

SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study
Stakeholder Meeting Minutes
FPID No. 432644-1-32-01 - D1 DW Drainage

Location: SFWMD Okeechobee Service Center, Okeechobee
Date: July 31, 2014
Time 10:30 am

The purpose of the meeting is to introduce the SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study as an investigation being undertaken by the FDOT District One as a part of the SR 710 new alignment project in Okeechobee.

Attendees: See attached Sign-In Sheet

1. Mr. Brent Setchell gave an introduction on the SR 710 Feasibility Study.
2. Mr. Greg Seidel gave a brief project history explaining how the SR 710 Feasibility Study has progressed to this point.
3. Mr. Greg Seidel introduced the regional pond alternative that is to be constructed by the FDOT for the SR 710. This option would incorporate offsite areas associated with Lower Taylor Creek.
 - a. Representatives from Okeechobee County confirmed the airport ditch is owned by the County from Taylor Creek up to airport property.
 - b. Mr. Setchell voiced his concern about conveying water from the airport ditch to the regional pond. He mentioned the preferred option on behalf of the FDOT would be to provide the required 1-inch of treatment for the SR 710 roadway and demonstrate that the nutrient removal shows a net benefit to the community.
 - c. Mr. Seidel mentioned that a lower treatment depth could be provided. He also indicated that a control structure could be located at Taylor Creek and securing flood rights from the property owners could be an option.
 - d. Mr. Setchell explained the SR 710 Regional Pond approach in that Basins 1 and 2 would be treated by the Regional Pond, Basin 3 and a portion of Basin 4 would pre-treat via the existing pond and that the remaining runoff would discharge directly to the L-63N Canal.
4. Ms. Janet Hearn introduced the Stormwater Treatment Area (STA) alternatives which would require interagency cooperation and be hydraulically connected to the L63-N canal and Upper Taylor Creek.
 - a. Ms. Hearn said that for planning purposes a 100-acre STA is being evaluated. This is comparable to the Taylor Creek STA which has a treatment area of 118 acres. A 100 acre STA could remove about 1,500 to 1,600 kg of TP per year. An overview of three potential locations for a 100 acre STA within the Hamrick property was presented. These three sites were selected to avoid wetlands.

- b. The Lake Okeechobee TMDL requires an in-lake concentration of 40 parts per billion (ppb) TP.
 - c. FDEP added that the existing Taylor Creek STA provides approximately 1520 kg of removal.
 - d. The STA 2 option would require some rehabilitation of the existing wetland in order to retain runoff from the surrounding property. This would provide additional storage and remove approximately 180 kg TP per year without additional flow from the L-63N Canal or Upper Taylor Creek.
 - e. The STA 2 option could provide up to 1000 kg of removal if inflow was augmented with flow from L-63N Canal.
 - f. Mr. Morris Crady asked if a combination of STA 1 and STA 2 would be possible in order to still use the property (i.e. for walking trails) in the winter. Mr. Seidel responded by saying the final STA choice is not part of the feasibility study and would be coordinated under final design.
 - g. Mr. Setchell liked the fact that the STA 2 option would provide some treatment and attenuation. However, he expressed some concern for the STA 2 option since the restored wetlands would be limited on the treatment volume depth (storage) provided. Would this option still require a control structure and how would the western bank of Lower Taylor Creek be affected?
 - h. If an STA option is chosen, FDOT would still need to obtain fill for the SR 710 project and this could be coordinated through agreements.
 - i. Mr. Hamrick asked if an STA option would impact ranch operations. Ms. Bonnie Wolff Pelaez confirmed that the BMAP manual does not restrict cattle from the wetlands.
 - j. Mr. Hamrick mentioned that the wetland portion of his property is the emotional piece, and the upland portion of his property is the economic piece.
5. Mr. Seidel mentioned that if an STA option was selected, FDOT would not be taking the lead on this design and this would most likely fall to the FDEP or SFWMD.
6. Mr. Jim Threewits reiterated his concerns with ponds adjacent to the right-of-way. The County has requested from FDOT that the new SR 710 alignment be a main corridor to attract development. The County wants this gateway to be pretty and attractive for development and does not want unattractive ponds or ponds along the roadway frontage. Mr. Threewits feels this is a chance to do something good and doesn't want to miss out and added that this is a very valuable piece of the land to the county.
- a. Mr. Setchell responded by saying that FDOT is evaluating the need for pond fencing. FDOT is open to providing drainage easements for property owners to provide pond maintenance.
 - b. Mr. Setchell stated that FDOT does not want to move ponds away from the right-of-way due to the hydraulics and increase in cost.
7. Mr. Seidel commented that the current schedule calls for a decision to be reached by the end of the year.
- a. Ms. Amy Setchell responded that the draft Feasibility report is due Sept. 22nd with the final report due Oct. 22nd.

