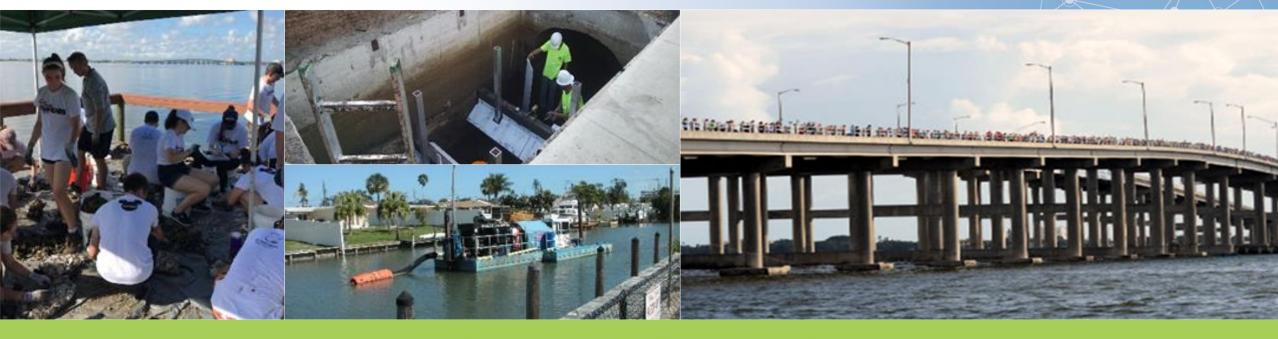
Brevard County Budget Workshop Save Our Indian River Lagoon Program Summary

February 29, 2024



Brevard County's



Public Education & Engagement



Budget: \$3,530,000
TN Reduction: 33,709 lbs/year
Average Cost/lb TN: \$105
Projects Completed: 1
Projects Underway: 4
Projects in the Plan: 7

WWTF Upgrades for Reclaimed Water



Budget: \$27,537,049
TN Reduction: 74,139 lbs/year
Average Cost/lb TN: \$371
Projects Completed: 3
Projects in Construction: 1
Projects in the Plan: 7

Rapid Infiltration Basin/ Sprayfield Upgrades



Budget: \$82,207

TN Reduction: 317 lbs/year

Average Cost/lb TN: \$259

Projects Completed: 1

Projects in Construction: 0

Projects in the Plan: 2

Package Plant Connections



Budget: \$2,016,627
TN Reduction: 1,442 lbs/year
Average Cost/lb TN: \$1,398
Projects Completed: 1
Projects in Construction: 0
Projects in the Plan: 4

Smoke Testing/ Sewer Lateral Repairs



Budget: \$1,454,498
TN Reduction: 6,196 lbs/year
Average Cost/lb TN: \$235
Miles Smoke Tested: 276
842 of 1,247 Leaks Repaired
Miles in the Plan: 299

Septic to Sewer



Budget: \$135,374,605
TN Reduction: 114,440 lbs/year
Average Cost/lb TN: \$1,196
Homes Connected: 513
Homes in Construction: 256
Homes in the Plan: 4,822

Septic System Upgrades



Budget: \$29,250,000
TN Reduction: 37,981 lbs/year
Average Cost/lb TN: \$770
Homes Upgraded: 229
Homes Contracted: 394
Homes in the Plan: 1,625

Stormwater Projects



Budget: \$71,559,345

TN Reduction: 249,781 lbs/year
Average Cost/lb TN: \$286
Projects Completed: 43
Projects in Construction: 1
Projects in the Plan: 269

Aquatic Vegetation Harvesting



Budget: \$2,243,689
TN Reduction: 33,111 lbs
Average Cost/lb TN: \$68
Projects Completed: 6
Projects in Construction: 1
Projects in the Plan: 10

Muck Removal



Budget: \$133,749,381
TN Reduction: 355,868 lbs/year
Average Cost/lb TN: \$376
Projects Completed: 3
Projects in Construction: 2
Projects in the Plan: 21

Interstitial Water Treatment



Budget: \$38,761,200
TN Reduction: 519,439 lbs
Average Cost/lb TN: \$75
Projects Completed: 2
Projects in Construction: 2
Projects in the Plan: 16

Oyster Bars



Budget: \$9,813,625
TN Reduction: 24,747 lbs/year
Average Cost/lb TN: \$397
Projects Completed: 9
Projects in Construction: 5
Projects in the Plan: 28

Planted Shorelines



Budget: \$126,480

TN Reduction: 527 lbs/year

Average Cost/lb TN: \$240

Projects Completed: 8

Projects in Construction: 0

Projects in the Plan: 11

Clam Restoration



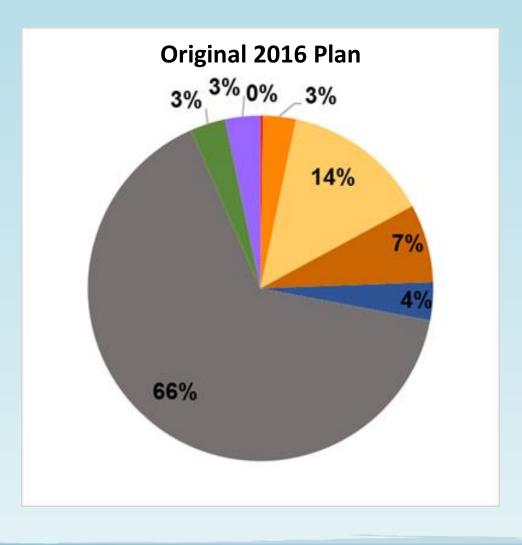
Budget: \$60,000 TN Reduction: 1,000 lbs Average Cost/lb TN: \$60 Projects Completed: 4 Projects Underway: 1 Projects in the Plan: 10

