



Greater  
Pine Island  
Water Association, Inc.

RECEIVED  
APR 18 2014

April 16, 2014

COMMUNITY DEVELOPMENT

Paul O'Connor  
Lee County  
Department of Community Development  
Division of Planning  
P.O. Box 398  
Fort Myers, Fl. 33902-0398

Re: Request for Data - Water Supply Work Plan

Dear Mr. O'Connor,

Attached please find the data you requested. Please contact me should you have any questions.

Cordially,

William J. Thacher  
General Manager  
[wthacher@pineislandwater.com](mailto:wthacher@pineislandwater.com)

attch: requested water supply work plan data

# Greater Pine Island Water Association, Inc.

## Response to Request from Lee County for Data

### 2014 Water Supply Work Plan

- 1) Current population served within the unincorporated area of Lee County.
  - a. 17,400
  
- 2) A map depicting the area your water utility currently serves.
  - a. See Attached
  
- 3) A map depicting your water utilities future service area.
  - a. See Attached
  
- 4) A copy of your current water use permit issued by the South Florida Water Management District. – See Attached
  
- 5) Your current Level of Service standards.
  - a. 250 gal/ERC
  
- 6) Most current population and water demand projection, projected out to 10 years at a minimum.

Population		Water Demand		MG/Year
2014	17,400	2014	322	
2015	17,661	2015	325	
2016	17,926	2016	316	
2017	18,195	2017	320	
2018	18,468	2018	323	
2019	18,745	2019	326	
2020	19,026	2020	329	
2021	19,311	2021	333	
2022	19,601	2022	336	
2023	19,895	2023	339	
2024	20,193	2024	343	
2025	20,496	2025	346	

- 7) A description of any contracts for bulk water purchases or sales with other water utilities.
  - a. None other than an emergency interconnect agreement with the City of Cape Coral; emphasis on “emergency use”.
  
- 8) Description of existing and future (10 year minimum) water sources.
  - a. Current well field consists of five – 750’ (mol) Lower Hawthorn wells that produce on average 700 gallons/minute. Well production capacity on a 24-hour/day basis equals 1,840 million gallons/year. Current population projections indicate no new production wells will be needed for 20+ years.
  
- 9) Any water supply projects planned for the next 10 years. – NO
  
- 10) Treatment methods and losses in WUP.
  - a. Treatment method – Reverse Osmosis
  - b. Treatment loss = 15%
  
- 11) Permitted FDEP capacities of your water treatment facilities.
  - a. 3.2 mgd
  
- 12) Storage facilities.
  - a. R.O. Plant – 2.0 Million Gallons
  - b. Center Pump Station – 3.0 Million Gallons
  - c. Scallop Ave. Pump Station - .750 Million Gallons
  
- 13) Interconnects, Distribution, and Associated Responsibilities.
  - a. Distribution System Estimated at 61 Square Miles
  - b. Emergency Interconnect with the City of Cape Coral (see #7 above)

14) Treatment and Distribution System Losses.

a. Treatment Loss Average 15% (see #10 above)

b. Distribution System Loss

**Distribution System Water Leakage - 12-Month Running Average**

Month/Year	Water Produced (max)	Water Sold (max)	Accounted For Loss	Total of Loss	Percent Monthly Loss <sup>1</sup>
Apr-13	42,488,000	39,339,000	2,232,000	917,000	2.2%
May-13	38,748,000	35,213,000	2,234,000	1,301,000	3.4%
Jun-13	36,037,000	34,013,000	1,713,000	311,000	0.9%
Jul-13	28,510,000	24,103,000	1,827,000	2,580,000	9.0%
Aug-13	29,491,000	25,767,000	3,104,000	620,000	2.1%
Sep-13	27,485,000	24,254,000	1,870,000	1,361,000	5.0%
Oct-13	28,107,000	22,858,000	1,898,000	3,351,000	11.9%
Nov-13	38,054,000	33,367,000	2,662,000	2,025,000	5.3%
Dec-13	38,832,000	34,509,000	2,378,000	1,945,000	5.0%
Jan-14	42,387,000	<b>40,356,000</b>	2,067,000	(36,000)	-0.1%
Feb-14	<b>43,255,000</b>	37,601,000	2,284,000	3,370,000	7.8%
Mar-14	41,466,000	37,017,000	2,185,000	2,264,000	5.5%
<b>Totals</b>	<b>434,860,000</b>	<b>388,397,000</b>	<b>26,454,000</b>	<b>20,009,000</b>	<b>4.8%</b>

