

The Ruby Street Stormwater Project

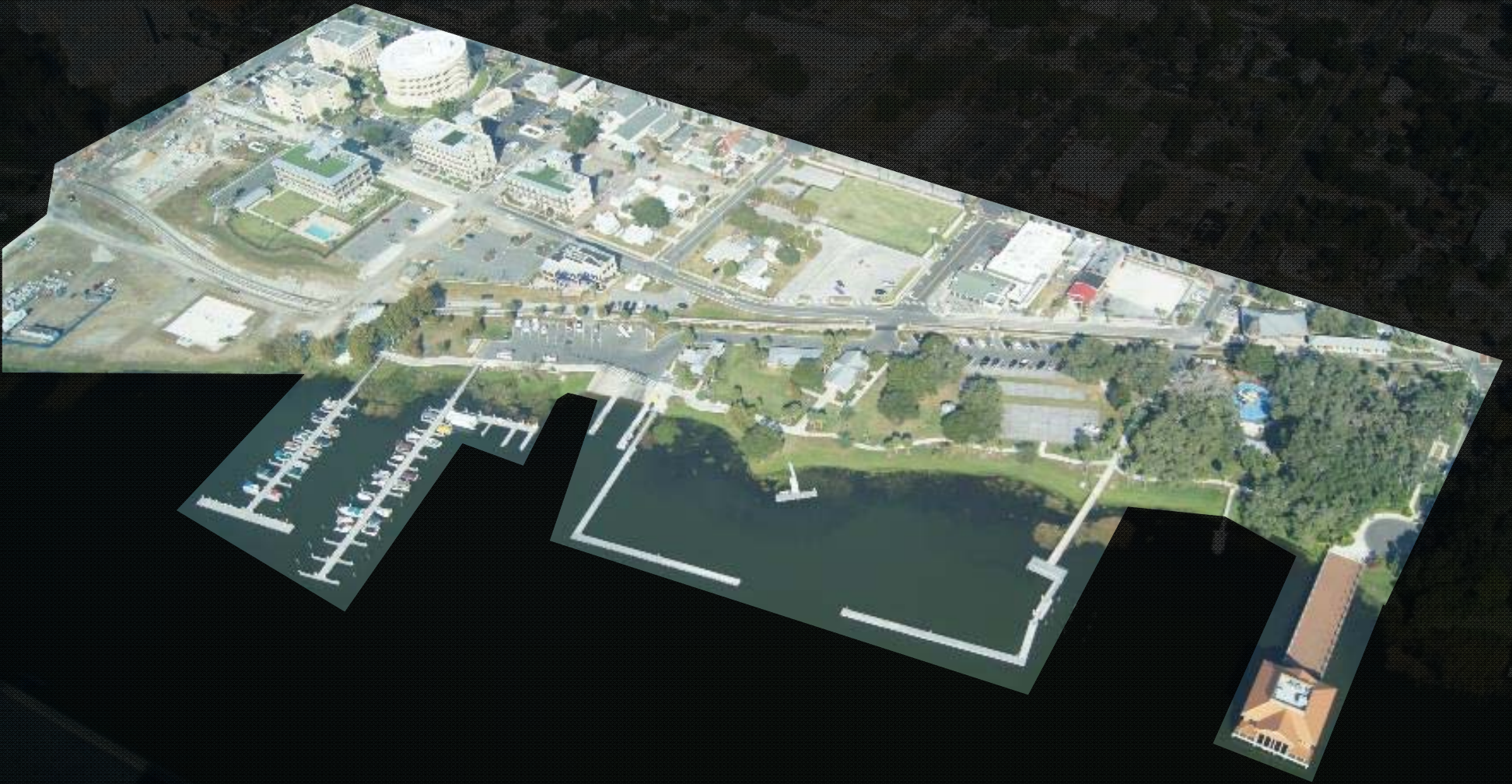
How an Innovative Approach magnifies the
Social, Economic, and Environmental Benefits
to the City of Tavares, Florida