- b. The next step is to review the information presented today individually with the stakeholders and obtain feedback as necessary.
- c. Final calculations need to be performed.

End of Minutes

- c. Attendees
Carl Spirio, P.E., FDOT Drainage
Alfredo Rodriguez, P.E., Wantman

SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study
Stakeholder Meeting
Sign-In Sheet
FPID No. 432644-1-32-01 - D1 DW Drainage

Location: SFWMD Okeechobee Service Center Auditorium
 3800 NW 16th Boulevard, Suite A, Okeechobee, FL 34972
 Date: July 31, 2014
 Time: 10:30 am

NAME	FIRM/AGENCY	OFFICE / RESPONSIBILITY	EMAIL ADDRESS	Initials
Carlton Spirio	FDOT	Drainage	Carlton.Spirio@dot.state.fl.us	
Brent Setchell	FDOT	Permitting	Brent.Setchell@dot.state.fl.us	BS
Amy Setchell	FDOT	PM	Amy.Setchell@dot.state.fl.us	AS
Kevin Inlge	FDOT		Kevin.Inlge@dot.state.fl.us	KSI
Jeffrey Mednick	FDOT		Jeffrey.Mednick@dot.state.fl.us	JLM
Michael Hamrick	Property Owner	Hamrick & Sons	MHamrick@manateelegal.com	MH
Morris Crady	Lucido & Assoc.	Hamrick & Sons	mcrady@lucidodesign.com	MRC
Maryann Hamrick	Property Owner	Hamrick & Sons	Annie4UF@aol.com	mah
Regina Hamrick	Property Owner	Hamrick & Sons		
Gregory Seidel	The Balmoral Group	Project Drainage Engineer	gseidel@balmoralgroup.us	GS
Jennifer Nunn	The Balmoral Group	Project Drainage Engineer	jnunn@balmoralgroup.us	JN
Janet Hearn	ATM	STA Designer	jhearn@appliedtm.com	JH
Henri Belrose	Wantman Group	Consultant PM	Henri.belrose@wantmangroup.com	
Alfredo Rodriguez	Wantman Group	Consultant Asst. PM	Alfredo.rodriguez@wantmangroup.com	AR
Kathy Scott	Okeechobee Co.	Kathy Airport/HDC	kscott@co.okeechobee.fl.us	KS
Lee Evett	Okeechobee Co.		levett@co.okeechobee.fl.us	LE
Jim Threewits	Okeechobee Co.	Admstr	jthreewits@co.okeechobee.fl.us	JT
Kelly Baney	Okeechobee Co.		kbaney@co.okeechobee.fl.us	
Katie Hallas	FDEP	PHONE	Katie.Hallas@dep.state.fl.us	
Elizabeth Alvi	FDEP	PHONE	Elizabeth.Alvi@dep.state.fl.us	
Jim Jeffords	USACE		jim.w.jeffords@usace.army.mil	
David Allen	City of Okeechobee		dallen@cityofokeechobee.com	
Lesley Bertolotti	SFWMD		lbortolo@sfwmd.gov	
Bonnie Wolff Pelaez	FDACS		Bonnie.WolffPelaez@freshfromflorida.com	
Regina Hamrick				

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Stakeholder Meeting
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[illegible]

DRAFT

Legend

- Proposed 710 R/W
- Parcel of Interest
- Parcel Line
- Property Owned by Hamrick & Sons

S-192

L 63-N CANAL

**Hamrick Property
135.6Ac**

LOWER TAYLOR CREEK

AREA AVAILABLE
FOR POTENTIAL
REGIONAL FACILITY

**Hamrick Property
580.7Ac**

**Hamrick Property
228.8Ac**

Proposed SR 710

Service Layer Credits: Source: Esri,
DigitalGlobe, GeoEye, i-cubed, Earthstar
Geographics, CNES/Airbus DS, USDA,
USGS, AEX, Getmapping, Aerogrid, IGN, IGP,

0 0.125 0.25
Miles

FIG 1 - LOCATION MAP
SR 710 Regional Facility
Conceptual Analysis

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Legend

Elevation (ft NAVD)