15) Outstanding Compliance Losses. – None

Please call should you have questions,

Data Supplied by:

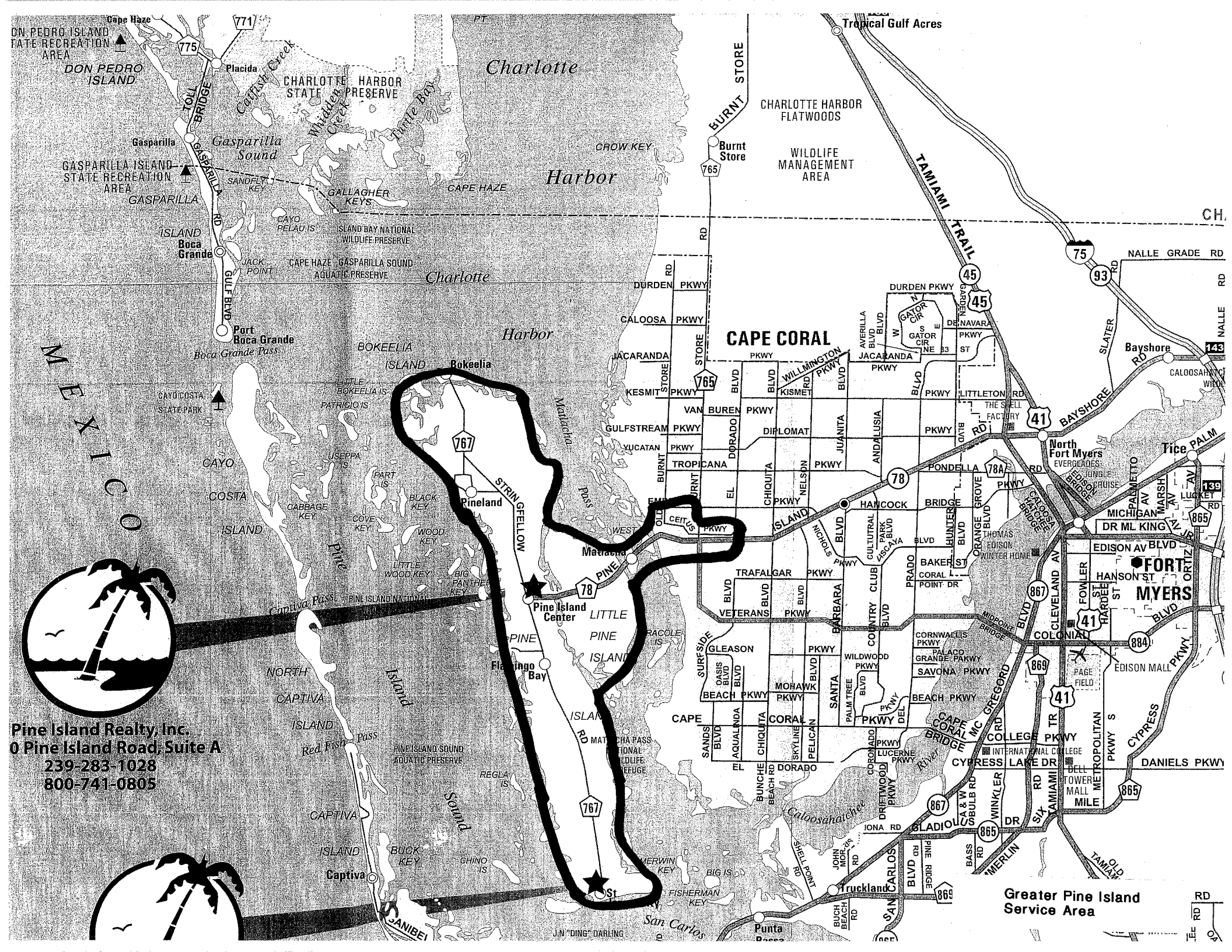
*William J. Thacher*

General Manager

[wthacher@pineislandwater.com](mailto:wthacher@pineislandwater.com)

