	\$1,737.50
36163	02/24/2017	XBYTE TECHNOLOGIES	CHK	O/S	\$15,252.00
36164	02/24/2017	XYLEM DEWATERING SOLUTIONS	CHK	O/S	\$29,100.00
36165	02/25/2017	FLA DEPT OF ENVIRONMENTAL PROT	CHK	O/S	\$900.00
CONT3317	02/28/2017	Vailic	CHK	CLR	\$6,697.47
FRSFEB2017		FLORIDA DIVISION OF RETIREMENT	CHK	CLR	\$25,037.65
<b>Check Total</b>					<b>\$2,709,377.98</b>

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**

**CHECK REGISTER: JANUARY & FEBRUARY 2017**

Alphabetically By Vendor

Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)						
Document Number	Date	Payee Name / Description	Type	Status	Amount	
36012	01/27/2017	AECOM TECHNICAL SERVICES, INC.	CHK	CLR	\$3,968.50	
36120	02/24/2017	AECOM TECHNICAL SERVICES, INC.	CHK	O/S	\$12,274.00	
35900	01/12/2017	AIR CENTERS-FLORIDA	CHK	CLR	\$5,317.49	
35990	01/27/2017	AIRGAS SPECIALTY PRODUCTS	CHK	CLR	\$2,942.42	
36065	02/09/2017	AIRGAS SPECIALTY PRODUCTS	CHK	CLR	\$2,965.93	
36138	02/24/2017	AIRGAS SPECIALTY PRODUCTS	CHK	O/S	\$3,035.14	
35890	01/12/2017	AIRGAS USA, LLC	CHK	CLR	\$46.91	
35983	01/27/2017	AIRGAS USA, LLC	CHK	CLR	\$30.36	
36101	02/24/2017	AIRGAS USA, LLC	CHK	O/S	\$30.36	
35911	01/12/2017	ALL FLORIDA WATER-TAMPA	CHK	CLR	\$211.58	
36042	02/09/2017	ALL FLORIDA WATER-TAMPA	CHK	CLR	\$211.58	
36122	02/24/2017	ALL FLORIDA WATER-TAMPA	CHK	O/S	\$211.58	
35910	01/12/2017	ALLIED ELECTRONICS, INC.	CHK	CLR	\$2,589.60	
36041	02/09/2017	ALLIED ELECTRONICS, INC.	CHK	CLR	\$2,593.52	
36121	02/24/2017	ALLIED ELECTRONICS, INC.	CHK	O/S	\$1,314.77	
35888	01/12/2017	ALLIED UNIVERSAL CORP.	CHK	CLR	\$22,873.66	
35959	01/27/2017	ALLIED UNIVERSAL CORP.	CHK	VOID	\$0.00	
35960	01/27/2017	ALLIED UNIVERSAL CORP.	CHK	CLR	\$73,004.91	
36020	02/09/2017	ALLIED UNIVERSAL CORP.	CHK	CLR	\$36,711.91	
36099	02/24/2017	ALLIED UNIVERSAL CORP.	CHK	O/S	\$29,207.60	
36123	02/24/2017	AMAZON	CHK	O/S	\$5,538.74	
35893	01/12/2017	ANIXTER INC.	CHK	CLR	\$1,780.32	
36104	02/24/2017	ANIXTER INC.	CHK	O/S	\$496.79	
35912	01/12/2017	ARGILA ENTERPRISES, INC.	CHK	CLR	\$5,400.00	
36043	02/09/2017	ARGILA ENTERPRISES, INC.	CHK	CLR	\$3,150.00	
36162	02/24/2017	ASWATHY WARRIER	CHK	O/S	\$1,737.50	
35978	01/27/2017	ATKINS NORTH AMERICA, INC.	CHK	CLR	\$5,719.48	
36124	02/24/2017	ATKINS NORTH AMERICA, INC.	CHK	O/S	\$5,786.52	
36044	02/09/2017	AUDIO VISUAL INNOVATIONS, INC.	CHK	CLR	\$9,232.87	
35907	01/12/2017	AWC, INC.	CHK	CLR	\$1,089.91	
35979	01/27/2017	AWWA	CHK	CLR	\$90.00	
36045	02/09/2017	AWWA	CHK	CLR	\$90.00	
35914	01/12/2017	BANKS ENGINEERING	CHK	CLR	\$12,100.00	
36046	02/09/2017	BANKS ENGINEERING	CHK	CLR	\$2,825.00	
35915	01/12/2017	BATTERIES PLUS BULBS #451	CHK	CLR	\$2,765.92	
36047	02/09/2017	BATTERIES PLUS BULBS #451	CHK	CLR	\$1,129.37	
36126	02/24/2017	BATTERIES PLUS BULBS #451	CHK	O/S	\$2,821.99	
35917	01/12/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	CLR	\$4,195.85	
35980	01/27/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	CLR	\$1,478.00	
36049	02/09/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	CLR	\$2,995.00	
36127	02/24/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	O/S	\$11,443.85	
35916	01/12/2017	BILL'S BOTTLED WATER SERVICE	CHK	CLR	\$16.50	
36048	02/09/2017	BILL'S BOTTLED WATER SERVICE	CHK	CLR	\$11.25	
35913	01/12/2017	BLACK & VEATCH	CHK	CLR	\$14,994.00	
36125	02/24/2017	BLACK & VEATCH	CHK	O/S	\$12,495.00	
35884	01/12/2017	BLUSITE SOLUTIONS OF SOUTHWEST	CHK	CLR	\$70.00	
36094	02/24/2017	BLUSITE SOLUTIONS OF SOUTHWEST	CHK	O/S	\$269.25	
35966	01/27/2017	BUSINESS CARD	CHK	CLR	\$129.89	
35969	01/27/2017	BUSINESS CARD	CHK	CLR	\$823.90	
35973	01/27/2017	BUSINESS CARD	CHK	CLR	\$852.55	
35974	01/27/2017	BUSINESS CARD	CHK	CLR	\$339.10	
36106	02/24/2017	BUSINESS CARD	CHK	O/S	\$1,638.28	
36108	02/24/2017	BUSINESS CARD	CHK	O/S	\$2,223.47	
36112	02/24/2017	BUSINESS CARD	CHK	O/S	\$253.31	
36113	02/24/2017	BUSINESS CARD	CHK	O/S	\$4,087.63	
35940	01/12/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00	
35941	01/12/2017	C & S CHEMICALS INC.	CHK	CLR	\$44,272.02	
35995	01/27/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00	
35996	01/27/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00	
35997	01/27/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00	
35998	01/27/2017	C & S CHEMICALS INC.	CHK	CLR	\$67,541.03	
36078	02/09/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00	
36079	02/09/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00	
36080	02/09/2017	C & S CHEMICALS INC.	CHK	CLR	\$66,024.50	
36147	02/24/2017	C & S CHEMICALS INC.	CHK	O/S	\$21,624.87	
35981	01/27/2017	CABOT CORPORATION	CHK	CLR	\$45,001.00	
36050	02/09/2017	CABOT CORPORATION	CHK	CLR	\$22,297.00	
36128	02/24/2017	CABOT CORPORATION	CHK	O/S	\$21,197.00	
35977	01/27/2017	CENTURYLINK	CHK	CLR	\$1,869.92	
36118	02/24/2017	CENTURYLINK	CHK	O/S	\$378.15	
35982	01/27/2017	CHARLOTTE COUNTY BCC - LANDFILL	CHK	CLR	\$3,462.49	

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**CHECK REGISTER: JANUARY & FEBRUARY 2017**  
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Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)					
Document Number	Date	Payee Name / Description	Type	Status	Amount
36129	02/24/2017	CHARLOTTE COUNTY BCC - LANDFILL	CHK	O/S	\$4,190.31
35919	01/12/2017	CHARLOTTE COUNTY BD OF COMMISS	CHK	CLR	\$75,413.41
35983	01/27/2017	CHARLOTTE COUNTY BD OF COMMISS	CHK	CLR	\$77,936.03
35918	01/12/2017	CHARLOTTE COUNTY UTILITIES	CHK	CLR	\$164,694.84
36051	02/09/2017	CHARLOTTE COUNTY UTILITIES	CHK	CLR	\$164,694.84
35984	01/27/2017	CHARLOTTE HOME DECOR	CHK	CLR	\$1,166.00
36053	02/09/2017	CHARLOTTE PLUMBING K & BATH INC.	CHK	CLR	\$1,170.00
35985	01/27/2017	CHENANGO SUPPLY CO., INC.	CHK	CLR	\$89.76
36132	02/24/2017	CHENANGO SUPPLY CO., INC.	CHK	O/S	\$188.49
36131	02/24/2017	CHRISTOPHER M ROGERS	CHK	O/S	\$559.13
36098	02/24/2017	CIMTEC AUTOMATION, LLC	CHK	O/S	\$2,312.96
35899	01/12/2017	CINTAS	CHK	CLR	\$620.00
36018	02/09/2017	CINTAS	CHK	CLR	\$358.59
35920	01/12/2017	CLEAVELAND/PRICE INC.	CHK	CLR	\$996.90
36052	02/09/2017	CORRPRO COMPANIES	CHK	CLR	\$4,300.00
36130	02/24/2017	CROM ENGINEERING & CONSTRUCTIO	CHK	O/S	\$15,396.25
36054	02/09/2017	CRUMPTON WELDING SUPPLY	CHK	CLR	\$96.70
35986	01/27/2017	D. M. CONSTRUCTION CORP.	CHK	CLR	\$8,573.68
36133	02/24/2017	D. M. CONSTRUCTION CORP.	CHK	O/S	\$10,405.94
35923	01/12/2017	DELL MARKETING L.P.	CHK	CLR	\$3,389.13
36013	01/27/2017	DESOTO AUTOMOTIVE ENTERPRISES I	CHK	CLR	\$26,675.50
36115	02/24/2017	DESOTO AUTOMOTIVE ENTERPRISES	CHK	O/S	\$389.51
35922	01/12/2017	DESOTO COUNTY	CHK	CLR	\$66,333.33
36056	02/09/2017	DESOTO COUNTY	CHK	CLR	\$66,333.33
36057	02/09/2017	DESOTO COUNTY WATER UTILITY	CHK	CLR	\$2,047.05
35942	01/12/2017	DEX IMAGING	CHK	CLR	\$703.57
35924	01/12/2017	DIANE R. SALZ	CHK	CLR	\$3,750.00
36058	02/09/2017	DIANE R. SALZ	CHK	CLR	\$3,750.00
35921	01/12/2017	DILLER-BROWN & ASSOC. INC.	CHK	CLR	\$801.73
36055	02/09/2017	DILLER-BROWN & ASSOC. INC.	CHK	CLR	\$580.39
35887	01/12/2017	DMS-FINANCIAL MGMT SERVICES	CHK	CLR	\$204.36
35958	01/27/2017	DMS-FINANCIAL MGMT SERVICES	CHK	CLR	\$75.60
36019	02/09/2017	DMS-FINANCIAL MGMT SERVICES	CHK	CLR	\$204.56
36097	02/24/2017	DMS-FINANCIAL MGMT SERVICES	CHK	O/S	\$67.23
36135	02/24/2017	E.F. GAINES SURVEYING SERVICES, IN	CHK	O/S	\$6,200.00
35925	01/12/2017	EARTH BALANCE	CHK	CLR	\$12,295.00
35987	01/27/2017	EARTH BALANCE	CHK	CLR	\$11,017.25
36059	02/09/2017	EARTH BALANCE	CHK	CLR	\$6,155.00
36134	02/24/2017	EARTH BALANCE	CHK	O/S	\$2,303.64
36035	02/09/2017	ENDRESS+HAUSER, INC.	CHK	CLR	\$1,529.74
36060	02/09/2017	ERPORTAL SOFTWARE, INC.	CHK	CLR	\$550.00
35905	01/12/2017	EUROFINS EATON ANALYTICAL, INC.	CHK	CLR	\$790.00
36036	02/09/2017	EUROFINS EATON ANALYTICAL, INC.	CHK	CLR	\$395.00
35962	01/27/2017	FEDERAL EXPRESS	CHK	CLR	\$11.84
36032	02/09/2017	FEI-FT.MYERS WATERWORKS #127	CHK	CLR	\$99.75
36109	02/24/2017	FEI-FT.MYERS WATERWORKS #127	CHK	O/S	\$450.12
36030	02/09/2017	FENDER'S TIRE & BATTERY INC.	CHK	CLR	\$331.50
35927	01/12/2017	FETE CATERING	CHK	VOID	\$3,613.12
35892	01/12/2017	FISHER SCIENTIFIC	CHK	CLR	\$661.48
36022	02/09/2017	FISHER SCIENTIFIC	CHK	CLR	\$2,346.31
36102	02/24/2017	FISHER SCIENTIFIC	CHK	O/S	\$760.37
36014	01/27/2017	FLA DEPT OF ENVIRONMENTAL PROT	CHK	CLR	\$1,000.00
36165	02/25/2017	FLA DEPT OF ENVIRONMENTAL PROT	CHK	O/S	\$900.00
36040	02/09/2017	FLORIDA DEPARTMENT OF STATE	CHK	CLR	\$48.86
36119	02/24/2017	FLORIDA DEPARTMENT OF STATE	CHK	O/S	\$33.18
FRSDEC2016	01/05/2017	FLORIDA DIVISION OF RETIREMENT	CHK	CLR	\$31,681.28
FRSJAN2017	02/07/2017	FLORIDA DIVISION OF RETIREMENT	CHK	CLR	\$25,413.23
FRSFEB2017		FLORIDA DIVISION OF RETIREMENT	CHK	CLR	\$25,037.65
35928	01/12/2017	FLORIDA ENGINEERING FOUNDATION	CHK	CLR	\$200.00
35988	01/27/2017	FLORIDA POWER & LIGHT COMPANY	CHK	CLR	\$105,274.67
36137	02/24/2017	FLORIDA POWER & LIGHT COMPANY	CHK	O/S	\$120,688.33
36064	02/09/2017	FLORIDA TECHNICAL PRODUCTS, INC.	CHK	CLR	\$2,382.33
36062	02/09/2017	FLORIDA U.C. FUND	CHK	CLR	\$1,650.00
35926	01/12/2017	FLUID CONTROL SPECIALTIES, INC.	CHK	CLR	\$984.00
36061	02/09/2017	FLUID CONTROL SPECIALTIES, INC.	CHK	CLR	\$857.50
36136	02/24/2017	FLUID CONTROL SPECIALTIES, INC.	CHK	O/S	\$1,318.72
35929	01/12/2017	FRONTIER COMMUNICATIONS	CHK	CLR	\$214.99
36063	02/09/2017	FRONTIER COMMUNICATIONS	CHK	CLR	\$214.99
35830	01/12/2017	GE SENSING	CHK	CLR	\$939.41
35881	01/04/2017	GLATFELTER CLAIMS MANAGEMENT, I	CHK	CLR	\$5,000.00
35989	01/27/2017	GOODYEAR AUTO SERVICE CENTER	CHK	CLR	\$784.28