28 - 29	22 - 23	15 - 16
27 - 28	21 - 22	14 - 15
26 - 27	20 - 21	13 - 14
25 - 26	19 - 20	12 - 13
24 - 25	18 - 19	11 - 12
23 - 24	17 - 18	10 - 11
	16 - 17	less than 10

S-192

L 63-N CANAL

LOWER TAYLOR CREEK

**AREA AVAILABLE
FOR POTENTIAL
REGIONAL FACILITY**

Proposed SR 710

Legend

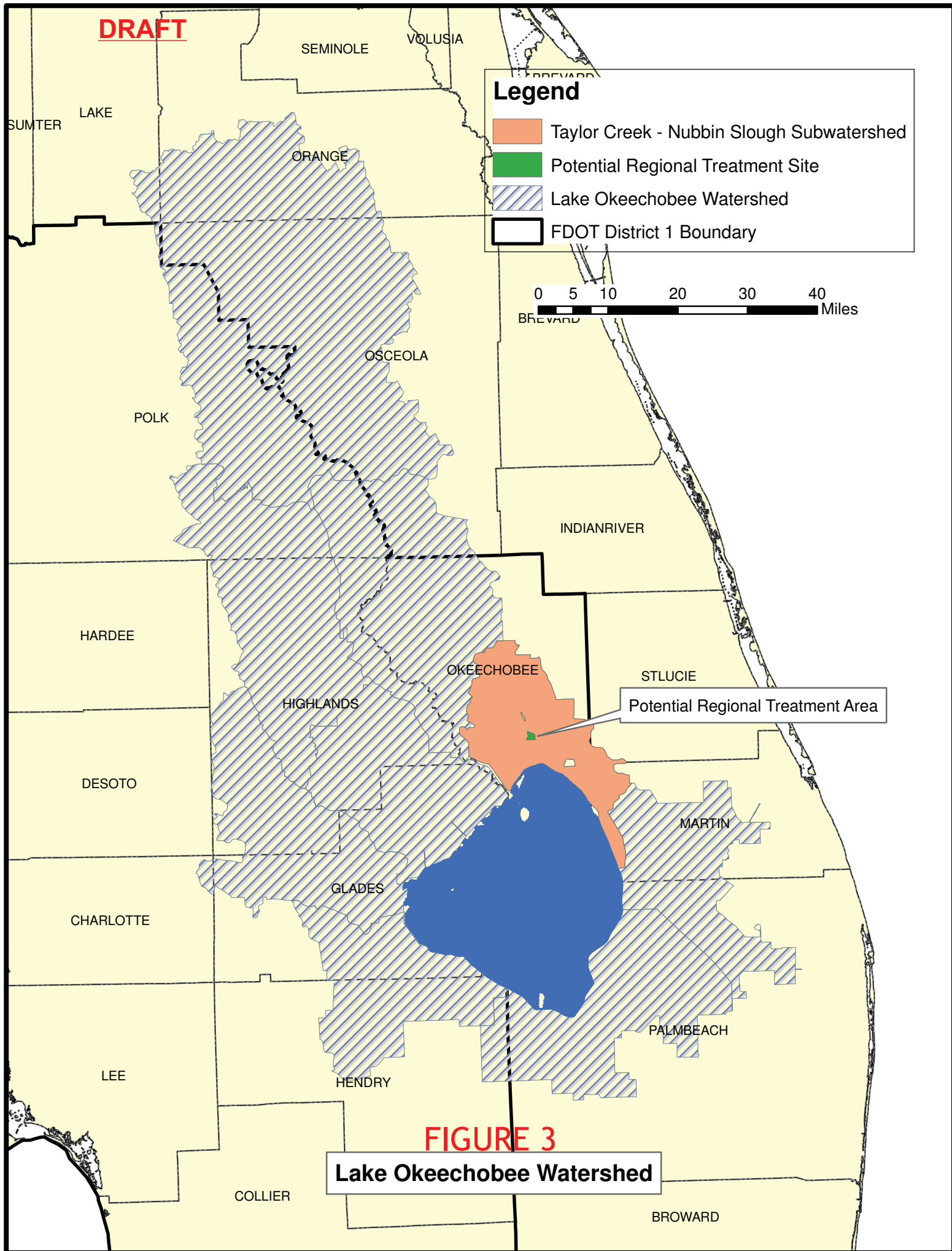
- Proposed 710 R/W
- Parcel of Interest
- Parcel Line

Service Layer Credits: Source: Esri,
DigitalGlobe, GeoEye, i-cubed, Earthstar
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0 0.125 0.25
Miles