(239) 283-1071

Bill/bill/Lee County/2014 water supply work plan



DON PEDRO ISLAND STATE RECREATION AREA

GASPARILLA ISLAND STATE RECREATION AREA

ISLAND Boca Grande

Port Boca Grande

CAYO COSTA STATE PARK

Pine Island National Wildlife Refuge

North Fort Myers

Fort Myers

Edison Mall

Edison Av Blvd

Edison Mall Pkwy

Edison Mall

Edison Mall

Edison Mall

Edison Mall

Edison Mall

Edison Mall

Edison Mall

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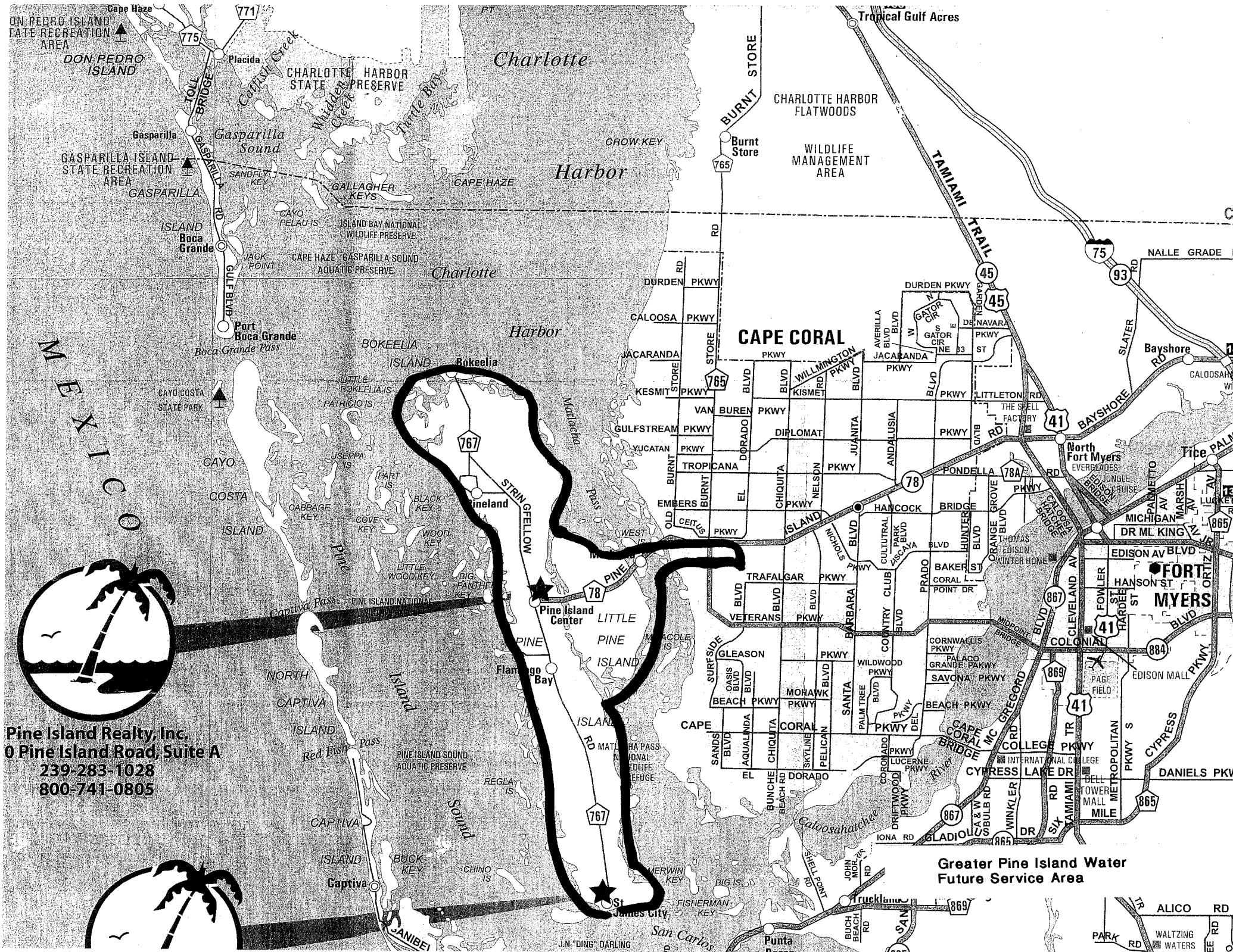
Edison Mall