Brad Hayes, Utility Director
Scott Shannon, Vice President, Arcadis



TAVARES
America's Seaplane City®

















Classic Race Boat Association presents

Florida Vintage RACE BOAT CIRCUIT



Tavares Fall Thunder Regatta
November 18, 19, 20, 2016

Tavares Winter Gathering
January 14, 2017

Tavares Spring Thunder
Regatta
March 17-19, 2017

Tavares Sunnyside Boat Show
March 24-26, 2017

Stuart Sailfish Regatta
May 19-21, 2017



Sanctioned by the
American Power Boat Association



Winter
Gathering
www.cra.org

www.ClassicRaceBoatAssoc.com
(352) 729-6661



RIFLES, RAILS & HISTORY

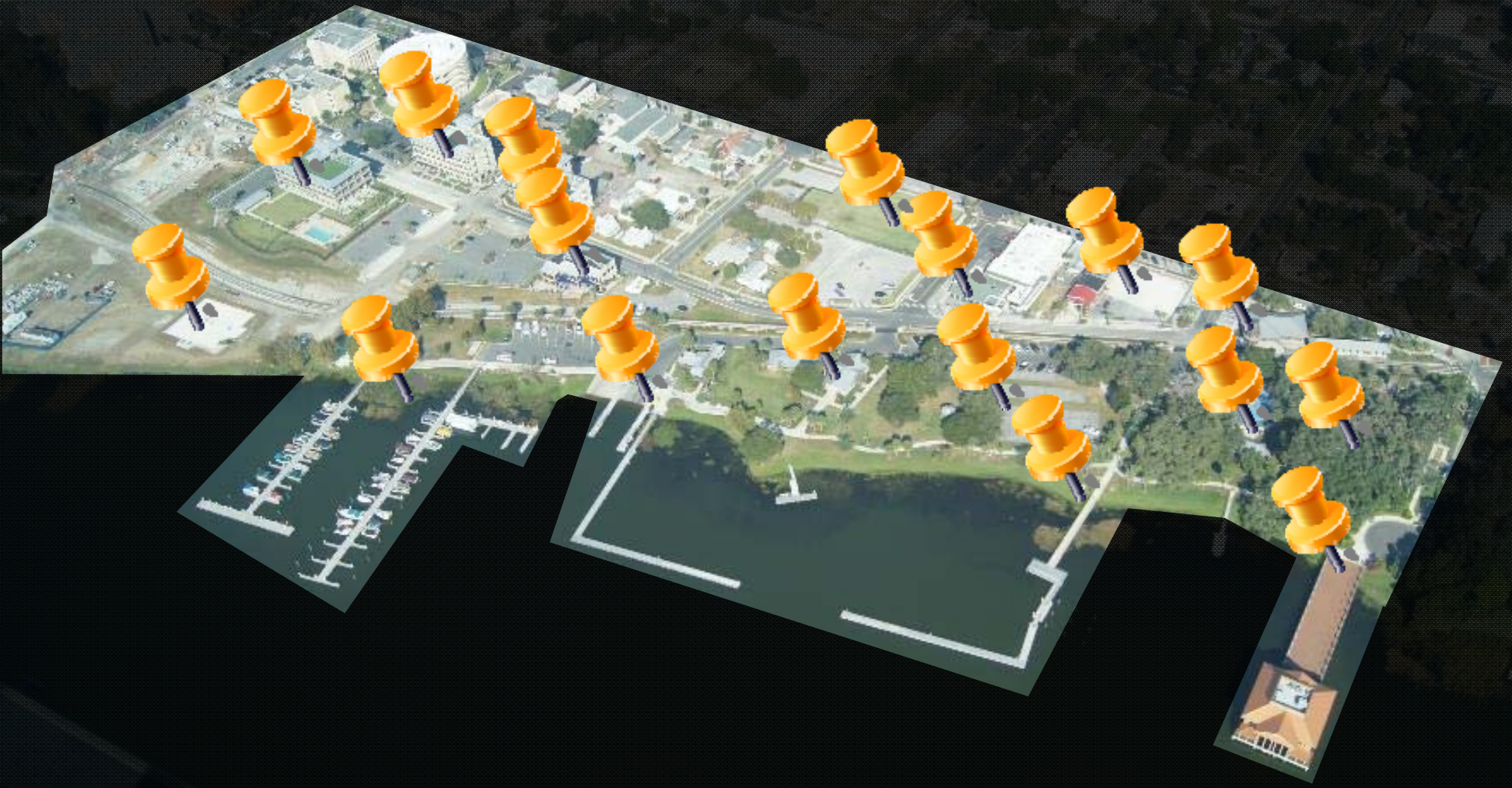


STEAM
Back to the
NORTH
& SOUTH

Living History Encampment
Weeden Park - Tavares, Florida
September 27 - 29, 2013

Made possible by
Florida Heritage

www.floridaheritage.org



Periodic Flooding



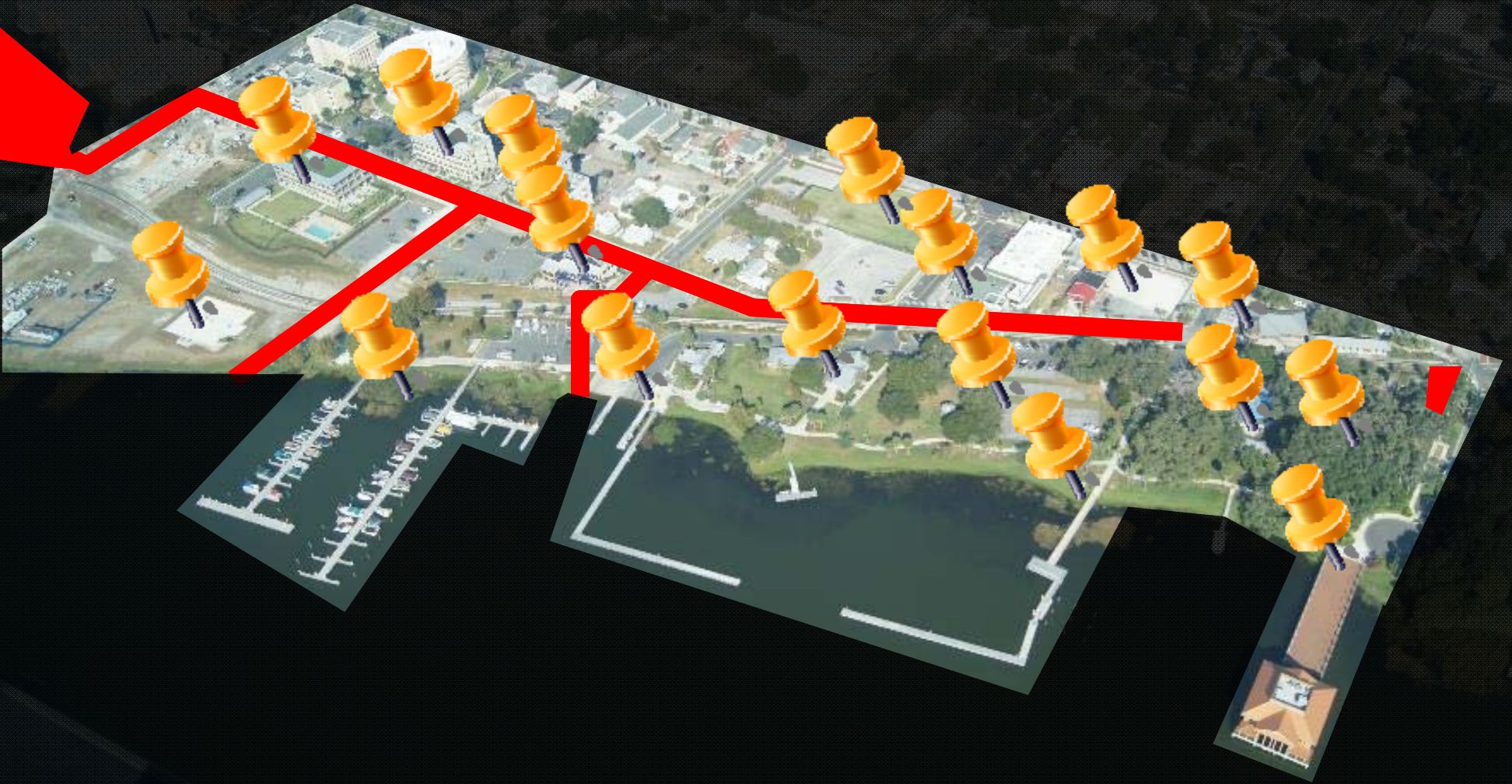
Project Goals

Reduce pollutant loading (TSS, N, P) to Lake Dora

Use innovative, sustainable treatment approach

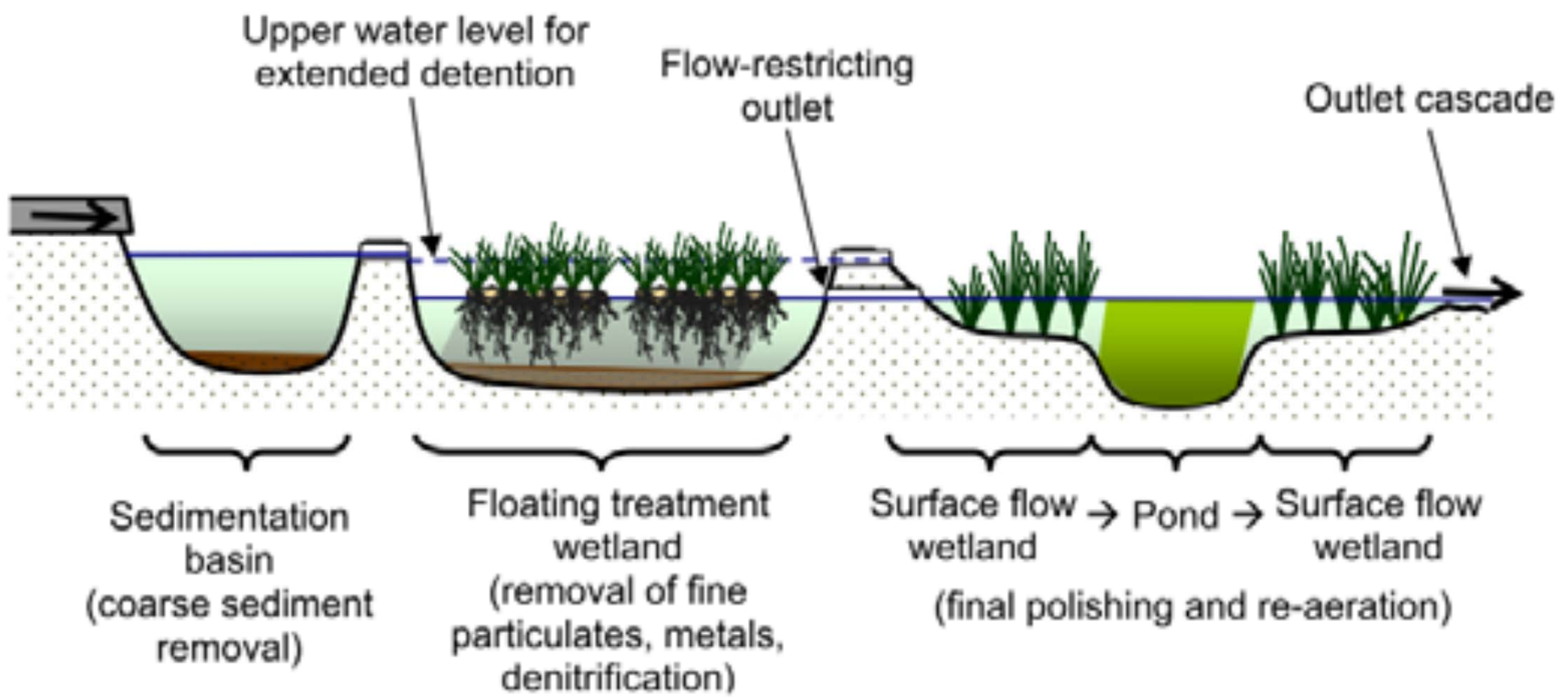
Educate the public about stormwater

Enhance quality of life, community, and economic development in the City



















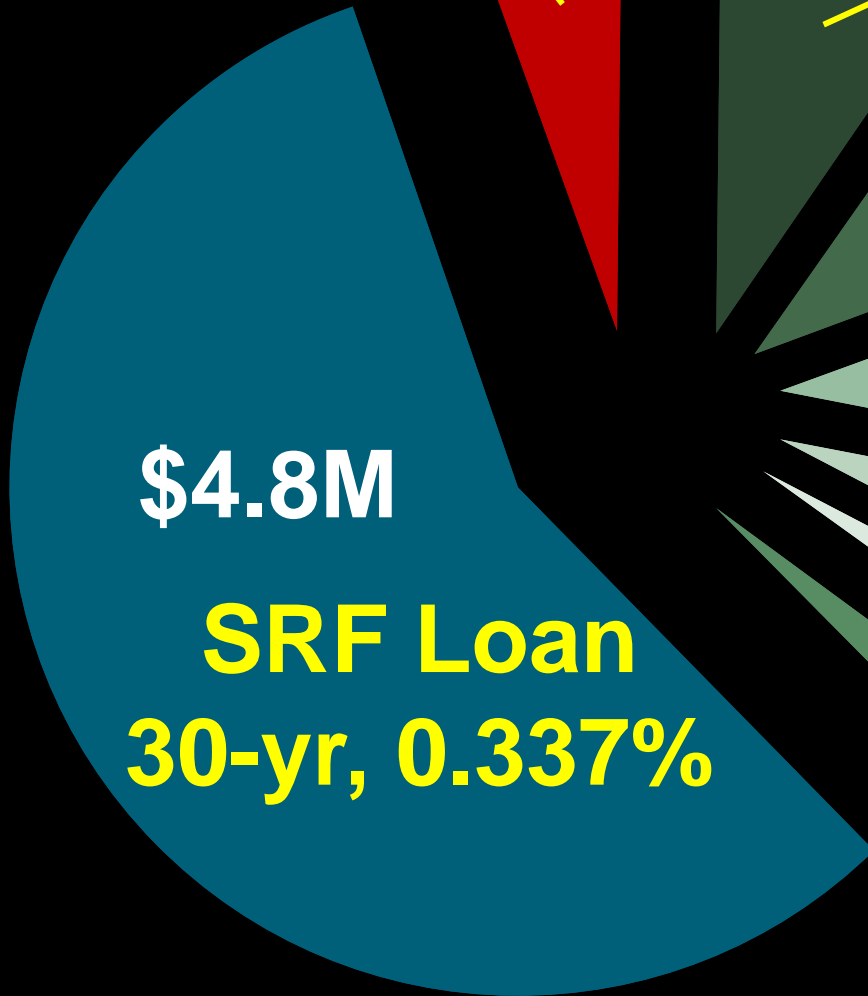


\$8.5M

About the money...

City Funds

\$0.5M



Grants



\$3.1M

TAVARES
America's Seaplane City™



ADDRESS	NUMBER	GRADE	ESTIMATED COST	START DATE	END DATE