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**

**CHECK REGISTER: JANUARY & FEBRUARY 2017**

**Alphabetically By Vendor**

<b>Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)</b>					
<b>Document Number</b>	<b>Date</b>	<b>Payee Name / Description</b>	<b>Type</b>	<b>Status</b>	<b>Amount</b>
38116	02/24/2017	GRAINGER	CHK	O/S	\$292.47
36034	02/09/2017	GRAYBAR	CHK	CLR	\$4,528.38
35894	01/12/2017	HACH COMPANY	CHK	CLR	\$3,571.11
35964	01/27/2017	HACH COMPANY	CHK	CLR	\$1,357.37
36023	02/09/2017	HACH COMPANY	CHK	CLR	\$2,017.31
36105	02/24/2017	HACH COMPANY	CHK	O/S	\$603.39
35931	01/12/2017	HAWKINS, INC.	CHK	CLR	\$671.00
35932	01/12/2017	HAZEN AND SAWYER	CHK	CLR	\$23,214.50
36068	02/09/2017	HAZEN AND SAWYER	CHK	CLR	\$22,288.00
36027	02/09/2017	HDR ENGINEERING INC.	CHK	CLR	\$10,893.70
35972	01/27/2017	HIME PHOTOGRAPHY	CHK	CLR	\$450.00
36110	02/24/2017	HIME PHOTOGRAPHY	CHK	O/S	\$1,725.00
35896	01/12/2017	HOME DEPOT	CHK	CLR	\$3,319.49
35967	01/27/2017	HOME DEPOT	CHK	CLR	\$256.95
36026	02/09/2017	HOME DEPOT	CHK	CLR	\$908.11
36107	02/24/2017	HOME DEPOT	CHK	O/S	\$301.74
35906	01/12/2017	HUDSON PUMP	CHK	CLR	\$8,368.78
35991	01/27/2017	HVMI, LLC	CHK	CLR	\$6,895.10
36139	02/24/2017	HVMI, LLC	CHK	O/S	\$8,926.10
36140	02/24/2017	ISA	CHK	O/S	\$120.00
36143	02/24/2017	J. H. HAM ENGINEERING INC.	CHK	O/S	\$1,173.00
35893	01/27/2017	JANICKI ENVIRONMENTAL, INC.	CHK	CLR	\$22,094.00
36141	02/24/2017	JANICKI ENVIRONMENTAL, INC.	CHK	O/S	\$6,920.00
35992	01/27/2017	JAN-PRO CLEANING SYSTEMS OF SW	CHK	CLR	\$495.00
36068	02/09/2017	JAN-PRO CLEANING SYSTEMS OF SW	CHK	CLR	\$495.00
35933	01/12/2017	JAN-PRO OF MANASOTA	CHK	CLR	\$249.00
36067	02/09/2017	JAN-PRO OF MANASOTA	CHK	CLR	\$249.00
35934	01/12/2017	JOHNSON ENGINEERING, INC.	CHK	CLR	\$16,225.93
36142	02/24/2017	JOHNSON ENGINEERING, INC.	CHK	O/S	\$18,402.50
35955	01/12/2017	KEETON'S OFFICE & ART SUPPLY	CHK	CLR	\$1,339.71
36015	01/27/2017	KEETON'S OFFICE & ART SUPPLY	CHK	CLR	\$634.11
36089	02/09/2017	KEETON'S OFFICE & ART SUPPLY	CHK	CLR	\$637.92
36144	02/24/2017	KEETON'S OFFICE & ART SUPPLY	CHK	O/S	\$380.83
35938	01/12/2017	KEVIN MORRIS	CHK	CLR	\$61.75
36076	02/09/2017	KEVIN MORRIS	CHK	CLR	\$389.00
36070	02/09/2017	KIMLEY-HORN AND ASSOCIATES, INC.	CHK	CLR	\$9,706.88
35895	01/12/2017	KINGSWAY ACE HARDWARE	CHK	CLR	\$321.24
35965	01/27/2017	KINGSWAY ACE HARDWARE	CHK	CLR	\$119.95
36024	02/09/2017	KINGSWAY ACE HARDWARE	CHK	CLR	\$140.89
36145	02/24/2017	L.I.S. INC.	CHK	O/S	\$198.81
36071	02/09/2017	LABORATORY DATA CONSULTANTS FL	CHK	CLR	\$2,366.25
36072	02/09/2017	M&M CONTRACTORS INC.	CHK	CLR	\$8,150.15
36074	02/09/2017	MADER ELECTRIC, INC.	CHK	CLR	\$8,606.59
36146	02/24/2017	MADER ELECTRIC, INC.	CHK	O/S	\$8,588.86
35904	01/12/2017	MAILFINANCE	CHK	CLR	\$299.61
36075	02/09/2017	MANSON BOLVES DONALDSON VARN,	CHK	CLR	\$13,503.40
36073	02/09/2017	MARINE CONTRACTING GROUP INC.	CHK	CLR	\$197,989.87
35938	01/12/2017	McCABE & ASSOCIATES	CHK	CLR	\$2,400.00
36025	02/09/2017	MCMASTER-CARR SUPPLY CO	CHK	CLR	\$1,481.03
35937	01/12/2017	METTLER-TOLEDO, LLC	CHK	CLR	\$343.20
35968	01/27/2017	MONRO MUFFLER BRAKE, INC.	CHK	CLR	\$27.48
35885	01/12/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	CLR	\$1,417.43
35956	01/27/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	CLR	\$648.44
36017	02/09/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	CLR	\$4,108.33
36095	02/24/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	O/S	\$878.84
36077	02/09/2017	NATIONAL BUSINESS FURNITURE, LLC	CHK	CLR	\$640.00
35939	01/12/2017	NATURAL RESOURCES LLC	CHK	CLR	\$19,741.90
36103	02/24/2017	PAGE MECHANICAL GROUP, INC.	CHK	O/S	\$2,270.41
36081	02/09/2017	PHENOVA, INC.	CHK	CLR	\$268.65
35883	01/12/2017	PRO-CHEM INC.	CHK	CLR	\$994.92
36016	02/09/2017	PRO-CHEM INC.	CHK	CLR	\$601.25
36000	01/27/2017	PROGRESSIVE WATER RESOURCES, L	CHK	CLR	\$12,500.00
36150	02/24/2017	PROGRESSIVE WATER RESOURCES, L	CHK	O/S	\$11,535.00
36082	02/09/2017	PUBLIC RISK INSURANCE AGENCY	CHK	CLR	\$833.00
36149	02/24/2017	PUBLIC RISK INSURANCE AGENCY	CHK	O/S	\$211,833.00
36111	02/24/2017	QUALITY STARTER & ALT SER INC.	CHK	O/S	\$182.90
36003	01/27/2017	RANCH PROPERTY HOLDINGS LLC	CHK	CLR	\$12,640.44
36083	02/09/2017	RANCH PROPERTY HOLDINGS LLC	CHK	O/S	\$12,640.44
35944	01/12/2017	RAPID SECURITY SOLUTIONS, LLC	CHK	CLR	\$115.00
36084	02/09/2017	RAPID SECURITY SOLUTIONS, LLC	CHK	CLR	\$2,172.95
35943	01/12/2017	RC Beech & Assoc	CHK	CLR	\$16,258.00

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Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)					
Document Number	Date	Payee Name / Description	Type	Status	Amount
36001	01/27/2017	RICHARD ANDERSON	CHK	CLR	\$140.78
36002	01/27/2017	Rob Wilson	CHK	O/S	\$24.84
36151	02/24/2017	Rob Wilson	CHK	O/S	\$125.19
36085	02/09/2017	SAFE TECH INC.	CHK	CLR	\$288.00
35975	01/27/2017	SAM'S CLUB	CHK	CLR	\$87.89
36114	02/24/2017	SAM'S CLUB	CHK	O/S	\$181.48
35945	01/12/2017	SARASOTA CTY ENVIRONMENTL UTILI	CHK	CLR	\$14,474.04
36153	02/24/2017	SARASOTA CTY ENVIRONMENTL UTILI	CHK	O/S	\$10,871.87
35902	01/12/2017	SARASOTA HERALD TRIBUNE	CHK	CLR	\$93.50
35970	01/27/2017	SARASOTA HERALD TRIBUNE	CHK	CLR	\$93.50
36033	02/09/2017	SARASOTA HERALD TRIBUNE	CHK	CLR	\$151.25
36155	02/24/2017	SARASOTA TROPHY & AWARDS INC.	CHK	O/S	\$75.50
35946	01/12/2017	SHEARER CONSULTING INC.	CHK	CLR	\$2,500.00
36154	02/24/2017	SHEARER CONSULTING INC.	CHK	O/S	\$3,000.00
35901	01/12/2017	SIEMENS INDUSTRY, INC.	CHK	CLR	\$1,340.00
36031	02/09/2017	SIEMENS INDUSTRY, INC.	CHK	CLR	\$300.00
36086	02/09/2017	SIMS CRANE & EQUIPMENT	CHK	CLR	\$2,953.20
36152	02/24/2017	SIMS CRANE & EQUIPMENT	CHK	O/S	\$1,476.60
36005	01/27/2017	SMITH RANCH & GARDEN, INC.	CHK	CLR	\$599.20
35897	01/12/2017	SPECIALTY PARTS	CHK	CLR	\$681.56
36028	02/09/2017	SPECIALTY PARTS	CHK	CLR	\$221.88
35898	01/12/2017	STANTEC CONSULTING SERVICES	CHK	CLR	\$86,968.80
36029	02/09/2017	STANTEC CONSULTING SERVICES	CHK	CLR	\$19,234.95
35948	01/12/2017	STANTEC CONSULTING SERVICES INC	CHK	CLR	\$2,401.00
PR1617	01/04/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06
WH12017	01/18/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06
2317PRDEDUCT	02/03/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06
PR21717	02/17/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06
35947	01/12/2017	STRATEGIC PEST CONTROL OF SW FL	CHK	CLR	\$85.00
35989	01/27/2017	SUNSHINE STATE ONE CALL OF FL, IN	CHK	CLR	\$36.32
36148	02/24/2017	SUNSHINE STATE ONE CALL OF FL, IN	CHK	O/S	\$36.32
36006	01/27/2017	TERRI GREEN	CHK	O/S	\$13.91
35949	01/12/2017	THE BANK OF NEW YORK MELLON	CHK	CLR	\$750.00
36156	02/24/2017	THE BANK OF NEW YORK MELLON	CHK	O/S	\$750.00
36004	01/27/2017	THE SHIPPING POST	CHK	CLR	\$25.97
35889	01/12/2017	THE SUN	CHK	CLR	\$57.20
35961	01/27/2017	THE SUN	CHK	CLR	\$58.63
36100	02/24/2017	THE SUN	CHK	O/S	\$81.51
36087	02/09/2017	THERMO ELECTRON NORTH AMERICA	CHK	CLR	\$975.00
35950	01/12/2017	TKW CONSULTING ENGINEERS, INC.	CHK	CLR	\$7,547.50
36088	02/09/2017	TKW CONSULTING ENGINEERS, INC.	CHK	CLR	\$5,312.78
36157	02/24/2017	TKW CONSULTING ENGINEERS, INC.	CHK	O/S	\$6,893.75
36037	02/09/2017	TOTALFUNDS BY HASLER	CHK	CLR	\$200.00
35951	01/12/2017	TRACTOR SUPPLY COMPANY CREDIT	CHK	CLR	\$28.14
36089	02/09/2017	TRACTOR SUPPLY COMPANY CREDIT	CHK	CLR	\$139.96
35903	01/12/2017	TRANSCAT, INC.	CHK	CLR	\$275.92
35971	01/27/2017	TRANSCAT, INC.	CHK	CLR	\$1,348.31
36007	01/27/2017	TRINOVA INC.	CHK	CLR	\$1,271.72
35886	01/12/2017	TRULY NOLEN BRANCH 079	CHK	CLR	\$178.00
36086	02/24/2017	TRULY NOLEN BRANCH 079	CHK	O/S	\$178.00
35957	01/27/2017	TRULY NOLEN OF AMERICA	CHK	CLR	\$442.50
35953	01/12/2017	U.S. BANK EQUIPMENT FINANCE	CHK	CLR	\$1,119.61
36009	01/27/2017	U.S. BANK EQUIPMENT FINANCE	CHK	CLR	\$362.35
36091	02/09/2017	U.S. BANK EQUIPMENT FINANCE	CHK	CLR	\$1,119.61
36160	02/24/2017	U.S. BANK EQUIPMENT FINANCE	CHK	O/S	\$362.35
36010	01/27/2017	UNITED STATES GEOLOGICAL SURVEY	CHK	CLR	\$7,025.00
35854	01/12/2017	UNITED SYSTEMS COMPUTER GROUP	CHK	CLR	\$7,510.00
36158	02/24/2017	UNIVERSITY ENTERPRISES, INC.	CHK	O/S	\$114.00
35952	01/12/2017	UPS	CHK	CLR	\$54.64
36008	01/27/2017	UPS	CHK	CLR	\$375.09
36090	02/09/2017	UPS	CHK	CLR	\$83.35
36159	02/24/2017	UPS	CHK	O/S	\$448.78
35909	01/12/2017	USA BLUEBOOK	CHK	CLR	\$964.27
35976	01/27/2017	USA BLUEBOOK	CHK	CLR	\$178.68
36039	02/09/2017	USA BLUEBOOK	CHK	CLR	\$107.77
36117	02/24/2017	USA BLUEBOOK	CHK	O/S	\$2,927.18
CONT1617	01/04/2017	Valic	CHK	CLR	\$6,542.85
CONTR12017	01/18/2017	Valic	CHK	CLR	\$8,630.50
CONTR2317	02/01/2017	Valic	CHK	CLR	\$6,545.40
CONTR21717	02/17/2017	Valic	CHK	CLR	\$6,481.42
CONTR3317	02/26/2017	Valic	CHK	CLR	\$6,897.47