**Pine Island Realty, Inc.**  
 0 Pine Island Road, Suite A  
 239-283-1028  
 800-741-0805



**Greater Pine Island Service Area**

RD  
 RD  
 RD



**Pine Island Realty, Inc.**  
 0 Pine Island Road, Suite A  
 239-283-1028  
 800-741-0805

**Greater Pine Island Water  
 Future Service Area**



~~ADP 10/2005~~



# SOUTH FLORIDA WATER MANAGEMENT DISTRICT

3301 Gun Club Road, West Palm Beach, Florida 33406 • (561) 686-8800 • FL WATS 1-800-432-2045 • TDD (561) 697-2574  
Mailing Address: P.O. Box 24680, West Palm Beach, FL 33416-4680 • www.sfwmd.gov

CON 24

Permit No. 36-00045-W  
Application No. 050524-9

October 21, 2005

WUP  
THRU  
10/12/2015

GREATER PINE ISLAND WATER ASSOCIATION INC  
(GREATER PINE ISLAND WATER ASSOCIATION RO WELLFIELD)  
5281 PINE ISLAND ROAD  
BOOKEELIA, FL 33922

Dear Permittee:

Enclosed is your Permit as authorized by the Governing Board of the South Florida Water Management District at its meeting on October 12, 2005.

Special Conditions to your Permit require reports to be filed with this District. Please read these Conditions and use the enclosed form(s), as applicable, for your submittal of these required reports.

If you have any questions, please do not hesitate to contact this office.

Sincerely,

Elizabeth Veguilla  
Deputy Clerk  
Environmental Resource Regulation Department

Enclosures

GOVERNING BOARD

Kevin McCarty, *Chair*  
Irela M. Bagué, *Vice-Chair*  
Pamela Brooks-Thomas

Alice J. Carlson  
Michael Collins  
Nicolás J. Gutiérrez, Jr., Esq.

EXECUTIVE OFFICE

Lennart P. Lindahl, P.E.  
Harkley ... Thornton  
Malcolm S. Wade, Jr.

Carol Ann Wehle, *Executive Director*



SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WATER USE PERMIT NO. RE-ISSUE 36-00045-W

( NON - ASSIGNABLE )

FORM #0299  
Rev. 5/93

Date Issued: 12-OCT-2005

Expiration Date: October 12, 2015

Authorizing: THE CONTINUATION OF AN EXISTING USE OF GROUNDWATER FROM THE LOWER HAWTHORN AQUIFER FOR PUBLIC WATER SUPPLY USE WITH AN ANNUAL ALLOCATION OF 889.53 MILLION GALLONS.

Located In: Lee County, S33, 34/T44S/R22E

Issued To: GREATER PINE ISLAND WATER ASSOCIATION INC  
(GREATER PINE ISLAND WATER ASSOCIATI)  
5281 PINE ISLAND ROAD  
BOOKEELIA, FL 33922

This Permit is issued pursuant to Application No. 050524-9, dated May 24, 2005, for the Use of Water as specified above and subject to the Special Conditions set forth below. Permittee agrees to hold and save the South Florida Water Management District and its successors harmless from any and all damages, claims or liabilities which may arise by reason of the construction, maintenance or use of activities authorized by this permit. Said application, including all plan and specifications attached thereto, is by reference made a part hereof.

