Wellington Water Projects

Reuse Water System

Village of Wellington

December 11, 2015

2016 Florida Senate Water Project Funding

The Florida Senate

Local Funding Initiative Request - Fiscal Year 2016-2017

1. Senate Sponsor: Abruzzo

2. Date of Request: 12/8/2015

3. Project/Program Description:

Wellington Reuse Water System

4. Amount of Request:

Amount Requested for Operations	Amount Requested for Fixed Capital Outlay	Total Amount of Requested State Funds
Click here to enter text.	$300,000	$50,000

5. Total Project Cost (if greater than Total Requested State Funds): $350,000

6. Type, Amount and Percent of Match:

Type	Amount	Percent
Cash	$50,000	14%

7. Was the project previously funded by the State?

Fiscal Year(s)	Amount
Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.

8. Is future-year funding likely to be requested? No

9. Program Performance (if needed, include additional documentation):

a. How will requested funds be spent? Include supporting documentation.

The Village is requesting $300,000.00 for the design and permitting of a pressurized reuse water system. The project would include permitting for one or possibly two 750,000 gallon storage tanks, the design of approximately 2.5 miles of transmission main, two or three booster pump stations, secondary mains and metered devices at the point of delivery. The estimated probable cost of construction for the system is $7.0 million dollars.

b. Identify expected program results and the expected benefit associated from the requested funds.

. The primary purpose of this reuse system would be to provide a pressurized source of irrigation water. Reuse water can reduce ground /surface water usage, reduce the use of fertilizers and minimize deep well injection of treated influent waters. Delivering reuse water to the end user in a pressurized main line eliminates the need for onsite storage. A typical regulation size polo field is 13 acres in size and is permitted to use 62,000 to 100,000 gallons of water per day. The Village of Wellington currently has 57 polo fields within the Equestrian Preserve Area. Providing reuse water to approximately 1/3 of these fields is a commitment by the Village to the sport of polo and the equestrian industry in Wellington.

c. Who will benefit from receipt of State funds?

. The Village of Wellington is proposing to expand the distribution of its reuse water system. This proposed expansion would extend transmission lines into the Equestrian Preserve Area. The intent would be to target the use of reuse water on polo fields, specifically to locations with high concentrations of fields in close proximity of one another. Currently there are two locations within the Village; one location has eight polo fields while the second has 12.

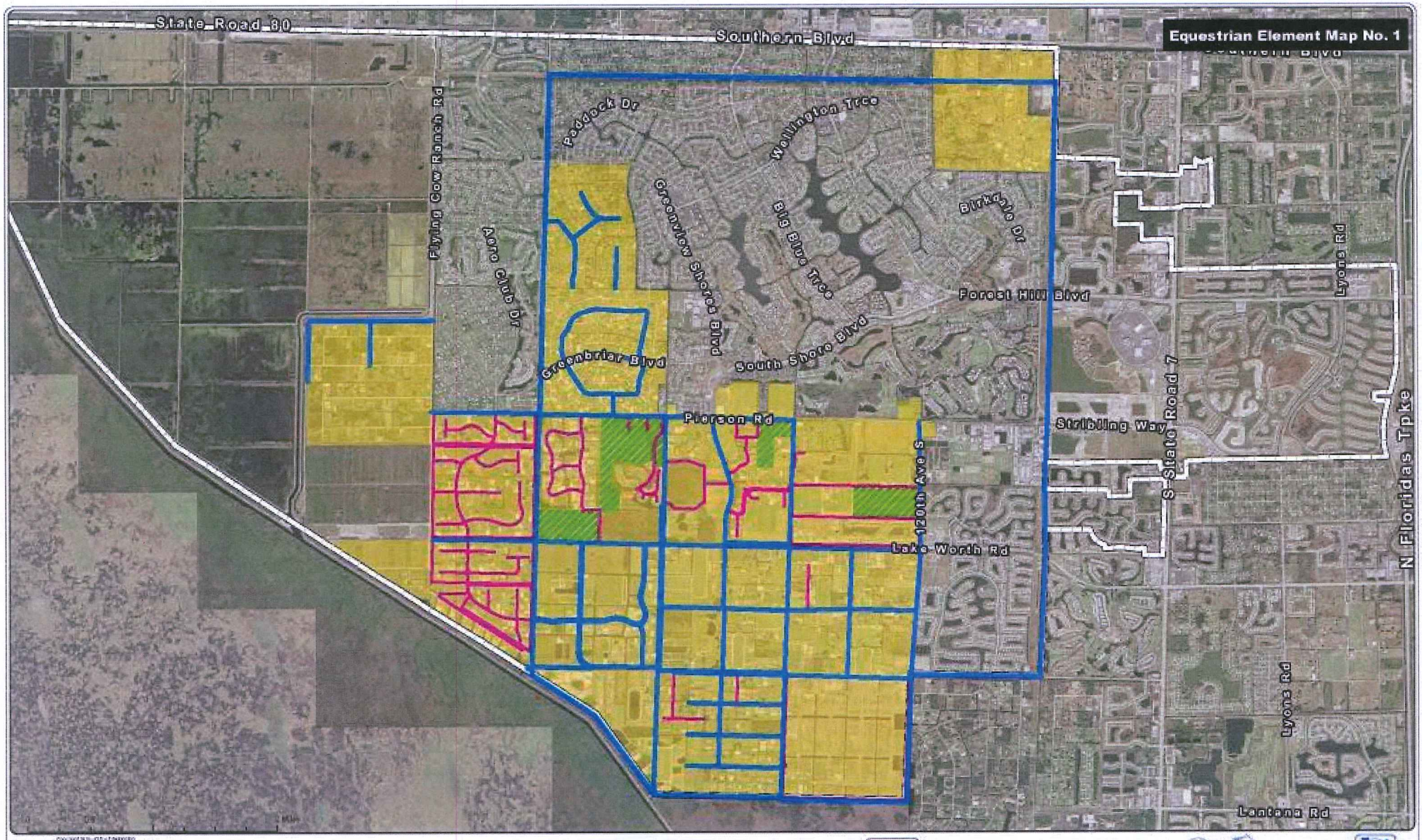
d. What specific measures will be used to document performance data for the project, if it receives funds?