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
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<b>Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)</b>					
<b>Document Number</b>	<b>Date</b>	<b>Payee Name / Description</b>	<b>Type</b>	<b>Status</b>	<b>Amount</b>
36011	01/27/2017	VANASSE HANGEN BRUSTLIN, INC	CHK	CLR	\$8,102.50
36161	02/24/2017	VANASSE HANGEN BRUSTLIN, INC	CHK	O/S	\$1,037.50
35882	01/04/2017	VIDEOGUY PRODUCTIONS	CHK	CLR	\$1,000.00
36092	02/09/2017	VIDEOGUY PRODUCTIONS	CHK	CLR	\$2,200.00
36093	02/09/2017	VOLUNTARY EXTRA DUTY ACCOUNT	CHK	CLR	\$120.00
35908	01/12/2017	VOYAGER FLEET SYSTEMS, INC.	CHK	CLR	\$1,782.60
36038	02/09/2017	VOYAGER FLEET SYSTEMS, INC.	CHK	CLR	\$1,936.51
35891	01/12/2017	WOMACK SANITATION INC.	CHK	CLR	\$298.00
36021	02/09/2017	WOMACK SANITATION INC.	CHK	CLR	\$1,202.00
36163	02/24/2017	XBYTE TECHNOLOGIES	CHK	O/S	\$15,252.00
36164	02/24/2017	XYLEM DEWATERING SOLUTIONS	CHK	O/S	\$29,100.00
<b>Check Total</b>					<b>\$2,709,377.98</b>

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
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Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)					
Document Number	Date	Payee Name / Description	Type	Status	Amount
36149	02/24/2017	PUBLIC RISK INSURANCE AGENCY	CHK	O/S	\$211,833.00
36073	02/09/2017	MARINE CONTRACTING GROUP INC.	CHK	CLR	\$197,989.87
35918	01/12/2017	CHARLOTTE COUNTY UTILITIES	CHK	CLR	\$164,694.84
36051	02/09/2017	CHARLOTTE COUNTY UTILITIES	CHK	CLR	\$164,694.84
36137	02/24/2017	FLORIDA POWER & LIGHT COMPANY	CHK	O/S	\$120,668.33
35988	01/27/2017	FLORIDA POWER & LIGHT COMPANY	CHK	CLR	\$105,274.67
35983	01/27/2017	CHARLOTTE COUNTY BD OF COMMISS	CHK	CLR	\$77,938.03
35919	01/12/2017	CHARLOTTE COUNTY BD OF COMMISS	CHK	CLR	\$75,413.41
35960	01/27/2017	ALLIED UNIVERSAL CORP.	CHK	CLR	\$73,004.91
35998	01/27/2017	C & S CHEMICALS INC.	CHK	CLR	\$67,541.03
35898	01/12/2017	STANTEC CONSULTING SERVICES	CHK	CLR	\$68,988.80
35922	01/12/2017	DESOTO COUNTY	CHK	CLR	\$66,333.33
36056	02/09/2017	DESOTO COUNTY	CHK	CLR	\$66,333.33
36080	02/09/2017	C & S CHEMICALS INC.	CHK	CLR	\$66,024.50
35981	01/27/2017	CABOT CORPORATION	CHK	CLR	\$45,001.00
35941	01/12/2017	C & S CHEMICALS INC.	CHK	CLR	\$44,272.02
36020	02/09/2017	ALLIED UNIVERSAL CORP.	CHK	CLR	\$36,711.91
FRSDEC2016	01/05/2017	FLORIDA DIVISION OF RETIREMENT	CHK	CLR	\$31,681.28
36099	02/24/2017	ALLIED UNIVERSAL CORP.	CHK	O/S	\$29,207.60
36164	02/24/2017	XYLEM DEWATERING SOLUTIONS	CHK	O/S	\$29,100.00
36013	01/27/2017	DESOTO AUTOMOTIVE ENTERPRISES I	CHK	CLR	\$26,675.50
FRSJAN2017	02/07/2017	FLORIDA DIVISION OF RETIREMENT	CHK	CLR	\$25,413.23
FRSFEB2017	02/28/2017	FLORIDA DIVISION OF RETIREMENT	CHK	CLR	\$25,037.65
35932	01/12/2017	HAZEN AND SAWYER	CHK	CLR	\$23,214.50
35888	01/12/2017	ALLIED UNIVERSAL CORP.	CHK	CLR	\$22,873.66
36050	02/09/2017	CABOT CORPORATION	CHK	CLR	\$22,297.00
36066	02/09/2017	HAZEN AND SAWYER	CHK	CLR	\$22,288.00
35993	01/27/2017	JANICKI ENVIRONMENTAL, INC.	CHK	CLR	\$22,094.00
36147	02/24/2017	C & S CHEMICALS INC.	CHK	O/S	\$21,624.87
36128	02/24/2017	CABOT CORPORATION	CHK	O/S	\$21,197.00
35939	01/12/2017	NATURAL RESOURCES LLC	CHK	CLR	\$19,741.90
36029	02/09/2017	STANTEC CONSULTING SERVICES	CHK	CLR	\$19,234.95
36142	02/24/2017	JOHNSON ENGINEERING, INC.	CHK	O/S	\$18,402.60
35943	01/12/2017	RC Beach & Assoc	CHK	CLR	\$16,258.00
35934	01/12/2017	JOHNSON ENGINEERING, INC.	CHK	CLR	\$16,225.93
36130	02/24/2017	CROM ENGINEERING & CONSTRUCTIO	CHK	O/S	\$15,396.25
36183	02/24/2017	XBYTE TECHNOLOGIES	CHK	O/S	\$15,262.00
35913	01/12/2017	BLACK & VEATCH	CHK	CLR	\$14,994.00
35945	01/12/2017	SARASOTA CTY ENVIRONMENTL UTILI	CHK	CLR	\$14,474.04
36075	02/09/2017	MANSON BOLVES DONALDSON VARN,	CHK	CLR	\$13,503.40
36003	01/27/2017	RANCH PROPERTY HOLDINGS LLC	CHK	CLR	\$12,640.44
36083	02/09/2017	RANCH PROPERTY HOLDINGS LLC	CHK	O/S	\$12,640.44
36000	01/27/2017	PROGRESSIVE WATER RESOURCES, L	CHK	CLR	\$12,500.00
36125	02/24/2017	BLACK & VEATCH	CHK	O/S	\$12,495.00
35925	01/12/2017	EARTH BALANCE	CHK	CLR	\$12,295.00
36120	02/24/2017	AECOM TECHNICAL SERVICES, INC.	CHK	O/S	\$12,274.00
35914	01/12/2017	BANKS ENGINEERING	CHK	CLR	\$12,100.00
36150	02/24/2017	PROGRESSIVE WATER RESOURCES, L	CHK	O/S	\$11,536.00
36127	02/24/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	O/S	\$11,443.85
35987	01/27/2017	EARTH BALANCE	CHK	CLR	\$11,017.25
36027	02/09/2017	HDR ENGINEERING INC.	CHK	CLR	\$10,893.70
36153	02/24/2017	SARASOTA CTY ENVIRONMENTL UTILI	CHK	O/S	\$10,871.87
36133	02/24/2017	D. M. CONSTRUCTION CORP.	CHK	O/S	\$10,405.94
36070	02/09/2017	KIMLEY-HORN AND ASSOCIATES, INC.	CHK	CLR	\$9,708.88
36044	02/09/2017	AUDIO VISUAL INNOVATIONS, INC.	CHK	CLR	\$9,232.87
36139	02/24/2017	HVMI, LLC	CHK	O/S	\$8,926.10
36074	02/09/2017	MADER ELECTRIC, INC.	CHK	CLR	\$8,606.59
36146	02/24/2017	MADER ELECTRIC, INC.	CHK	O/S	\$8,586.86
35986	01/27/2017	D. M. CONSTRUCTION CORP.	CHK	CLR	\$8,573.68
35906	01/12/2017	HUDSON PUMP	CHK	CLR	\$8,368.78
36072	02/09/2017	M&M CONTRACTORS INC.	CHK	CLR	\$8,150.15
36011	01/27/2017	VANASSE HANGEN BRUSTLIN, INC	CHK	CLR	\$8,102.50
35950	01/12/2017	TKW CONSULTING ENGINEERS, INC.	CHK	CLR	\$7,547.50
35954	01/12/2017	UNITED SYSTEMS COMPUTER GROUP	CHK	CLR	\$7,510.00
36010	01/27/2017	UNITED STATES GEOLOGICAL SURVEY	CHK	CLR	\$7,025.00
36141	02/24/2017	JANICKI ENVIRONMENTAL, INC.	CHK	O/S	\$6,920.00
35991	01/27/2017	HVMI, LLC	CHK	CLR	\$6,895.10
36157	02/24/2017	TKW CONSULTING ENGINEERS, INC.	CHK	O/S	\$6,893.75
CONT3317	02/28/2017	Valic	CHK	CLR	\$6,697.47
CONTR12017	01/18/2017	Valic	CHK	CLR	\$6,630.50
CONT2317	02/01/2017	Valic	CHK	CLR	\$6,545.40

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
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Document Number	Date	Payee Name / Description	Type	Status	Amount
CONT1817	01/04/2017	Valic	CHK	CLR	\$6,542.85
CONT21717	02/17/2017	Valic	CHK	CLR	\$6,481.42
36136	02/24/2017	E.F. GAINES SURVEYING SERVICES, IN	CHK	O/S	\$6,200.00
36059	02/09/2017	EARTH BALANCE	CHK	CLR	\$6,155.00
36124	02/24/2017	ATKINS NORTH AMERICA, INC.	CHK	O/S	\$5,786.52
35978	01/27/2017	ATKINS NORTH AMERICA, INC.	CHK	CLR	\$5,719.46
36123	02/24/2017	AMAZON	CHK	O/S	\$5,538.74
35912	01/12/2017	ARGILA ENTERPRISES, INC.	CHK	CLR	\$5,400.00
35900	01/12/2017	AIR CENTERS-FLORIDA	CHK	CLR	\$5,317.49
36088	02/09/2017	TKW CONSULTING ENGINEERS, INC.	CHK	CLR	\$5,312.78
35881	01/04/2017	GLATFELTER CLAIMS MANAGEMENT, I	CHK	CLR	\$5,000.00
36034	02/09/2017	GRAYBAR	CHK	CLR	\$4,526.38
36052	02/09/2017	CORRPRO COMPANIES	CHK	CLR	\$4,300.00
35917	01/12/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	CLR	\$4,195.85
36129	02/24/2017	CHARLOTTE COUNTY BCC - LANDFILL	CHK	O/S	\$4,190.31
36017	02/09/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	CLR	\$4,108.33
36113	02/24/2017	BUSINESS CARD	CHK	O/S	\$4,087.63
36012	01/27/2017	AECOM TECHNICAL SERVICES, INC.	CHK	CLR	\$3,968.50
35924	01/12/2017	DIANE R. SALZ	CHK	CLR	\$3,750.00
36058	02/09/2017	DIANE R. SALZ	CHK	CLR	\$3,750.00
35927	01/12/2017	FETE CATERING	CHK	VOID	\$3,613.12
35894	01/12/2017	HACH COMPANY	CHK	CLR	\$3,571.11
35982	01/27/2017	CHARLOTTE COUNTY BCC - LANDFILL	CHK	CLR	\$3,452.49
35923	01/12/2017	DELL MARKETING L.P.	CHK	CLR	\$3,389.13
35896	01/12/2017	HOME DEPOT	CHK	CLR	\$3,319.49
36043	02/09/2017	ARGILA ENTERPRISES, INC.	CHK	CLR	\$3,150.00
36138	02/24/2017	AIRGAS SPECIALTY PRODUCTS	CHK	O/S	\$3,035.14
36154	02/24/2017	SHEARER CONSULTING INC.	CHK	O/S	\$3,000.00
36049	02/09/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	CLR	\$2,995.00
36065	02/09/2017	AIRGAS SPECIALTY PRODUCTS	CHK	CLR	\$2,965.93
36086	02/09/2017	SIMS CRANE & EQUIPMENT	CHK	CLR	\$2,953.20
35990	01/27/2017	AIRGAS SPECIALTY PRODUCTS	CHK	CLR	\$2,942.42
36117	02/24/2017	USA BLUEBOOK	CHK	O/S	\$2,827.18
36046	02/09/2017	BANKS ENGINEERING	CHK	CLR	\$2,825.00
36128	02/24/2017	BATTERIES PLUS BULBS #451	CHK	O/S	\$2,821.99
35915	01/12/2017	BATTERIES PLUS BULBS #451	CHK	CLR	\$2,785.82
36041	02/09/2017	ALLIED ELECTRONICS, INC.	CHK	CLR	\$2,593.52
35910	01/12/2017	ALLIED ELECTRONICS, INC.	CHK	CLR	\$2,589.80
35946	01/12/2017	SHEARER CONSULTING INC.	CHK	CLR	\$2,500.00
35948	01/12/2017	STANTEC CONSULTING SERVICES INC	CHK	CLR	\$2,401.00
35936	01/12/2017	McCABE & ASSOCIATES	CHK	CLR	\$2,400.00
36064	02/09/2017	FLORIDA TECHNICAL PRODUCTS, INC.	CHK	CLR	\$2,382.33
36071	02/09/2017	LABORATORY DATA CONSULTANTS FL	CHK	CLR	\$2,366.25
36022	02/09/2017	FISHER SCIENTIFIC	CHK	CLR	\$2,346.31
36098	02/24/2017	CIMTEC AUTOMATION, LLC	CHK	O/S	\$2,312.96
36134	02/24/2017	EARTH BALANCE	CHK	O/S	\$2,303.64
36103	02/24/2017	PAGE MECHANICAL GROUP, INC.	CHK	O/S	\$2,270.41
36108	02/24/2017	BUSINESS CARD	CHK	O/S	\$2,223.47
36082	02/09/2017	VIDEOGUY PRODUCTIONS	CHK	CLR	\$2,200.00
36084	02/09/2017	RAPID SECURITY SOLUTIONS, LLC	CHK	CLR	\$2,172.95
36057	02/09/2017	DESOTO COUNTY WATER UTILITY	CHK	CLR	\$2,047.05
36023	02/09/2017	HACH COMPANY	CHK	CLR	\$2,017.31
36038	02/09/2017	VOYAGER FLEET SYSTEMS, INC.	CHK	CLR	\$1,938.51
35977	01/27/2017	CENTURYLINK	CHK	CLR	\$1,869.92
35908	01/12/2017	VOYAGER FLEET SYSTEMS, INC.	CHK	CLR	\$1,782.80
35893	01/12/2017	ANIXTER INC.	CHK	CLR	\$1,780.32
36182	02/24/2017	ASWATHY WARRIER	CHK	O/S	\$1,737.50
36110	02/24/2017	HIME PHOTOGRAPHY	CHK	O/S	\$1,725.00
36062	02/09/2017	FLORIDA U.C. FUND	CHK	CLR	\$1,650.00
36106	02/24/2017	BUSINESS CARD	CHK	O/S	\$1,638.28
36035	02/09/2017	ENDRESS+HAUSER, INC.	CHK	CLR	\$1,529.74
36025	02/09/2017	MCMaster-CARR SUPPLY CO	CHK	CLR	\$1,481.03
35980	01/27/2017	BENCHMARK ENVIROANALYTICAL INC	CHK	CLR	\$1,478.00
36152	02/24/2017	SIMS CRANE & EQUIPMENT	CHK	O/S	\$1,476.60
35885	01/12/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	CLR	\$1,417.43
35964	01/27/2017	HACH COMPANY	CHK	CLR	\$1,357.37
35971	01/27/2017	TRANSCAT, INC.	CHK	CLR	\$1,348.31
35901	01/12/2017	SIEMENS INDUSTRY, INC.	CHK	CLR	\$1,340.00
35955	01/12/2017	KEETON'S OFFICE & ART SUPPLY	CHK	CLR	\$1,339.71
36136	02/24/2017	FLUID CONTROL SPECIALTIES, INC.	CHK	O/S	\$1,318.72
36121	02/24/2017	ALLIED ELECTRONICS, INC.	CHK	O/S	\$1,314.77