Upon written notice to the permittee, this permit may be temporarily modified, or restricted under a Declaration of Water Shortage or a Declaration of Emergency due to Water Shortage in accordance with provisions of Chapter 373, Fla. Statutes, and applicable rules and regulations of the South Florida Water Management District.

This Permit may be permanently or temporarily revoked, in whole or in part, for the violation of the conditions of the permit or for the violation of any provision of the Water Resources Act and regulations thereunder.

This Permit does not convey to the permittee any property rights nor any privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation, or requirement affecting the rights of other bodies or agencies.

Limiting Conditions are as follows:

SEE PAGES 2 - 7 OF 7 (22 LIMITING CONDITIONS).

South Florida Water Management  
District, by its Governing Board

On October 12, 2005

By *Elizabeth Veyill*  
Deputy Clerk



LIMITING CONDITIONS

- 1 . This permit shall expire on October 12, 2015.
- 2 . Application for a permit modification may be made at any time.
- 3 . Water use classification:  

Public water supply
- 4 . Source classification is:  

Ground Water from:  
Lower Hawthorn Aquifer
- 5 . Annual allocation shall not exceed 890 MG.  

Maximum monthly allocation shall not exceed 97.0542 MG.
- 6 . Pursuant to Rule 40E-1.6105, F.A.C., Notification of Transfer of Interest in Real Property, within 30 days of any transfer of interest or control of the real property at which any permitted facility, system, consumptive use, or activity is located, the permittee must notify the District, in writing, of the transfer giving the name and address of the new owner or person in control and providing a copy of the instrument effectuating the transfer, as set forth in Rule 40E-1.6107, F.A.C.  

Pursuant to Rule 40E-1.6107 (4), until transfer is approved by the District, the permittee shall be liable for compliance with the permit. The permittee transferring the permit shall remain liable for all actions that are required as well as all violations of the permit which occurred prior to the transfer of the permit.

Failure to comply with this or any other condition of this permit constitutes a violation and pursuant to Rule 40E-1.609, Suspension, Revocation and Modification of Permits, the District may suspend or revoke the permit.

This Permit is issued to:  
Greater Pine Island Water Association  
  
Greater Pine Island Water Association
- 7 . Withdrawal Facilities:  

Ground Water - Existing:

  - 1 - 12" X 737' X 700 GPM Well Cased To 598 Feet
  - 1 - 12" X 739' X 700 GPM Well Cased To 583 Feet
  - 1 - 12" X 770' X 700 GPM Well Cased To 563 Feet
  - 1 - 12" X 783' X 700 GPM Well Cased To 598 Feet

Ground Water - Proposed:

  - 1 - 12" X 770' X 700 GPM Well Cased To 600 Feet
- 8 . Permittee shall mitigate interference with existing legal uses that was caused in whole or in part by the permittee's withdrawals, consistent with the approved mitigation plan. As necessary to offset the interference, mitigation will include pumpage reduction, replacement of

the impacted individual's equipment, relocation of wells, change in withdrawal source, or other means.

Interference to an existing legal use is defined as an impact that occurs under hydrologic conditions equal to or less severe than a 1 in 10 year drought event that results in the:

(1) Inability to withdraw water consistent with provisions of the permit, such as when remedial structural or operational actions not materially authorized by existing permits must be taken to address the interference; or

(2) Change in the quality of water pursuant to primary State Drinking Water Standards to the extent that the water can no longer be used for its authorized purpose, or such change is imminent.