FIG 2 - TERRAIN MAP
SR 710 Regional Facility
Conceptual Analysis

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Legend

- Taylor Creek/Nubbin Slough STA
- Proposed 710 R/W
- L-63N Basin
- Parcel of Interest

**L-63N Basin
111.9 sq. mi.**

**Taylor Creek/Nubbin Slough
Existing STA**

**Area Available for
Potential Regional Facility**

LOWER TAYLOR CREEK

L 63-N CANAL

S-192

MOSQUITO CREEK

L-62

Proposed SR 710

Service Layer Credits: Source: Esri,
DigitalGlobe, GeoEye, i-cubed, Earthstar
Geographics, CNES/Airbus DS, USDA,
USGS, AEX, Getmapping, Aerogrid, IGN, IGP,

0 1 2
Miles

FIG 4 - STA BASIN MAP
SR 710 Regional Facility
Conceptual Analysis

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Legend

L63N Basin Nutrient Land Use

- Barren Land
- Citrus Groves
- Dairies
- Improved Pasture
- Other Agriculture

- Rangeland
- Row and Field Crops
- Unimproved/Woodland Pasture
- Upland Forests
- Urban
- Water Bodies
- Wetlands

**L-63N Basin
111.9 sq. mi.**

**Taylor Creek/Nubbin Slough
Existing STA**

**Area Available for
Potential Regional Facility**

LOWER TAYLOR CREEK

L 63-N CANAL

MOSQUITO CREEK

Proposed SR 710

L-62

Service Layer Credits: Source: Esri,
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0 1 2
Miles

FIG 5 - STA NUTRIENT LAND USE

**SR 710 Regional Facility
Conceptual Analysis**

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Annual Geomean of Total Phosphorus
Concentration in Taylor Creek,
Measured at Cemetary Rd

2008 - 298 ppb
2009 - 334 ppb
2010 - 343 ppb
2011 - 439 ppb

Legend

- Cypress
- Improved Pastures
- Mixed Wetland Hardwoods
- Wet Prairies
- Woodland Pastures

L 63-N CANAL

S-192

LOWER TAYLOR CREEK

Proposed SR 710

Service Layer Credits: Source: Esri,
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Geographics, CNES/Airbus DS, USDA,
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0 0.125 0.25
Miles

FIG 6 POTENTIAL 100 ACRE STA LOCATIONS

**SR 710 Regional Facility
Conceptual Analysis**

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Annual Geomean of Total Phosphorus
Concentration in Taylor Creek,
Measured at Cemetary Rd

2008 - 298 ppb
2009 - 334 ppb
20010 - 343 ppb
2011 - 439 ppb

0 0.25 0.5
Miles

Legend

- Cypress
- Improved Pastures
- Mixed Wetland Hardwoods
- Wet Prairies
- Woodland Pastures

FIGURE 7

Potential Stormwater Treatment Area Locations - All areas approximately 100 acres

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Annual Geomean of Total Phosphorus
Concentration in Taylor Creek,
Measured at Cemetary Rd

2008 - 298 ppb
2009 - 334 ppb
2010 - 343 ppb
2011 - 439 ppb

Legend

- Cypress
- Improved Pastures
- Mixed Wetland Hardwoods
- Wet Prairies
- Woodland Pastures

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L 63-N CANAL

Dispersed Water
Storage Area
249 acres

LOWER TAYLOR CREEK

Proposed SR 710

Service Layer Credits: Source: Esri,
DigitalGlobe, GeoEye, i-cubed, Earthstar
Geographics, CNES/Airbus DS, USDA,
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0 0.125 0.25
Miles

FIG 8 AREA FOR POTENTIAL DISPERSED WATER
STORAGE
SR 710 Regional Facility
Conceptual Analysis

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Annual Geomean of Total Phosphorus
Concentration in Taylor Creek,
Measured at Cemetary Rd