**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**CHECK REGISTER: JANUARY & FEBRUARY 2017**  
**By Amount Largest to Smallest**

Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)					
Document Number	Date	Payee Name / Description	Type	Status	Amount
36007	01/27/2017	TRINOVA INC.	CHK	CLR	\$1,271.72
36021	02/09/2017	WOMACK SANITATION INC.	CHK	CLR	\$1,202.00
36143	02/24/2017	J. H. HAM ENGINEERING INC.	CHK	O/S	\$1,173.00
36053	02/09/2017	CHARLOTTE PLUMBING K & BATH INC.	CHK	CLR	\$1,170.00
35984	01/27/2017	CHARLOTTE HOME DECOR	CHK	CLR	\$1,166.00
36047	02/09/2017	BATTERIES PLUS BULBS #451	CHK	CLR	\$1,129.37
35953	01/12/2017	U.S. BANK EQUIPMENT FINANCE	CHK	CLR	\$1,119.61
36091	02/09/2017	U.S. BANK EQUIPMENT FINANCE	CHK	CLR	\$1,119.61
35907	01/12/2017	AWC, INC.	CHK	CLR	\$1,089.91
36161	02/24/2017	VANASSE HANGEN BRUSTLIN, INC	CHK	O/S	\$1,037.50
36014	01/27/2017	FLA DEPT OF ENVIRONMENTAL PROT	CHK	CLR	\$1,000.00
35882	01/04/2017	VIDEOGUY PRODUCTIONS	CHK	CLR	\$1,000.00
35920	01/12/2017	CLEAVELAND/PRICE INC.	CHK	CLR	\$999.90
35883	01/12/2017	PRO-CHEM INC.	CHK	CLR	\$994.92
PR1617	01/04/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06
WH12017	01/18/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06
2317PRDEDUCT	02/03/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06
PR21717	02/17/2017	STATE OF FLORIDA DISBURSEMENT U	CHK	CLR	\$993.06
36097	02/09/2017	THERMO ELECTRON NORTH AMERICA	CHK	CLR	\$975.00
35909	01/12/2017	USA BLUEBOOK	CHK	CLR	\$964.27
35926	01/12/2017	FLUID CONTROL SPECIALTIES, INC.	CHK	CLR	\$964.00
35930	01/12/2017	GE SENSING	CHK	CLR	\$939.41
36026	02/09/2017	HOME DEPOT	CHK	CLR	\$908.11
36165	02/25/2017	FLA DEPT OF ENVIRONMENTAL PROT	CHK	O/S	\$900.00
36095	02/24/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	O/S	\$878.84
36081	02/09/2017	FLUID CONTROL SPECIALTIES, INC.	CHK	CLR	\$857.50
35973	01/27/2017	BUSINESS CARD	CHK	CLR	\$852.55
36082	02/09/2017	PUBLIC RISK INSURANCE AGENCY	CHK	CLR	\$833.00
35969	01/27/2017	BUSINESS CARD	CHK	CLR	\$823.90
35921	01/12/2017	DILLER-BROWN & ASSOC. INC.	CHK	CLR	\$801.73
35905	01/12/2017	EUROFINS EATON ANALYTICAL, INC.	CHK	CLR	\$790.00
35989	01/27/2017	GOODYEAR AUTO SERVICE CENTER	CHK	CLR	\$784.28
36102	02/24/2017	FISHER SCIENTIFIC	CHK	O/S	\$780.37
35949	01/12/2017	THE BANK OF NEW YORK MELLON	CHK	CLR	\$750.00
36156	02/24/2017	THE BANK OF NEW YORK MELLON	CHK	O/S	\$750.00
35942	01/12/2017	DEX IMAGING	CHK	CLR	\$703.57
35897	01/12/2017	SPECIALTY PARTS	CHK	CLR	\$681.56
35931	01/12/2017	HAWKINS, INC.	CHK	CLR	\$671.00
35892	01/12/2017	FISHER SCIENTIFIC	CHK	CLR	\$661.48
35956	01/27/2017	MSC INDUSTRIAL SUPPLY CO.	CHK	CLR	\$646.44
36077	02/09/2017	NATIONAL BUSINESS FURNITURE, LLC	CHK	CLR	\$640.00
36089	02/09/2017	KEETON'S OFFICE & ART SUPPLY	CHK	CLR	\$637.92
36015	01/27/2017	KEETON'S OFFICE & ART SUPPLY	CHK	CLR	\$634.11
35899	01/12/2017	CINTAS	CHK	CLR	\$620.00
36105	02/24/2017	HACH COMPANY	CHK	O/S	\$603.39
36016	02/09/2017	PRO-CHEM INC.	CHK	CLR	\$601.25
36005	01/27/2017	SMITH RANCH & GARDEN, INC.	CHK	CLR	\$599.20
36055	02/09/2017	DILLER-BROWN & ASSOC. INC.	CHK	CLR	\$580.39
36131	02/24/2017	CHRISTOPHER M ROGERS	CHK	O/S	\$559.13
36080	02/09/2017	ERPORTAL SOFTWARE, INC.	CHK	CLR	\$550.00
36104	02/24/2017	ANIXTER INC.	CHK	O/S	\$496.79
35992	01/27/2017	JAN-PRO CLEANING SYSTEMS OF SW	CHK	CLR	\$495.00
36068	02/09/2017	JAN-PRO CLEANING SYSTEMS OF SW	CHK	CLR	\$495.00
36109	02/24/2017	FEI-FT.MYERS WATERWORKS #127	CHK	O/S	\$450.12
35972	01/27/2017	HIME PHOTOGRAPHY	CHK	CLR	\$450.00
36159	02/24/2017	UPS	CHK	O/S	\$448.78
35957	01/27/2017	TRULY NOLEN OF AMERICA	CHK	CLR	\$442.50
36036	02/09/2017	EUROFINS EATON ANALYTICAL, INC.	CHK	CLR	\$395.00
36115	02/24/2017	DESOTO AUTOMOTOVE ENTERPRISES	CHK	O/S	\$388.51
36144	02/24/2017	KEETON'S OFFICE & ART SUPPLY	CHK	O/S	\$380.83
36118	02/24/2017	CENTURYLINK	CHK	O/S	\$378.15
36008	01/27/2017	UPS	CHK	CLR	\$375.09
36076	02/09/2017	KEVIN MORRIS	CHK	CLR	\$369.00
36009	01/27/2017	U.S. BANK EQUIPMENT FINANCE	CHK	CLR	\$362.35
36160	02/24/2017	U.S. BANK EQUIPMENT FINANCE	CHK	O/S	\$362.35
36018	02/09/2017	CINTAS	CHK	CLR	\$358.59
35937	01/12/2017	METTLER-TOLEDO, LLC	CHK	CLR	\$343.20
35974	01/27/2017	BUSINESS CARD	CHK	CLR	\$339.10
36030	02/09/2017	FENDER'S TIRE & BATTERY INC.	CHK	CLR	\$331.50
35895	01/12/2017	KINGSWAY ACE HARDWARE	CHK	CLR	\$321.24
36107	02/24/2017	HOME DEPOT	CHK	O/S	\$301.74

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**

**CHECK REGISTER: JANUARY & FEBRUARY 2017**

**By Amount Largest to Smallest**

Bank Code: PUBLIC FUNDS INTEREST CHECKING (PNC)					
Document Number	Date	Payee Name / Description	Type	Status	Amount
36031	02/09/2017	SIEMENS INDUSTRY, INC.	CHK	CLR	\$300.00
35904	01/12/2017	MAILFINANCE	CHK	CLR	\$299.61
35891	01/12/2017	WOMACK SANITATION INC.	CHK	CLR	\$298.00
36116	02/24/2017	GRAINGER	CHK	O/S	\$292.47
36085	02/09/2017	SAFE TECH INC.	CHK	CLR	\$288.00
35903	01/12/2017	TRANSCAT, INC.	CHK	CLR	\$275.92
38094	02/24/2017	BLUSITE SOLUTIONS OF SOUTHWEST	CHK	O/S	\$269.25
36081	02/09/2017	PHENOVA, INC.	CHK	CLR	\$268.65
35967	01/27/2017	HOME DEPOT	CHK	CLR	\$256.95
36112	02/24/2017	BUSINESS CARD	CHK	O/S	\$253.31
35933	01/12/2017	JAN-PRO OF MANASOTA	CHK	CLR	\$249.00
36067	02/09/2017	JAN-PRO OF MANASOTA	CHK	CLR	\$249.00
36028	02/09/2017	SPECIALTY PARTS	CHK	CLR	\$221.88
35929	01/12/2017	FRONTIER COMMUNICATIONS	CHK	CLR	\$214.99
36063	02/09/2017	FRONTIER COMMUNICATIONS	CHK	CLR	\$214.99
35911	01/12/2017	ALL FLORIDA WATER-TAMPA	CHK	CLR	\$211.58
36042	02/09/2017	ALL FLORIDA WATER-TAMPA	CHK	CLR	\$211.58
36122	02/24/2017	ALL FLORIDA WATER-TAMPA	CHK	O/S	\$211.58
36019	02/09/2017	DMS-FINANCIAL MGMT SERVICES	CHK	CLR	\$204.56
35887	01/12/2017	DMS-FINANCIAL MGMT SERVICES	CHK	CLR	\$204.36
35928	01/12/2017	FLORIDA ENGINEERING FOUNDATION	CHK	CLR	\$200.00
36037	02/09/2017	TOTALFUNDS BY HASLER	CHK	CLR	\$200.00
36145	02/24/2017	L.I.S. INC.	CHK	O/S	\$198.81
36111	02/24/2017	QUALITY STARTER & ALT SER INC.	CHK	O/S	\$182.90
35976	01/27/2017	USA BLUEBOOK	CHK	CLR	\$178.88
35886	01/12/2017	TRULY NOLEN BRANCH 079	CHK	CLR	\$178.00
36096	02/24/2017	TRULY NOLEN BRANCH 079	CHK	O/S	\$178.00
36132	02/24/2017	CHENANGO SUPPLY CO., INC.	CHK	O/S	\$168.49
36114	02/24/2017	SAM'S CLUB	CHK	O/S	\$161.48
36033	02/09/2017	SARASOTA HERALD TRIBUNE	CHK	CLR	\$151.25
36001	01/27/2017	RICHARD ANDERSON	CHK	CLR	\$140.78
36024	02/09/2017	KINGSWAY ACE HARDWARE	CHK	CLR	\$140.69
36089	02/09/2017	TRACTOR SUPPLY COMPANY CREDIT	CHK	CLR	\$139.96
35966	01/27/2017	BUSINESS CARD	CHK	CLR	\$129.89
36151	02/24/2017	Rob Wilson	CHK	O/S	\$125.19
36140	02/24/2017	ISA	CHK	O/S	\$120.00
36093	02/09/2017	VOLUNTARY EXTRA DUTY ACCOUNT	CHK	CLR	\$120.00
35965	01/27/2017	KINGSWAY ACE HARDWARE	CHK	CLR	\$119.96
35944	01/12/2017	RAPID SECURITY SOLUTIONS, LLC	CHK	CLR	\$115.00
36158	02/24/2017	UNIVERSITY ENTERPRISES, INC.	CHK	O/S	\$114.00
36039	02/09/2017	USA BLUEBOOK	CHK	CLR	\$107.77
36032	02/09/2017	FEI-FT.MYERS WATERWORKS #127	CHK	CLR	\$99.75
36054	02/09/2017	CRUMPTON WELDING SUPPLY	CHK	CLR	\$98.70
35902	01/12/2017	SARASOTA HERALD TRIBUNE	CHK	CLR	\$93.50
35970	01/27/2017	SARASOTA HERALD TRIBUNE	CHK	CLR	\$93.50
35979	01/27/2017	AWWA	CHK	CLR	\$90.00
36045	02/09/2017	AWWA	CHK	CLR	\$90.00
35885	01/27/2017	CHENANGO SUPPLY CO., INC.	CHK	CLR	\$89.76
35975	01/27/2017	SAM'S CLUB	CHK	CLR	\$87.89
35947	01/12/2017	STRATEGIC PEST CONTROL OF SW FL	CHK	CLR	\$85.00
36090	02/09/2017	UPS	CHK	CLR	\$83.35
36100	02/24/2017	THE SUN	CHK	O/S	\$81.51
35958	01/27/2017	DMS-FINANCIAL MGMT SERVICES	CHK	CLR	\$75.60
36155	02/24/2017	SARASOTA TROPHY & AWARDS INC.	CHK	O/S	\$75.50
35884	01/12/2017	BLUSITE SOLUTIONS OF SOUTHWEST	CHK	CLR	\$70.00
36097	02/24/2017	DMS-FINANCIAL MGMT SERVICES	CHK	O/S	\$67.23
35938	01/12/2017	KEVIN MORRIS	CHK	CLR	\$61.75
35961	01/27/2017	THE SUN	CHK	CLR	\$58.63
35889	01/12/2017	THE SUN	CHK	CLR	\$57.20
35952	01/12/2017	UPS	CHK	CLR	\$54.64
36040	02/09/2017	FLORIDA DEPARTMENT OF STATE	CHK	CLR	\$48.86
35890	01/12/2017	AIRGAS USA, LLC	CHK	CLR	\$46.91
35999	01/27/2017	SUNSHINE STATE ONE CALL OF FL, IN	CHK	CLR	\$36.32
36148	02/24/2017	SUNSHINE STATE ONE CALL OF FL, IN	CHK	O/S	\$36.32
36119	02/24/2017	FLORIDA DEPARTMENT OF STATE	CHK	O/S	\$33.18
35963	01/27/2017	AIRGAS USA, LLC	CHK	CLR	\$30.36
36101	02/24/2017	AIRGAS USA, LLC	CHK	O/S	\$30.36
35951	01/12/2017	TRACTOR SUPPLY COMPANY CREDIT	CHK	CLR	\$28.14
35968	01/27/2017	MONRO MUFFLER BRAKE, INC.	CHK	CLR	\$27.48
36004	01/27/2017	THE SHIPPING POST	CHK	CLR	\$25.97
36002	01/27/2017	Rob Wilson	CHK	O/S	\$24.84