AMPHIBIOUS TRAIL	300	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	301	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT - ADJACENT	302	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
CARROLL PLACE DRIVE IMPROVEMENT	303	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	304	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	305	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	306	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	307	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	308	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	309	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	310	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	311	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	312	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	313	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	314	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	315	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	316	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	317	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	318	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	319	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	320	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	321	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	322	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	323	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	324	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	325	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	326	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	327	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	328	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	329	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	330	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	331	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	332	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	333	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	334	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	335	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	336	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	337	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	338	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	339	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	340	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	341	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	342	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	343	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	344	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	345	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	346	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	347	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	348	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	349	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	350	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	351	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	352	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	353	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	354	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	355	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	356	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	357	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	358	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	359	10' B&G 15'	\$1,000,000	10/15/11	12/31/11
WOLF CREEK DRIVE IMPROVEMENT	360	10' B&G 15'	\$1,000,000	10/15/11	12/31/11

Part of a 12-Year Utilities Capital Program which included design, construction, and state & local funding for drinking water, wastewater, reclaimed water, and stormwater drainage systems, with a cost of...

\$36M

Funded with \$9.5M in State/Local Grants, and the balance with low-interest SRF loans.

CAUTION!

Now Entering Construction Zone



Lessons Learned



1. More soil borings during design

Lessons Learned



2. Underground surprises (Part 1)

Lessons Learned



3. Underground surprises (Part 2)

Lessons Learned



4. Dewatering

Lessons Learned



5. Public Relations!