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0 0.25 0.5
Miles

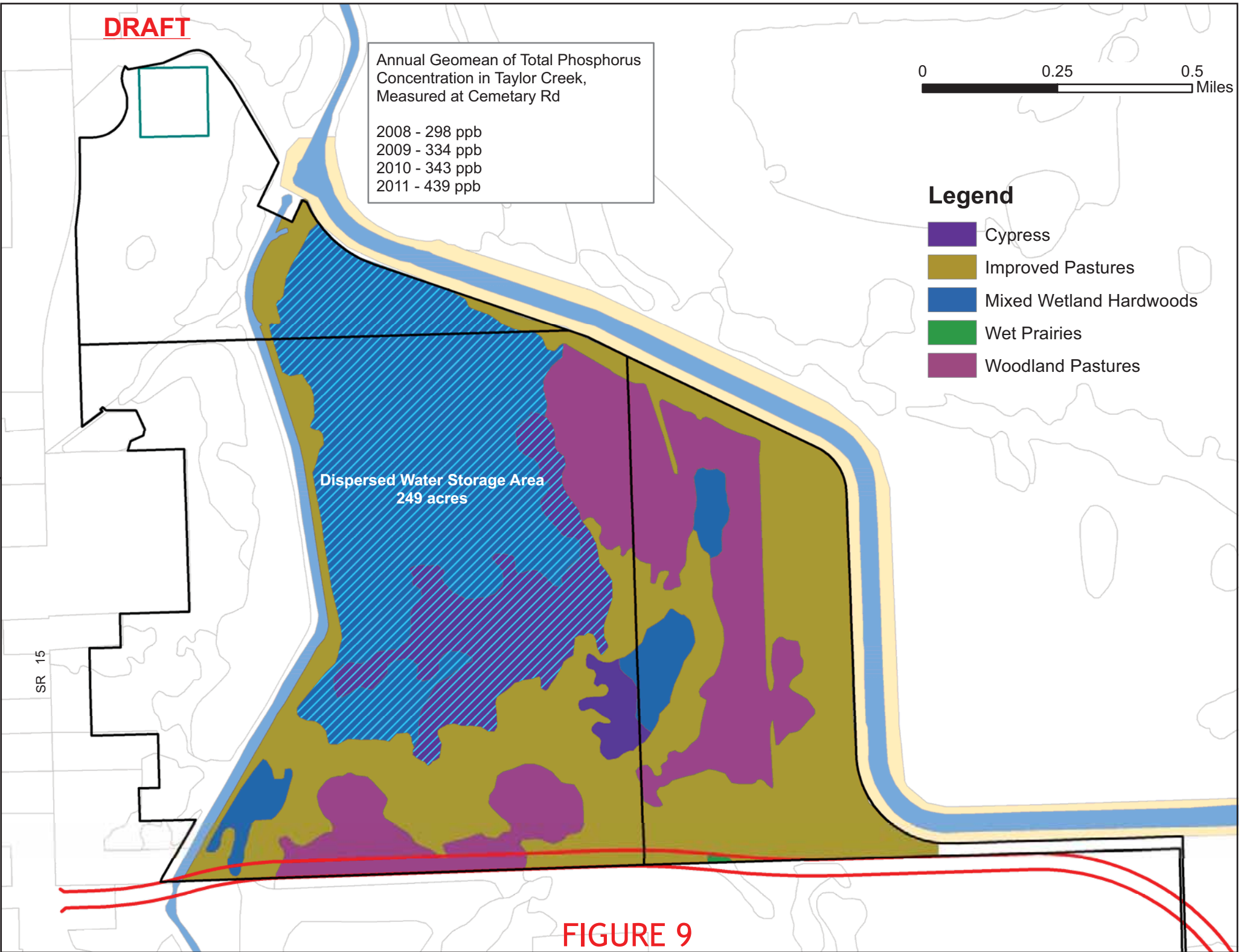
Legend

- Cypress
- Improved Pastures
- Mixed Wetland Hardwoods
- Wet Prairies
- Woodland Pastures

Dispersed Water Storage Area
249 acres

SR 15

FIGURE 9



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TAYLOR CREEK

LOWER TAYLOR CREEK

TAYLOR CREEK

L-63N

City Ditch Basin
3.3 sq. mi.

Lower Taylor Ck Basin
2.2 sq. mi.

Regional Pond
30 Ac

Proposed SR 710

Legend

- Proposed 710 R/W
- Regional Pond
- Regional Pond Basin
- Parcel of Interest
- Permitted Treatment