- 9 . Permittee shall mitigate harm to existing off-site land uses caused by the permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the permittee to modify withdrawal rates or mitigate the harm. Harm as determined through reference to the conditions for permit issuance, includes:

(1) Significant reduction in water levels on the property to the extent that the designed function of the water body and related surface water management improvements are damaged, not including aesthetic values. The designed function of a water body is identified in the original permit or other governmental authorization issued for the construction of the water body. In cases where a permit was not required, the designed function shall be determined based on the purpose for the original construction of the water body (e.g. fill for construction, mining, drainage canal, etc.)

(2) Damage to agriculture, including damage resulting from reduction in soil moisture resulting from consumptive use; or

(3) Land collapse or subsidence caused by reduction in water levels associated with consumptive use.

10. Permittee shall mitigate harm to the natural resources caused by the permittee's withdrawals, as determined through reference to the conditions for permit issuance. When harm occurs, or is imminent, the District will require the permittee to modify withdrawal rates or mitigate the harm. Harm, as determined through reference to the conditions for permit issuance includes:

(1) Reduction in ground or surface water levels that results in harmful lateral movement of the fresh water/salt water interface,

(2) Reduction in water levels that harm the hydroperiod of wetlands,

(3) Significant reduction in water levels or hydroperiod in a naturally occurring water body such as a lake or pond,

(4) Harmful movement of contaminants in violation of state water quality standards, or

- (5) Harm to the natural system including damage to habitat for rare or endangered species.
11. If any condition of the permit is violated, the permit shall be subject to review and possible modification, enforcement action, or revocation.
  12. Authorized representatives of the District shall be permitted to enter, inspect, and observe the permitted system to determine compliance with special conditions.
  13. The Permittee is advised that this permit does not relieve any person from the requirement to obtain all necessary federal, state, local and special district authorizations.
  14. The permit does not convey any property right to the Permittee, nor any rights and privileges other than those specified in the Permit and Chapter 40E-2, Florida Administrative Code.
  15. Permittee shall submit all data as required by the implementation schedule for each of the limiting conditions to: S.F.W.M.D., Supervising Hydrogeologist - Post-Permit Compliance, Water Use Regulation Dept. (4320), P.O. Box 24680, West Palm Beach, FL 33416-4680.
  16. In the event of a declared water shortage, water withdrawal reductions will be ordered by the District in accordance with the Water Shortage Plan, Chapter 40E-21, F.A.C. The Permittee is advised that during a water shortage, pumpage reports shall be submitted as required by Chapter 40E-21, F.A.C.
  17. Prior to the use of any proposed water withdrawal facility authorized under this permit, unless otherwise specified, the Permittee shall equip each facility with a District-approved operating water use accounting system and submit a report of calibration to the District, pursuant to Section 4.1, Basis of Review for Water Use Permit Applications.  
  
In addition, the Permittee shall submit a report of recalibration for the water use accounting system for each water withdrawal facility (existing and proposed) authorized under this permit every five years from each previous calibration, continuing at five-year increments.
  18. Monthly withdrawals for each withdrawal facility shall be submitted to the District quarterly. The water accounting method and means of calibration shall be stated on each report.
  19. The Permittee shall notify the District within 30 days of any change in service area boundary. If the Permittee will not serve a new demand within the service area for which the annual allocation was calculated, the annual allocation may then be subject to modification and reduction.
  20. Permittee shall determine unaccounted-for distribution system losses. Losses shall be determined for the entire distribution system on a monthly basis. Permittee shall define the manner in which unaccounted-for losses are calculated. Data collection shall begin within six months of Permit issuance. Loss reporting shall be submitted to the District on a yearly basis from the date of Permit issuance.
  21. Permittee shall maintain an accurate flow meter at the intake of the water treatment plant for the purpose of measuring daily inflow of water.
  22. The Permittee shall continue to submit monitoring data in accordance with the approved water quality monitoring program for this

project. Dissolved chlorides shall be submitted for wells RO-4, RO-5, RO-6, RO-7 and RO-8.

Water levels shall be provided from one of the on-site RO wells (RO-4, RO-5 or RO-6) and from the two off-site RO wells (RO-7 and RO-8)

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