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**CHECK REGISTER: JANUARY & FEBRUARY 2017**  
**By Amount Largest to Smallest**

**Bank Code:** PUBLIC FUNDS INTEREST CHECKING (PNC)

Document Number	Date	Payee Name / Description	Type	Status	Amount
35916	01/12/2017	BILL'S BOTTLED WATER SERVICE	CHK	CLR	\$16.50
36008	01/27/2017	TERRI GREEN	CHK	O/S	\$13.91
35962	01/27/2017	FEDERAL EXPRESS	CHK	CLR	\$11.84
36048	02/09/2017	BILL'S BOTTLED WATER SERVICE	CHK	CLR	\$11.25
35959	01/27/2017	ALLIED UNIVERSAL CORP.	CHK	VOID	\$0.00
35940	01/12/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00
35995	01/27/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00
35995	01/27/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00
35997	01/27/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00
36078	02/09/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00
36079	02/09/2017	C & S CHEMICALS INC.	CHK	VOID	\$0.00
				<b>Check Total</b>	<b>\$2,709,377.98</b>

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**CHECK REGISTER: JANUARY & FEBRUARY 2017**

**Bank Code: CONSTRUCTION CHECKING (PNC)**

Document Number	Date	Payee Name / Description	Type	Status	Amount
2723	01/27/2017	KING ENGINEERING ASSOCIATES INC	CHK	AP	\$6,084.90
2724	02/10/2017	KING ENGINEERING ASSOCIATES INC	CHK	AP	\$1,757.76
				<b>Check Total</b>	<b>\$7,842.66</b>

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**

**CHECK REGISTER: JANUARY & FEBRUARY 2017**

**Alphabetically by Vendor**

**Bank Code: CONSTRUCTION CHECKING (PNC)**

Document Number	Date	Payee Name / Description	Type	Status	Amount
2723	01/27/2017	KING ENGINEERING ASSOCIATES INC	CHK	AP	\$6,084.90
2724	02/10/2017	KING ENGINEERING ASSOCIATES INC	CHK	AP	\$1,757.76
				<b>Check Total</b>	<b>\$7,842.66</b>

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**

**CHECK REGISTER: JANUARY & FEBRUARY 2017**

**By Amount Largest to Smallest**

**Bank Code: CONSTRUCTION CHECKING (PNC)**

Document Number	Date	Payee Name / Description	Type	Status	Amount
2723	01/27/2017	KING ENGINEERING ASSOCIATES INC	CHK	AP	\$6,084.90
2724	02/10/2017	KING ENGINEERING ASSOCIATES INC	CHK	AP	\$1,757.76
				<b>Check Total</b>	<b>\$7,842.66</b>

***PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
BOARD OF DIRECTORS MEETING  
April 12, 2017***

**ROUTINE STATUS REPORTS  
ITEM 3**

**Regional Integrated Loop System  
Phase 1 Interconnect [U.S. 17 to Punta Gorda]**

## Project Status Report

**Project:** Regional Integrated Loop System Phase 1 Interconnect Pipeline Project  
[U.S. 17 to Punta Gorda]

**Date:** April 12, 2017

**Prepared by:** Ford Ritz, P.E., Project Engineer

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The following information summarizes the project description and current status. (see attached conceptual pipe route map).

### Project Description

The Phase 1 Interconnect will provide a plant-to-plant connection between the Peace River Facility in DeSoto County with the Punta Gorda Shell Creek Water Treatment Plant in Charlotte County. The project will support the City in meeting drinking water quality requirements through blending with regional supply, provide back-up water supply to the DeSoto County system, and improve regional and local water supply system reliability. The Phase 1 Pipeline is bi-directional and is envisioned to delivery 4-million gallons per day (mgd) of regional finished water to the City's Shell Creek Facility and to receive 2-mgd from the Shell Creek Facility. The estimated project cost is \$12-million. The design and construction schedule is estimated to be 30 to 36 months from start to finish.

The project scope includes:

- Approximately 6.3 miles of a minimum of 24-inch diameter pipeline
- A subaqueous crossing of Shell Creek by Horizontal Directional Drilling (HDD)
- Metering/SCADA and telemetry at connection facilities
- Need for pumping and storage facilities (evaluated during design)
- Conceptual route(s) (evaluated during design).

In 2006 the Authority completed a Regional Integrated Loop System Feasibility/Routing Study for proposed Regional Transmission Mains including the Phase 1 Interconnect. As currently envisioned, the Phase 1 Interconnect begins at the terminus of the regional system's DeSoto Regional Transmission Main on U.S. 17 at the DeSoto/Charlotte County line, continues south along U.S. 17, east and south along Washington Loop Road, south along Three Rivers Road adjacent to an abandoned railroad corridor, and across Shell Creek to the City's Shell Creek WTP. Refer to the attached conceptual route map.



## Current status

The Phase 1 Interconnect was Board approved for Design by King Engineering Associates, Inc. (King) on February 25, 2016. The Notice-to-Proceed for Work Order 1- Preliminary Design Services/Basis of Design Report was issued to King on March 5, 2016, subsequent to execution of the SWFWMD Cooperative Funding Agreement. The Project Kick-Off Meeting was held on March 15, 2016.

At the December 7, 2016 Board Meeting, King presented the Phase 1 Interconnect, final draft Basis of Design Report (BODR). Three routes were assessed by King during preliminary engineering. King recommended Route 2, which follows the original Phase 1 Interconnect Route from the 2006 60%-complete Phase 1 Design Build Project, with the following exceptions:

- New Pipeline is not in or on the Hendrickson Dam embankments
- As currently proposed, the Pipeline crosses Shell Creek by Horizontal Directional Drilling (HDD) downstream of the Hendrickson Dam, upland to upland.

The Engineer's Opinion of Probable (total) Cost for the Phase 1 Interconnect is \$11,960,000. The Phase 1 Interconnect is scheduled to be operational by February 2020. In November the final draft of the BODR was submitted to Charlotte, Desoto, Sarasota and Manatee Counties, the Cities of North Port, and Punta Gorda, the South West Florida Water Management District (SWFWMD) and the Florida Department of Environmental Protection (FDEP) for feedback. Review questions and comments were forwarded to King in December 2016 and January 2017 and incorporated into the Final Basis of Design Report. Record copies of the Final Basis of Design Report were provided to the above in January 2017.

In January 2017 King submitted Work Order 2 'Design, Permitting and Bidding Services' for the Phase 1 Interconnect. Work Order No. 2 includes survey, geotechnical services, design, permitting, property acquisition services, and bid phase services. These project activities cover a 23-month schedule with design and permitting efforts completed in the fall of 2018 allowing selection of a contractor for construction in January 2019.

King's Work Order 2 'Design, Permitting and Bidding Services' was approved at the February 1, 2017 Board Meeting. King was issued Notice-to-Proceed for Work Order 2 on February 10<sup>th</sup>. A Design Kick-Off meeting was held with King on February 15, 2017. The project design drawings are approximately 30% +/- complete. Currently the project is on budget and schedule.

## **Project History Briefing**

**Project:** Regional Integrated Loop System Phase 1 Interconnect Pipeline Project  
[U.S. 17 to Punta Gorda]

**Date:** April 12, 2017

**Prepared by:** Ford Ritz, P.E., Project Engineer

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The following information summarizes the historical milestones and events of the Regional Integrated Loop System Phase 1 Interconnect.

- July 24, 2015 The Authority Advertised for Consultant Statement of Qualifications (SOQs) for engineering design and construction management services for the Phase 1 Regional Interconnect Pipeline Project.
- August 25, 2015 Deadline for consultant SOQ package. Five SOQ packages were timely received by the following:
  - Atkins North America, Inc.
  - Johnson Engineering, Inc.
  - Kimley Horn and Associates, Inc.
  - King Engineering Associates, Inc.
  - TKW Consulting Engineers, Inc.
- August 28, 2015 Electronic Copies of the SOQ Packages were distributed to member and customer utility directors and the SWFWMD for feedback or comments. Feedback was requested by September 14, 2015.
- Sept. 22, 2015 A short list of three Consultants were listed in alphabetical order and posted on the Authority Web Site.
  - Atkins North America, Inc.
  - King Engineering Associates, Inc.
  - TKW Consulting Engineers, Inc.
- October 7, 2015 Short listed consultants gave their presentations and were interviewed by the Authority Board. King Engineering Associates, Inc. was selected by the Board for the Phase 1 Project.
- December 2, 2015 The Authority Board approved the Interlocal Agreement for the

Phase 1 Regional Interconnect Between the PRMRWSA and the City of Punta Gorda.

- December 2, 2015 The Consent Request for approval of the Authority/Punta Gorda Phase 1 Interconnect Project was submitted to the Charlotte County Board of County Commissioners.
- February 23, 2016 Charlotte County Board of County Commissioners granted Consent for the Phase 1 Interconnect Project.
- February 25, 2016 The Authority Board (Special Board Meeting) Approved the following:
  - The Interlocal Agreement between PRMRWSA and DeSoto County for the Phase 1 Regional Interconnect.
  - The Cooperative Funding Agreement between the SWFWMD and PRMRWSA for the Phase 1 Regional Interconnect for a total of \$12 million. Subdivided into Punta Gorda payment of \$2 million, State Appropriations of \$4 million and SWFWMD Cooperative Funding of \$6 million.
  - The Contract for Professional Engineering Services for Design and Construction Management/Inspection for the Phase 1 Regional Interconnect with King Engineering Associates, Inc. King).
  - Work Order No. 1 for Preliminary Design Services of Phase 1 with King in the amount of \$278,760. The effort for completion of Work Order 1 is 180- calendar days from the Notice-to-Proceed date.
- March 5, 2016 Pending execution of the Cooperative Funding Agreement between the SWFWMD and PRMRWSA for the Phase 1 Regional Interconnect the Notice-to-Proceed was issued to King for Work Order 1, Preliminary Design Services.
- March 15, 2016 The Phase 1 Interconnect kickoff meeting was held at the Peace River Facility. The meeting was attended by Authority staff, SWFWMD, King and the City of Punta Gorda.
- April/May 2016 On April 18, 2016, a Coordination Meeting was held with Florida Power and Light, regarding Easements/ROW on potential project Routes. The meeting was attended by King, Authority, and FPL.

On April 28, 2016, a Project Progress Meeting held. The meeting was attended by the Desoto County, SWFWMD, King and Authority staff. Items discussed included:

1. Status of Preliminary Engineering Effort
2. Project Metering and SCADA requirements
3. Operations of Project Prairie by Desoto County
4. Status of Route Evaluations
5. Schedule for BODR

On May 10, 2016, a Project Progress meeting was held with the Desoto County at the South Booster Station/Project Prairie site. The meeting was attended by Desoto County, King, and Authority staff. The group toured the site including the pump building, yard piping routes, and meter assemblies. Desoto County described how water flow is control at the Booster Station. Phase 1 yard piping, meters and telemetry alternatives as well as potential site locations for new meter assemblies were discussed.

Also on May 10, 2016 a Project Progress meeting was held with Punta Gorda at the Shell Creek Water Treatment Plant. The meeting was attended by Punta Gorda, King and Authority staff. Phase 1 connection points at the Plant, metering, and telemetry were discussed. Coordination between the Phase 1 and the City's RO Plant construction schedules were also discussed. The group toured the Shell Creek reservoir and dam. King explained alternate construction methods for crossing Shell Creek that are being evaluated. The City plans to implement and operate Phase 1 flow control set points similar to the current Phase 1A flow control scheme.

- June/July 2016

On June 23, 2016, a Project Progress Meeting was held. The meeting was attended by the City of Punta Gorda, Desoto County, SWFWMD, King and Authority staff. Items discussed included:

1. Status of Preliminary Engineering Effort
2. Pipeline Hydraulics, including City, and County demands and delivery points. An interim connection at Shell Creek was discussed since the Phase 1 Interconnect is scheduled to be completed prior to the Shell Creek RO Facility.
3. Status of Route Evaluations; discussions focused on Phase 1 Interconnect Routes evaluated in the 2006 Routing Study (4-Routes) and a new Route 5, per King.
4. Discussions/concerns regarding the Hendrickson Dam embankments, including embankment geotechnical issues that occurred during the 2009 Dam Improvements Project.
5. Pros and cons for pipe crossing methods/locations @ Shell Creek.
6. Land Requirements for the new Route 5 (west of the Hendrickson Dam) adjacent to the FPL ROW.
7. Next period King will complete the Route Evaluation which is

includes re-evaluation of 4-routes from the 2006 Regional Integrated Loop System Feasibility/Routing Study and Route-5 per King.