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX,

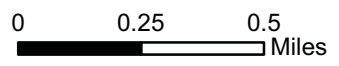


FIG 10 - REGIONAL POND BASIN MAP
SR 710 Regional Facility Conceptual

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Legend

Regional Pond

Pond Basin Nutrient Land Use

Barren Land

Citrus Groves

Dairies

Improved Pasture

Other Agriculture

Rangeland

Row and Field Crops

Unimproved/Woodland Pasture

Upland Forests

Urban

Water Bodies

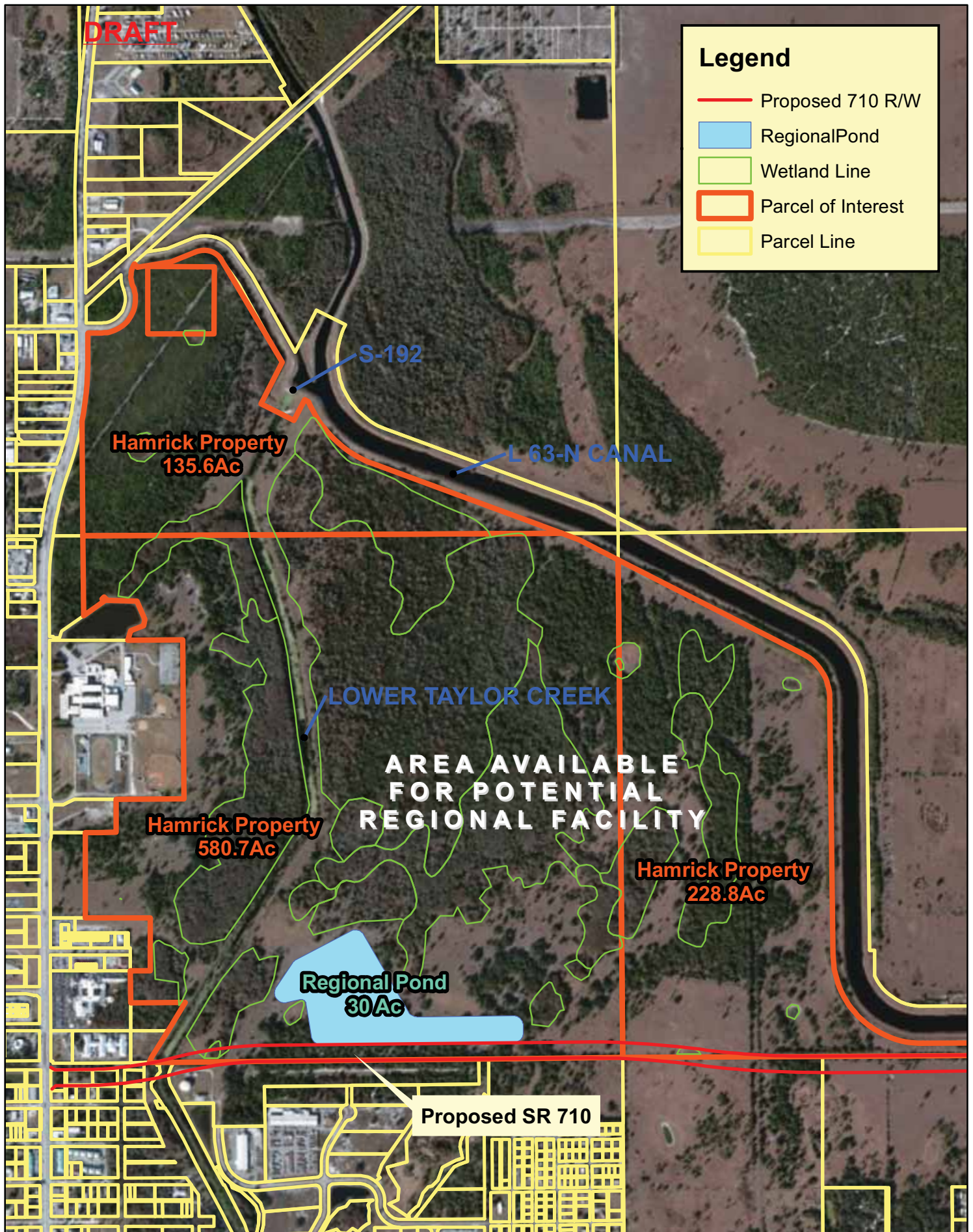
Wetlands

City Ditch Basin
3.3 sq. mi.

Lower Taylor Ck Basin
2.2 sq. mi.

Regional Pond
30 Ac

Proposed SR 710



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP,

0 0.125 0.25 Miles

FIG 12 - REGIONAL POND LOCATION

**SR 710 Regional Facility
Conceptual Analysis**

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Legend

- Runway
- Proposed 710 R/W

Buffer

- 10,000ft
- 5,000ft
- 5mi
- Airport

FAA BUFFERS

LOWER TAYLOR CREEK

S-192

Potential Regional
Treatment Facility

L 63-N CANAL

Proposed SR 710

Service Layer Credits: Source: Esri,
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0 0.5 1
Miles

FIG 13 - FAA Buffer