Part of the plan that is developed will establish goals for the project and indentify the most accurate

metrics to provide performance data. The collection of data to assess performance will be coordinated by Village Staff using its consulting engineers as support. Multiple testing periods will provide sufficient technical data on the success of the project including the overall reduction of water use. In addition to providing results associated with the alternative water supply project. The Village will also report the economic benefit of the project including direct and indirect job creation.

10. Requestor Contact information:
    a. Name and Title: Tanya Quickel
    b. Organization: Village of Wellington
    c. E-mail Address: tquickel@wellingtonfl.gov
    d. Phone Number: (561) 791-4113

11 Recipient Contact Information:
    a. Organization: Village of Wellington
    b. Municipality and County: Village of Wellington, Palm Beach County
    c. Organization type (check all that apply):
    - [ ] For-profit Corporation
    - [x] Not-for-profit Corporation
    - [x] 501c3 entity
    - [ ] Other (please specify) Click here to enter text.
    d. Contact Name and Title: Micheal O'Dell
    e. E-mail Address: model@wellingtonfl.gov
    f. Phone Number: (561) 753-2532

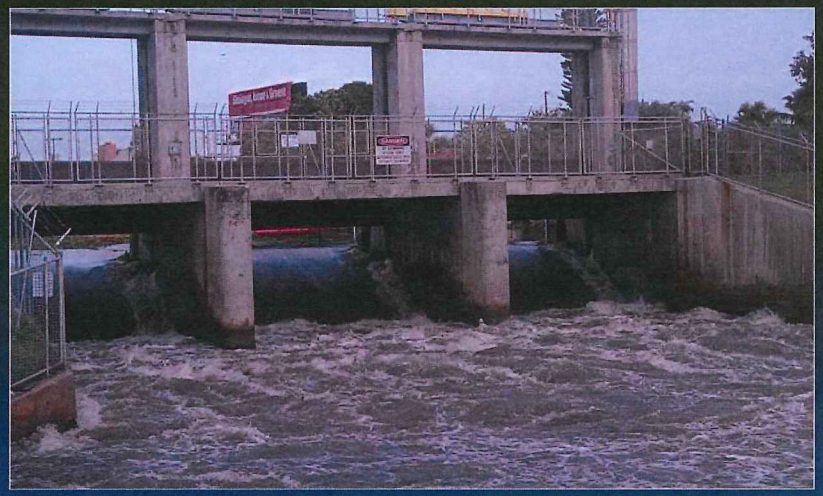

Equestrian Element Map No. 1
State Road 80
Southern Blvd
Flying Cow Ranch Rd
Aero Club Dr
Paddock Dr
Wellington Trce
Greenview Shores Blvd
Big Blue Trce
Birkdale Dr
Forest Hill Blvd
South Shore Blvd
Greenbriar Blvd
Pierson Rd
120th Ave S
Lake Worth Rd
Stribling Way
S State Road 7
Lyons Rd
N Floridas Tpke
Lantana Rd
Private Trails
Public Trails
Major Equine Destination
Equestrian Preserve Area
Wellington
Adopted by
Ordinance 2012-07
Date: 11/16/2010
WELLINGTON
Equestrian Trails Master Plan

C-51 Reservoir

- Proposed
- Located in western Palm Beach County
- 75,000 ac/ft of storage
- Capture and store excess surface water from C-51 basin
- Increased water storage and delivery to help benefit South Florida's regional water supplies
- Reduce harmful discharges to the Lake Worth Lagoon

C-51 Reservoir
Summary of Benefits

- Regionally significant project with multiple public purposes
  - Beneficial use of water lost to tide
    - Decrease in harmful fresh water releases to Lake Worth Lagoon
    - Long-term & cost-effective Alternative Water Supply
  - Potential flood relief for western Palm Beach County
  - Sea level rise & saltwater intrusion benefits
- Location and geology
  - Cross roads
  - Extensive canal infrastructure & conveyance capabilities
- Stakeholder interest and support



C-51 Reservoir
Utility Needs

- Handful of utilities that have immediate needs
- Some utilities have stranded infrastructure capacity
- Current limitations on increased withdrawals that affect the Everglades & regional system could be offset by new source of water
- Utilities seeking sustainable and reasonably priced alternatives for future water supply