8. A Public Meeting for the Phase 1 Interconnect will be schedule in early August.
9. Development of the Basis of Design Report by King is on schedule and on budget.

- **August/Sept. 2016** On August 11, 2016, a Project Information Meeting was held at the Laishley Park Municipal Marina in Punta Gorda from 6:00pm to 8:00pm. In addition to private citizens, the meeting was attended by the City of Punta Gorda, Charlotte County, SWFWMD, King and Authority staff. Three potential routes, Route 1, Route 2 and Route 5, were shown on poster boards and discussed with attendees. Private citizens were provided with comment cards and asked to provide a preference ranking of the routes.

Poster boards regarding, how the Phase 1 pipeline fits into the Authority's Regional Vision for transmission mains to interconnect water treatment plants, project goals, funding sources, construction methods for crossing Shell Creek and Schedule were also shown and discussed with attendees.

The Project Information Meeting was advertised in local papers and over 250 letters of invitation were sent out to residents and businesses along prospective routes, and to Local and State government officials.

On August 17, 2016 an Operations Coordination Meeting was held with the City of Punta Gorda to discuss operations, meter configurations and instrumentation, residuals and connection points for the Phase 1 Interconnect at the Shell Creek Water Treatment Plant. Much of the meeting focused on interim operation of the Phase 1 Interconnect prior to the City's Reverse Osmosis Treatment Plant coming on line. The meeting was attended by King, City and Authority staff.

On September 15, 2016 an Operations Coordination Meeting was held with Desoto County to review the status of the Phase 1 Project with the County and to discuss future operations, meter configurations, instrumentation and connection points for the Phase 1 Interconnect at the County's Project Prairie facility.

The Authority is currently reviewing draft sections of the Basis of Design report. King Engineering Associates continues to evaluate pipeline routes, and develop preliminary design requirements and Opinion of Probable Construction Costs for each prospective pipeline route.

- Oct./Nov. 2016 On September 26<sup>th</sup> King submitted the preliminary draft of the Basis of Design Report (BODR) to the Authority. The Authority reviewed and forwarded comments to King on October 6<sup>th</sup>. The preliminary draft BODR did not include results for soil borings in Shell Creek at the proposed Route 2 and Route 5 creek crossings as discussed below. Per the preliminary draft BODR, Route 2 is now proposed to cross downstream of the Hendrickson Dam (previously it was going to cross upstream of the Dam). The Route 2 Shell Creek crossing by horizontal directional drill was moved downstream because it is shorter/less expensive.

King's Geotechnical sub-consultant performed soil borings at Routes 2 and 5 in Shell Creek in the vicinity of the horizontal directional drill (HDD) creek crossings. The proposed Route 2 HDD creek crossing is approximately 300-lf downstream of the Hendrickson Dam. The proposed Route 5 HDD creek crossing is about 1.5 miles downstream of the Hendrickson Dam adjacent to a Florida Power and Light power line crossing. The soil borings were performed during the last week of September. The soil boring report was submitted to King October 11<sup>th</sup>. King evaluated the results of the soil borings for inclusion in the final draft of the Phase 1 draft BODR.

On November 1, 2016 a progress meeting was held with King and Authority Staff.

On November 16, 2016 King submitted the final draft of the Phase 1 Interconnect BODR which evaluated 3 route alternatives. Based on preliminary engineering evaluation and analysis Route 2 was recommended.

On November 17, 2016 the final draft of the Phase 1 Interconnect BODR was submitted to Charlotte County, Desoto County, Manatee, and Sarasota Counties as well as the City of North Port, the City of Punta Gorda, SWFWMD and FDEP for feedback. Review comments to the Authority are anticipated to be received by December 17, 2016.

- Dec. 2016 & Jan. 2017

At the December 7, 2016 Board Meeting, King presented the Phase 1 Interconnect, final draft Basis of Design Report (BODR). Three routes were assessed by King during preliminary engineering. King recommended Route 2, which follows the original Phase 1 Interconnect Route from the 2006 60%-complete Phase 1 Design Build Project, with the following exceptions:

- New Pipeline is not in or on the Hendrickson Dam embankments

- As currently proposed, the Pipeline crosses Shell Creek by Horizontal Directional Drilling (HDD) downstream of the Hendrickson Dam, upland to upland.

The Engineer's Opinion of Probable (Total) Cost for the new Phase 1 Pipeline is \$11,960,000. The Phase 1 Pipeline is scheduled to be operational by February 2020. In November the final draft of the BODR was submitted to Charlotte, Desoto, Sarasota and Manatee Counties, the Cities of North Port, and Punta Gorda, the South West Florida Water Management District (SWFWMD) and the Florida Department of Environmental Protection (FDEP) for feedback. Review questions and comments were forwarded to King in December 2016 and January 2017 and incorporated into the Final BODR.

In January 2017 King submitted Work Order 2 'Design, Permitting and Bidding Services' for the Phase 1 Interconnect. Work Order No. 2 to King, includes survey, geotechnical services, design, permitting, property acquisition services, and bidding services. These project activities cover a 23-month schedule with design and permitting efforts completed in the fall of 2018 allowing selection of a contractor for construction in January 2019. The Authority negotiated with King and then forward Work Order No. 2 with King to Desoto, Charlotte, Sarasota and Manatee Counties, the Cities of Punta Gorda and North Port, SWFWMD and FDEP for feedback.

- February & March 2017

The Board approved King's Work Order 2 for 'Design, Permitting and Bid Phase Services at the February 1, 2017 Board Meeting. King was issued the Notice-To-Proceed for Work Order 2 on February 10<sup>th</sup>. A Kickoff Meeting for the Design Phase was held on February 15<sup>th</sup>.

On March 1<sup>st</sup> a meeting was held with King, the Authority and the president of the Three Rivers Home Owners Association to discuss the proposed horizontal direction drilling (HDD) alignment at Shell Creek. The Three Rivers HOA does not have any issues with the proposed HDD alignment passing under the HOA's boat ramp property located on the north side shore of Shell Creek, downstream of the Hendrickson Dam. Additionally, King has been in communication with private property owners along the proposed (HDD) route at Shell Creek where easements may be required.

On March 6<sup>th</sup> an Operations Coordination meeting was held with the City of Punta Gorda at the Shell Creek Facility (SCF). Discussions focused on the Phase 1 Interconnect connection at the SCF, use of proposed pumps in the existing clear well to be dedicated to the Phase

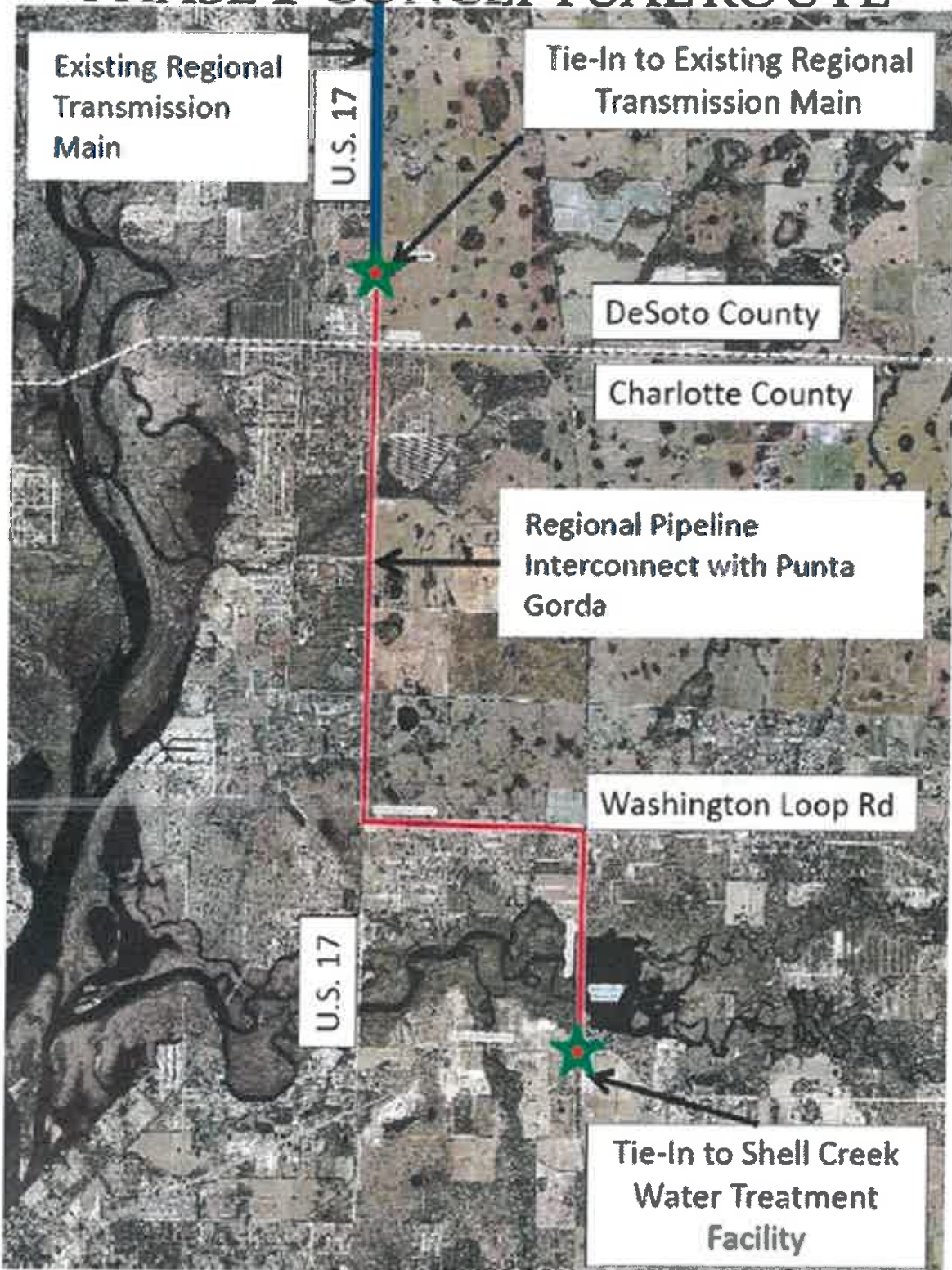
1 Interconnect (for pumping flows south to north), communications from the new meter station to the SCF via fiber, and power for the new meter station.

In March geotechnical boring were performed in and around Shell Creek for the proposed horizontal direction drilling subaqueous crossing of Shell Creek. The dam transect survey for the HDD alignment was also completed. Identification, collection of information and survey of environmental sensitive areas is underway for permitting in the vicinity of Shell Creek.

During this period King has completed the majority of the topo survey of the Phase 1 Interconnect alignment. King provided proposed plan drawings of the alignment to other utility providers along the Phase 1 route to coordinate and identify potential infrastructure conflicts. The Project design drawings are 30% +/- complete. Currently, the Project is on time and on budget.



# PHASE 1 CONCEPTUAL ROUTE



**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**ROUTINE STATUS REPORTS**  
**ITEM 4**

**Regional Integrated Loop System**  
**Phase 3B Interconnect [Preymore Interconnect to Clark Road]**

## Project Status Report

**Project:** Regional Integrated Loop System Phase 3B Interconnect Pipeline Project  
[Preymore to SR 72/Clark Road]

**Date:** April 12, 2017

**Prepared by:** Kevin Morris, PE, BCEE, CPPO, CSEP, CGFM- Science and Technology Officer

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The following information summarizes the project description and current status. (see attached conceptual pipe route map).

### Project Description

The Phase 3B Interconnect will extend the regional loop system within Sarasota County approximately 5 miles further north from the Preymore location near the Municipal Solid Waste Facility to mid-county. The Phase 3B Pipeline will be bi-directional and will interconnect with the regional Phase 3A pipeline to the south and to Sarasota County's system on the north. As originally envisioned, the project included a repump facility at its northern end to boost water pressures for delivery northward, or, when operating in the reverse direction, this pumping facility would boost pressures coming southward.

However, early in the Basis of Design Report effort, working closely in conjunction with County staff, an alternate configuration was developed that ultimately proved viable and will save the region significant capital and operational expense over the long term. The project team analyzed sizing the Phase 3B pipeline along with the County's planned interconnecting water main under various scenarios. The team showed that the Phase 3B pipeline could deliver water to the County's Pump Station No. 5 as well as a future repump facility located another 7 miles further north at the juncture between Phases 3C and 3D without the need for booster pumping at SR 72 (Clark Road). This effectively eliminates one of the repump stations originally envisioned more than 10 years ago as part of the regional integrated loop system.

Rapid growth and development along the boundaries of Manatee and Sarasota Counties has already spurred developer-installation of the Phase 3D pipeline. The developer wanted to install the pipeline coincident with the roadway to avoid the later disruption that would come if the pipeline followed initial development. The Phase 3D pipeline is being interconnected with Manatee County to the north and will also tie in with Sarasota County to the south. The southernmost leg of Phase 3D terminates close to one of the Phase 3C conceptual routes from the 2006 Regional Integrated Loop System Feasibility/Routing Study.

Although the Phase 3C pipeline leg of the regional transmission system is envisioned to follow Phase 3B pipeline leg of the regional transmission system by several years, there is need for the regional repumping facility now in the area where pipeline segments Phase 3D and 3C meet (the intersection of Lorraine and Fruitville Roads). The ability to store, chemically recondition and repump water from this location is important strategically to the region since it represents the

approximate midpoint between the Carlton WTP to the south and the Lake Manatee WTP to the north.

Authority and County staff are conferring with our Water Management District funding partner about relocation of the originally planned Phase 3B Repump facility north to near the location of Fruitville and Lorraine Roads. Discussions regarding commitments to Phase 3D and future Phase 3C pipeline segments are ongoing.

The estimated project cost, including the pump station was \$27-million. The total project schedule, commencing with authorization for Preliminary Engineering in December 2016 was 46 months with final completion of the construction project slated for October 2020.

### Current status

The Phase 3B Interconnect was Board approved for Design by King Engineering Associates, Inc. (King) on December 2, 2015. The Notice-to-Proceed for Work Order 1- Preliminary Design Services/Basis of Design Report was issued to King on February 3, 2016. The Project Kick-Off Meeting was held on February 17, 2016.

At the February 1, 2017 Board Meeting, King presented the Phase 3B Interconnect, draft Basis of Design Report (BODR). Seven routes were assessed by King during preliminary engineering. King recommended Route C, which had the second lowest cost and several strategic advantages over the lowest cost route, Route B. One key advantage of Route C is that it fell entirely on County-owned property and so the uncertainty and cost of an extended land acquisition phase could be avoided. The Authority Board of Directors accepted this routing and the Draft Basis of Design Report. The Engineer's Opinion of Probable (total) Cost for the Phase 3B Interconnect Pipeline is approximately \$16.4 million.

Scoped effort to prepare basis of design information and estimated costs for the pumping station was reallocated towards identifying viable land parcels further north closer to the suitable more location for the future pump station. The cost of the pump station cannot be projected until a conceptual design level of effort has been completed and that work was a part of Work Order No. 2, 'Design, Permitting and Bidding Services' for the Phase 3B Interconnect also approved at this the February 1, 2017 Board Meeting. Work Order No. 2 included survey, geotechnical services, design, permitting, property acquisition services, and bid phase services for the pipeline along recommended Route C. The anticipated schedule for this effort indicates the design effort will be largely completed by the end of calendar year 2017 to be followed by permitting for the bulk of 2018 and then bidding by the end calendar year 2018.

Funding for Design, Permitting and Bidding Services up to \$1,090,391 is being funded by the Board Approved Cooperative Funding Agreement between SWFWMD and PRMRWSA which includes funding from Sarasota County, State Appropriations and SWFWMD.

**Project History Briefing**

**Project:** Phase 3B Regional Interconnect Pipeline Project

**Date:** April 12, 2017

**Prepared by:** Kevin Morris, PE, BCEE, CPPO, CSEP, CGFM- Science and Technology Officer

The following information summarizes the historical milestones and events of the Phase 3B Regional Interconnect Pipeline Project.

- July 24, 2015 The Authority advertised for Consultant SOQ Packages for engineering design and construction management services for the Phase 3B Regional Interconnect Pipeline Project.
- August 5, 2015 The Authority Board of Directors approved the Southwest Florida Water Management District cooperative funding request for the project "Phase 3B Regional Interconnect Pipeline Project for an estimate project cost of \$26,970,000.
- August 25, 2015 Consultant SOQ Packages were due. A total of five packages were timely received from the firms identified in alphabetical order as follows: Atkins North America Inc., Black & Veatch Inc., HDR Engineering Inc., King Engineering Associates Inc. and Stantec Consulting Services Inc.
- August 28, 2015 Distributed electronic copies of the SOQ packages to member and customer Utility Directors for feedback or comments. Feedback requested by September 14, 2015.
- September 22, 2015 Following review of the SOQ packages and in accordance with the Authority's Procurement Policy a short-list of three top candidates was developed and included: HDR Engineering Inc., Inc., King Engineering Associates Inc. and Stantec Consulting Services Inc.
- October 7, 2015 The Authority Board listened to presentations from the shortlisted firms (HDR Engineering Inc., Inc., King Engineering Associates Inc. and Stantec Consulting Services Inc.). The Board ranked the consultants to establish the order-of-preference, with King Engineering Associates Inc. selected as the top-ranked firm.
- December 2, 2015 The Board approved a contract with King Engineering Associates Inc. for Professional Engineering Design and Construction Management/Inspection Services for the Phase 3B Regional Interconnect Project.

- December 2, 2015 The Board approved Work Order No. 1 'Phase 3B Interconnect Preliminary Design Services' for \$397,958 which included \$25,000 of contingency funding with the stipulation that work not be commenced until a letter of funding commitment had been received from Sarasota County for the cost. Work Order No. 1 included evaluation of up to five (5) major pipeline corridor routes between the existing terminus of Phase 3A at 681 northward to Clark Road. This work included efforts to coordinate with multiple Sarasota County Departments for future planning and infrastructure work in this area. The work included modeling of flows and pressures and will result in a recommendation for pipeline diameter, a route, a possible pumping station location and estimated construction cost. This effort was planned to be completed within 270 calendar days.
- January 26, 2016 Sarasota County Board of County Commissioners approved a letter of funding commitment for the entirety of the cost of Work Order No. 1 at \$397,958 should the out-of-cycle funding request to the Water Management District to cover part of Work Order No. 1 be denied.
- January 28, 2016 Authority Board approves out-of-cycle funding request to the Water Management District for the project
- February 3, 2016 Authority staff sends a letter requesting out-of-cycle funding for the project to the Water Management District.
- February 3, 2016 Authority staff issue Notice-to-Proceed to King Engineering Associates Inc. for the project. It is noted that this approximately 2 month's post Board-award of the Contract Work Order No. 1. This delay is considered unavoidable as the Authority Board clearly indicated work should not commence until funding was assured. Authority staff note this delay could not be avoided and will be considered if the work under Work Order No. 1 should run into difficulty meeting its original 270 calendar day schedule for completion.
- February 17, 2016 Project kickoff meeting was conducted at the Sarasota County BOB Building including staff from Sarasota County, King Engineering Associates Inc., Southwest Florida Water Management District and the Authority. A significant amount of planning information was delivered to the team by Sarasota County staff.
- February 25, 2016 Draft of Interlocal Agreement as required by the MWSC for the Phase 3B Regional Interconnect Project between the Authority and

Sarasota County distributed to key County staff for review and comment.

- February 29, 2016 Project meeting conducted with Sarasota County Utilities Water System staff at the Sarasota County BOB Building including staff from Sarasota County, King Engineering Associates Inc. Southwest Florida Water Management District and the Authority. Items discussed at the meeting were County expectations concerning delivery pressure and disaggregation of future water demands. County staff also related their intended operational protocols for the new project and provided feedback on preliminary pipeline routes.
- March 14, 2016 Project meeting conducted with Manatee County staff at the Manatee County Utilities Operation Division facility on west Cortez Road. Participants included staff from Manatee County, King Engineering Associates Inc. Southwest Florida Water Management District and the Authority. Items discussed included location of existing Manatee County water mains near the county line, planning for future water mains and expectations regarding emergency supply interconnection and routine water transfers in large mains that may be needed to keep water mains from becoming stagnant.
- March 25, 2016 Project meeting with Sarasota County Utilities Water, Solid Waste and Stormwater System staff at the Sarasota County BOB Building including staff from Sarasota County, King Engineering Associates Inc. Southwest Florida Water Management District and the Authority. The team discussed constraints in the area of the Sarasota County Landfill and Dona Bay project areas including the alternate landfill access route along Knights Trail Road, planned roadway improvements in the area and the need for the landfill and Dona Bay projects to collaborate on significant earth movement projects over the next several decades and how this might impact some of the pipeline routes.
- April 8, 2016 Project meeting with Sarasota County Utilities, Planning and Transportation Department staff at the Sarasota County BOB Building including staff from Sarasota County, King Engineering Associates Inc., the Southwest Florida Water Management District and the Authority. The group discussed planned roadway developments in the project area over the next several years.

- April 18, 2016 Project meeting with Florida Power and Light (FP&L) including staff from King Engineering Associates Inc. and the Authority at the FP&L Hammock Place Substation Operations Center in Sarasota. The group discussed co-locating water lines within or proximate to existing power transmission corridors for the Phase 3B as well as Phase 1 regional interconnect pipeline projects.
- June 20, 2016 Project meeting with Sarasota County staff including staff from King Engineering Associates Inc., the Authority and SWFWMD staff at Sarasota County BOB building. The group discussed potential pipeline corridors and the project team elicited County input on suitability of corridors north of SR 72 (Clark Road). Although the Phase 3B project does not currently extend northward of Clark road at this time, where Phase 3B gets installed will greatly influence the routing for future Phase 3C anticipated sometime after the year 2022. County staff expressed a preference for routes further east, away from existing development where there are fewer existing encumbrances. Many of the eastward routes under consideration also would likely involve lower land acquisition costs since the County owns much of the land along those potential routes. The Project team also discussed conceptual level costs.
- June 21, 2016 Amendment No. 1 was issued to King Engineering for Work Order No. 1 to fund an effort behind identifying potential parcels for a Phase 3C pump station in the vicinity of Fruitville and Lorraine Roads. Although this pump station will not be constructed as a part of Phase 3B, it was deemed prudent to start the search activity now while vacant, undeveloped lands were still available in that region. This effort will only identify suitably sized parcels; it does not include contacting landowners to assess their willingness to sell not real estate negotiations. This work was funded using \$24,849 of the Owner's Contingency Allowance.
- August 2, 2016 Met with a property owner along one of the potential routes to discuss potential easement acquisition: Roman Catholic Diocese of Venice.
- August 16, 2016 Met with a property owner along one of the potential routes to discuss potential easement acquisition: LT Partners, LLLP.
- August 16, 2016 Met with a property owner along one of the potential routes to discuss potential easement acquisition: Mrs. Hawkins.



- September 6, 2016 Presented summary of potential Phase 3B pipelines routes and discussed selection criteria and weighting factors with Sarasota County staff. At this point all of the environmental assessments have been completed including wetland assessments, protected species reviews, floodplain issues and soils reviews. In addition, all potentially affected private property owners along the routes have been contacted regarding acquisition of easements and that feedback was shared with County staff. King Engineering indicated route selection would be completed within the next 2 weeks and the draft Basis of Design Report was tentatively planned for completion by the end of the month.  
  
Finally, the effort to conceptually lay out a future Phase 3C pump station and identify suitable parcels for acquisition was completed and staff was briefed on those findings and recommendations.
- September 8, 2016 Provided electronic copy of Pump Station Siting Memorandum to County staff for review.
- October 24, 2016 Authority staff reviewed draft chapters of the BODR and provided feedback and comments to King Engineering.
- October 28, 2016 Provided update to Sarasota County staff on status of the project at the County's BOB facility.
- November 8, 2016 King Engineering hand delivered the draft BODR (hardcopies and CDs) to the Authority's Lakewood Ranch office.
- November 9, 2016 Hand delivered the draft BODR report for review and comment to Sarasota County (hardcopy and CD) and in electronic version (CD) only to the following: Charlotte County, Desoto County, Manatee County and the City of North Port.
- November 17, 2016 Transmitted copies of the draft BODR to both of the project's FDEP and SWFWMD Project Managers, respectively for consideration and comment.
- December 7, 2016 Provided status report update to Board of Directors.
- January 12, 2017 Provided draft copy of Work Order No. 2 – Final Design, Permitting and Bid Phase Services for Black & Veatch to the utility directors of the 4 member counties and the city of North Port for their review and comment.
- February 1, 2017 King Engineering and Authority staff deliver a joint presentation to the Authority Board of Directors on the status of the project.

Authority Board of Directors accepted the Draft Basis of Design Report for the Phase 3B Interconnect Pipeline Project inclusive of the selected route, pipe diameter and relocation of the Phase 3B Pump Station northward in the vicinity of Lorraine and Fruitville Roads. Authority Board of Directors also approved Work Order No. 2 – Final Design, Permitting and Bid Phase Services in an amount not-to-exceed \$1,090,391, which included a \$50,000 contingency allowance. This work order includes an effort covering the conceptual design of the pump station that will be appended to the Draft BODR and, in the process, will shift the BODR from Draft to Final status.

- February 9, 2017 Authority staff met in Tampa with the SWFWMD cooperative funding project management team to discuss logistics of the District's upcoming 3<sup>rd</sup> Party Review of the BODR and the Funding Agreement for the project.
- March 10, 2017 Authority and King Engineering project staff met at the Sarasota County Central Solid Waste Disposal Complex with representatives from County Utilities, Solid Waste and Stormwater Management Departments to discuss the project and the need to gain access for survey, geotechnical and ecological assessment teams to access the route to gather information. Alternatives from crossing Dona Bay conveyances were discussed and guidance was provided to the design team by County staff. County staff recommended an slightly alternate route which ran parallel to the recommended route for part of the pipeline that they felt reflected a better option for constructability. County staff gave approval for surveyors to begin work along the portion of the route beginning at Clark Road towards the south.
- March 29, 2017 County staff gave approval for surveyors and other subconsultants to access the full pipeline route to gather data and information.
- March 30, 2017 Authority and King Engineering project staff met at the Sarasota County BOB Building with County Utilities Department staff and their consultant, Carollo Engineers, to discuss the latest pipeline route information and pump station conceptual design effort. The project team shared the latest route mapping data and details regarding metering and control were discussed.

***PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
BOARD OF DIRECTORS MEETING  
April 12, 2017***

**ROUTINE STATUS REPORTS  
ITEM 5**

**Partially Treated Water Aquifer Storage & Recovery Pilot Testing**

## Project Status Report

**Project:** Partially Treated Water Aquifer Storage and Recovery

**Date:** April 12, 2017

**Prepared by:** Mike Coates, P.G., Deputy Director

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### Project Description

The Authority's Aquifer Storage and Recovery (ASR) System includes 21 ASR production wells with a design storage capacity of 6.3 BG. While this system is a critical storage component for the Peace River Facilities, it is operationally expensive. Water in ASR is fully treated twice to drinking water standards; first on injection in accordance with our existing operations permit for ASR; and again on recovery as water recovered from ASR is discharged to the raw water reservoir system because of naturally occurring arsenic picked up during storage in the limestone aquifer. Operationally this makes water from ASR twice as expensive as water from the raw water reservoir system.

Converting to a partially treated (minimal filtration and possibly disinfection prior to injection) ASR system has the potential to offer considerable cost savings, improve ASR recovery efficiency, and may also provide opportunities to obtain credit for over-recharging the Floridan Aquifer in the Southern Water Use Caution Area. The project is expected to involve multiple steps including:

- Modification of the existing ASR permit to allow pilot testing the partially treated ASR concept on two existing ASR production wells.
- Conducting the pilot testing, evaluating results, and re-evaluating costs for the system.
- If results are favorable the ASR system would be re-permitting to enable use of partially treated water for recharging the system.
- New pumping facilities would be constructed adjacent to Reservoir 1 to support ASR recharge.

### Current status

Received permit modification from FDEP authorizing testing on December 14, 2016. The recharge portion of Cycle 1 of this test was initiated on February 9, 2017. During this portion of the test ASR wells S-4 and S-20 were recharged using water directly from Reservoir 1 at an average combined rate of about 2 MGD. An intensive data collection effort is ongoing at nearby monitor and production wells associated with this test. Recharge continued until March 9, 2017 and totaled approximately 60 MG. Wells S-4 and S-20 were then shut in (storage period) for approximately two weeks. That storage period was followed by the recovery phase of Cycle 1, whereby water from the two test wells is pumped at a combined total rate 2 MGD back into Reservoir 1. That portion of the test, including the intensive data collection efforts are ongoing.

## Project History Briefing

**Project:** Partially Treated Water Aquifer Storage and Recovery

**Date:** April 12, 2017

**Prepared by:** Mike Coates, P.G., Deputy Director

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The following information summarizes the historical milestones and key events of the Partially Treated ASR Project.

- October 2015 Executed Work Order 15-02 with CH2M for Partially Treated ASR Desk-Top Study October 9, 2015.
- March 2016 Desk-top study completed March 24, 2016. Recommends pilot testing partially treated concept. If pilot testing is successful, study indicates potential savings of \$334K to \$394K per year for partially treated system compared with current system. Requires new \$7.5M pumping facilities near Reservoir 1 for recharging ASR.
- April 2016 Presentation of partially treated ASR concept to Authority Board April 6, 2016. Recommended scheduling meeting with FDEP in Tallahassee to discuss concept, permit modification and pilot testing. Met with FDEP staff in Tallahassee April 29, 2016 to discuss partially treated water ASR at the Peace River Facility. Recommendation from meeting is to apply for ASR permit modification enabling pilot testing.
- May - July 2016 Began preparing application to modify ASR permit to allow pilot testing of partially treated ASR concept on two wells in Wellfield No. 2.
- August 2016 August 3, 2016 - Submitted request to FDEP for major modification of the Authority's ASR permit and associated Water Quality Criteria Exemption to enable pilot testing of partially treated ASR concept on two wells in Wellfield No. 2.
- September 2016 September 1, 2016 - Received Request for Additional Information (RAI) from FDEP to support the Authority's ASR permit modification request. September 8, 2016 - CH2M prepared and submitted responses to the FDEP's RAI. CH2M preparing Work Order for pilot testing of partially treated ASR concept on two

wells in Wellfield No. 2. September 30, 2016 - Authority received Draft Class V, Group 7 permit from FDEP including the requested changes to enable pilot testing at ASR Wells S-4 and S-20.

- October 2016 Board approved WO 17-01 to CH2M for Pilot Testing at ASR Wellfield 2 (October 5, 2016).
- November 2016 Conducted Public Meeting November 17, 2016 at Peace River Facility for public comment on recently issued draft permit modification for Authority Class V Group 7 ASR system. Site visit by SWFWMD staff November 21, 2016 for review and discuss co-funding application the partially treated ASR Project.
- December 2016 Received notice of permit on December 14, 2016 authorizing pilot testing. Authorized CH2M to begin work on test set-up. Attended meeting with SWFWMD staff in Tampa on December 22<sup>nd</sup> to discuss project co-funding. Low probability for out-of-cycle funding for FY 2016 and 2017 work on this project.
- January 2017 Conducted project safety & coordination meeting with consultant and Authority staff on January 11<sup>th</sup> in preparation for beginning the test. Authority staff collecting background samples from production and monitor wells and reservoir 1. Installation of piping to ASR wells S-4 and S-20 and recharge pump is ongoing.
- February 2017 Installation of piping and pumping equipment was completed and background water quality monitoring was completed the week of February 6<sup>th</sup> and testing (recharge cycle) was initiated on February 9, 2017. An intensive data collection effort in nearby monitor and ASR production wells is ongoing. Recharge rates are averaging approximately 0.7 MGD, and 1.3 MGD into ASR wells S-4 and S-20 respectively.
- March 2017 The recharge portion of this cycle in the testing was completed on March 9, 2017. Total volume of water pumped from Reservoir 1 into S-4 and S-20 was about 60 MG. Storage and recovery portions of the testing are ongoing, as are associated data collection efforts.

**PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY**  
**BOARD OF DIRECTORS MEETING**  
*April 12, 2017*

**ROUTINE STATUS REPORTS**  
**ITEM 6**

**Peace River Facility Water Use Permit Modification/Renewal**

## **Project Status Report**

**Project:** Peace River Facility Water Use Permit Modification/Renewal

**Date:** April 12, 2017

**Prepared by:** Mike Coates, P.G., Deputy Director

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### **Project Description**

The Authority's Peace River Facility relies on water withdrawn from the Peace River, primarily during high flow conditions, to fill off-stream storage and support the drinking water needs of our Customers. The conditions and limits that govern our withdrawals from the river are established in a Water Use Permit (WUP) issued to the Authority by the Southwest Florida Water Management District. The WUP authorizes a "withdrawal schedule" based on flow conditions in the river at three U.S. Geological Survey gauges upstream of the Peace River Facility.

While the current WUP withdrawal schedule supports the existing storage and treatment configuration, and customer contracted quantities, there are multiple future supplies and supply improvements planned at the Peace River site (and adjacent RV Griffin Reserve) that will rely on an increased harvest of water (above currently permitted quantities) from the Peace River. There is available quantity within the Minimum Flows and Levels established by SWFWMD for the Lower Peace River to enable safe harvest of the additional quantities needed to support future capacity increase projects at this site. This additional harvest will require modification of the the Authority's WUP to allow increased maximum withdrawal rates from the river by the Authority. In addition, renewal of the WUP for increased duration (current permit expires in 2037) should also be considered.

### **Current status**

Staff discussed the concept and rational for this WUP modification/renewal with the Authority Board on February 1, 2017. Board direction was for renewal of the permit for the longest duration allowable, and to consider increase in withdrawal rates from the river to the allowable limit in the established MFL.



## **Project History Briefing**

**Project:** Peace River Facility Water Use Permit Modification/Renewal

**Date:** April 12, 2017

**Prepared by:** Mike Coates, P.G., Deputy Director

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The following information summarizes the historical milestones and key events of the Peace River Facility Water Use Permit Modification/Renewal Project.

- February 2017 Staff presentation to the Authority Board February 1, 2017 regarding need to consider increased withdrawals from the Peace River to support future projects and demand, and increase term of the Authority's existing WUP. Board direction was to request longest permit duration allowable, and maximum withdrawal allowable under the current MFL. Preparation for pre-application meeting with SWFWMD to discuss proposal initiated.
- March 2017 Staff and consultants assembling supporting information for withdrawal increase and extended permit term. Pre-application meeting with SWFWMD proposed in early May.

***PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY  
BOARD OF DIRECTORS MEETING  
April 12, 2017***

**ROUTINE STATUS REPORTS  
ITEM 7**

**Peace River Basin Report**

**MEMORANDUM**

**TO:** Board Members and Pat Lehman  
**FROM:** Doug Manson, Laura Donaldson and Paria Shirzadi  
**RE:** Peace River Basin Report  
**DATE:** March 21, 2017

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**U.S. Agri-Chemicals- Bartow Complex**

On February 7, 2017, U.S. Agri-Chemicals (“USAC”) submitted its Plan of Study for Numeric Nutrient Criteria Evaluation for its Bartow Complex. As an adjunct to its October 18, 2016 renewed Industrial Wastewater/National Pollutant Discharge Elimination System Permit for USAC’s Bartow Complex, Florida Department of Environmental Protection (“DEP”) ordered USAC via an Administrative Order (AO-01PM16) to evaluate whether Bear Branch Creek (a tributary of the Peace River), the direct receiving waterbody for outfalls D-001 and D-003, meets the applicable numeric nutrient criteria pursuant to Rule 62-302.531(2)(c), Florida Administrative Code (“F.A.C.”). The Plan of Study states that it was developed to obtain necessary data and information to evaluate the direct receiving water for outfalls D-001 and D-002 (Bear Branch Creek) and to confirm that the waterbody meets the applicable numeric nutrient criteria for streams.

**Mosaic Fertilizer, LLC- South Fort Meade Mine (Wastewater Permit)**

On November 18, 2016, Mosaic Fertilizer, LLC (“Mosaic”) submitted its application



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for renewal of its industrial wastewater permit (FL0037958-019) for its South Fort Meade Mine, located in Polk and Hardee Counties. On January 23, 2017, Mosaic submitted revised D-001 water quality data through December 2016, as requested by DEP. On February 22, 2017, DEP sent a letter to Mosaic stating that its application for its wastewater permit renewal was considered complete as of that date and setting forth an estimated permit decision schedule. The estimated schedule provides that a notice of intent be issued by May 8, 2017 and the permit issued by May 22, 2017.

Mosaic Fertilizer, LLC- South Fort Meade Mine (Water Resource Permit)

On February 14, 2017, DEP issued a letter approving Mosaic's request to modify its water resource permit (Permit No. MMR-076455-037) for its Fort Meade Mine in Hardee County. The modification requested a permit extension of five years and explained that: the construction of the mitigation associated with the two crossings that have been built so far is complete but will need maintenance; and that the construction of the remaining crossings has been delayed but will be needed in the future, thereby necessitating the permit extension request. Therefore, the permit modification request was approved by DEP extending the expiration date to February 15, 2022.

Mosaic Fertilizer, LLC- DeSoto Mine

On December 9, 2016, DEP gave notice of its intent to issue an Environmental Resource Permit ("ERP") (MMR\_331292-001) to Mosaic for phosphate mining and associated activities at its proposed DeSoto Mine in DeSoto County. As part of the proposed project, Mosaic plans to extract phosphate rock reserves from the DeSoto site that will

result in the disturbance of 2935.5 acres of wetlands and other surface waters, and 54,901 linear feet of streams.

On February 21, 2017, Mosaic submitted a request to DEP regarding its ERP File No. MMR-331292-001 and Conceptual Reclamation Plan (“CRP”) File No. MMR-331292-002, to amend its Mitigation Plan for its pending ERP application by reducing the number of acres encumbered by a conservation easement. This revision reduces the functional gain surplus, as measured by the Uniform Mitigation Assessment Methodology (“UMAM”), from 648.9 units of net functional gain to 546.0 units of net functional gain. Attached to Mosaic’s request letter are those portions of the ERP application that Mosaic is amending with the request, as well as suggested corresponding revisions to the proposed ERP conditions, the proposed ERP project summary and notice of intent. Mosaic also attached to its request suggested revisions to the proposed CRP project summary and notice of intent.

Additionally, on February 22, 2017, DEP received Mosaic’s CRP Supplemental Information Document (“SID”) for its ERP application (File No. MMR-331292-001). The SID assesses the sufficiency of Mosaic’s proposed mitigation adequacy as required by Chapter 62-345, F.A.C., and provides the demonstration of financial responsibility required by Section 10.3.7 of the ERP Applicant’s Handbook, Volume I. The SID includes sections addressing mitigation sufficiency, mitigation liability, mitigation protection, mitigation success criteria, monitoring plan and mitigation maintenance and management plan.

The DeSoto Mine is wholly-located in northwest DeSoto County, west of the town of Arcadia. All wetlands and other surface waters within the DeSoto Mine project boundary

are associated with the Horse Creek and its named tributaries and Oak Hill Branch, which is a separate tributary to the Peace River; all Class III waters.

**Mosaic Fertilizer, LLC- Ona, South Pasture Extension and Fort Green Mines**

On February 24, 2017, Mosaic submitted its application and supporting materials for an Environmental Resource Permit (“ERP”) for its Ona and South Pasture Extension Mines. The ERP application requests to permit an operations corridor in Hardee County that will support the infrastructure necessary to transfer and provide primary clay separation to the phosphate ore that will be mined from the western portions of the Ona and South Pasture Extensions Mines to the Four Corners beneficiation plant. The infrastructure components include a new screening station, electrical power lines, a dragline walkpath, matrix, clay, sand tailings and hydraulic water pipelines as well as existing and new clay settling areas. The operations corridor will be located mainly within the Fort Green Mine and portions of the pipeline corridors will be located within the South pasture and Four Corners Mine areas. The application provides that approximately 1.66 acres of constructed but not released herbaceous wetland will be impacted during corridor construction to provide for an adequate dragline walkpath width.

**Mosaic Fertilizer, LLC- Four Corners Mine**

On January 12, 2017, Mosaic submitted its request for a minor permit revision for modifications to the existing clay settling area (“CSA”) F-2D for its Four Corners Mine. The permit revision request explained that in order to facilitate the construction of a utility corridor along the southern side of the CSA, Mosaic plans to replace two existing spillways



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located in the southeastern corner and four high level spillways located in the southwestern corner of F-2D, with two new spillways north of the southwest corner of F-2D. The new spillways will discharge to the existing (northwest) hydraulic channel through a new overflow system into the existing southwest return channel. The south return channel to the east of the new overflow system, which routes the discharge from the existing spillways, will be closed and covered, and the existing spillways will be shuttered or abandoned. DEP's Statement of Basis of the permit revision states that the planned modifications will not affect surface water discharge quality or quantity, nor change any effluent limitations or monitoring requirements as authorized by NPDES Permit No. FL0036412. On February 23 and 24, 2017, a Notice of Permit Revision (Permit No. FL0036412) was published for Mosaic's Four Corners Mine.

#### CC Manatee Development, LLC- Water Use Permit Modification

On February 17, 2017, the Southwest Florida Water Management District ("SWFWMD") received a water use permit modification application (No. 4309.008) from CC Manatee Development, LLC. The application requests an allocation of 1.586 million gallons per day ("gpd") average, which is an increase from the previously permitted quantity of 0.7403 mgd annual average. The water use permit is for agricultural type use in Manatee County, in the Manasota Basin, and is located in the Southern Water Use Caution Area and Most Impacted Area. On March 3, 2017, SWFWMD issued a request for additional information, which included a request for the applicant to provide the method in which the requested new quantities provide a net benefit that improves existing impact to the



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minimum aquifer level by 10% and the appropriate documentation (Net Benefit Supplemental Form, impact analysis reports, etc.).