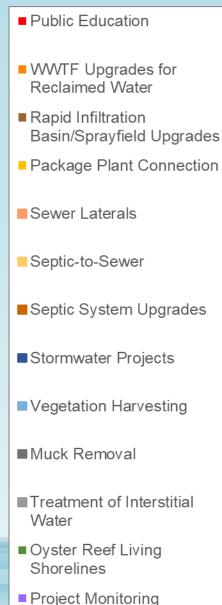
= \$585.7M

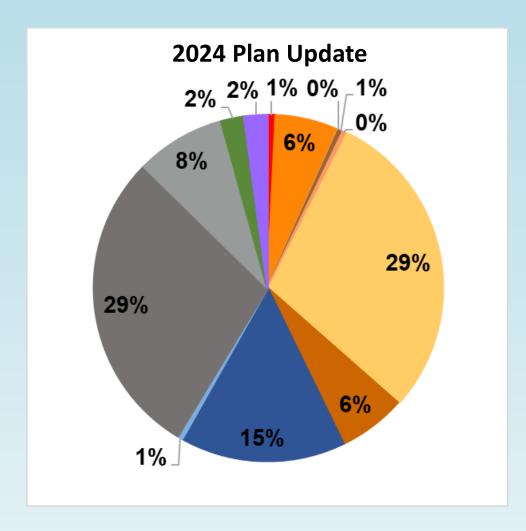
2017-2023 Expenditures = \$73.7M

Projects Underway = \$324.8M

Comparison of Plan Allocations



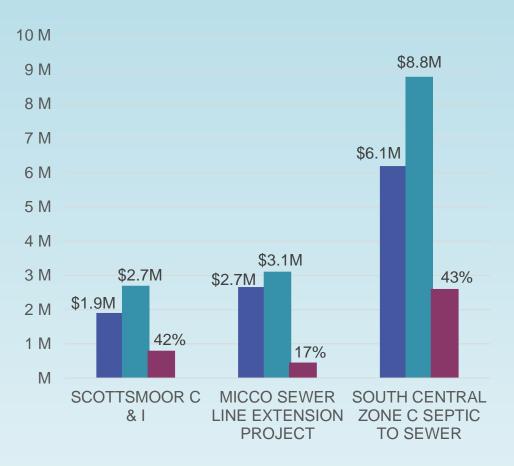


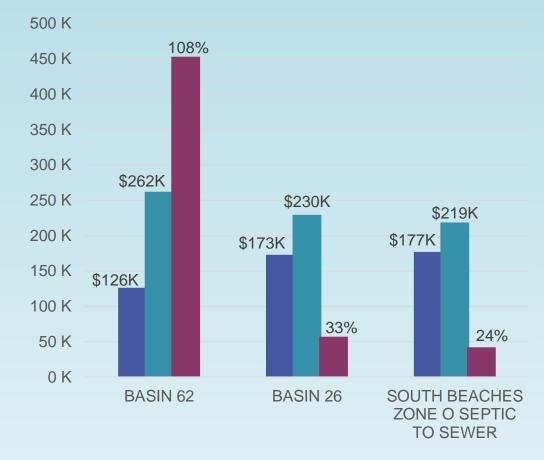


SOIRL Project Progress

City Projects		County Projects		Homeowner Projects	
# Complete	43	# Complete	45	# Complete	1,423
# Allocated	85	# Allocated	291	# Allocated	3,566
\$ Awarded	\$115,764,901	\$ Awarded	\$276,711,375	\$ Awarded	\$41,077,777
\$ Spent	\$ 29,488,576	\$ Spent	\$ 33,169,103	\$ Spent	\$ 4,900,084

Inflation – Construction Trends





■ ENGINEER'S ESTIMATE ■ vs CONTRACTORS LOW BID ■ VARIANCE

■ ENGINEER'S ESTIMATE ■ vs CONTRACTORS LOW BID ■ VARIANCE

Comparing 2016 SOIRL Fund Allocation to 2024

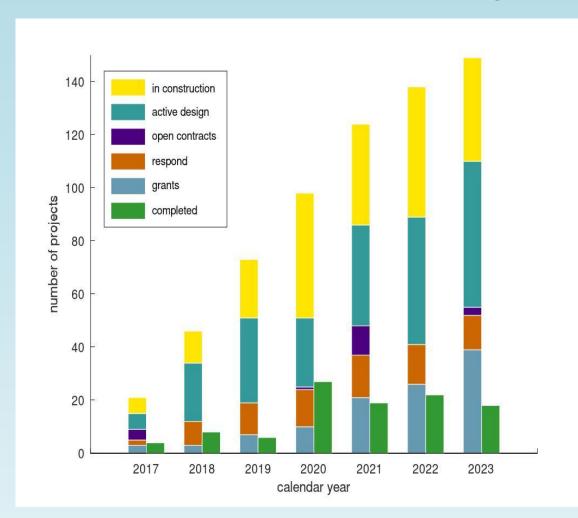
Project Type	2016 Allocations	2024 Allocations	Increase
Public Education and Outreach	\$625,000	\$4,001,009	\$3,376,009
Wastewater	\$73,356,000	\$232,431,032	\$159,075,032
Stormwater	\$10,375,000	\$92,656,607	\$82,281,607
Muck and Interstitial	\$198,100,000	\$208,720,439	\$10,620,439
Restoration	\$10,000,000	\$12,250,898	\$2,250,898
Monitoring	\$10,000,000	\$10,000,000	\$0
Contingency	\$0	\$25,654,341	\$25,654,341
Total	\$302,456,000	\$585,714,326	\$283,258,326

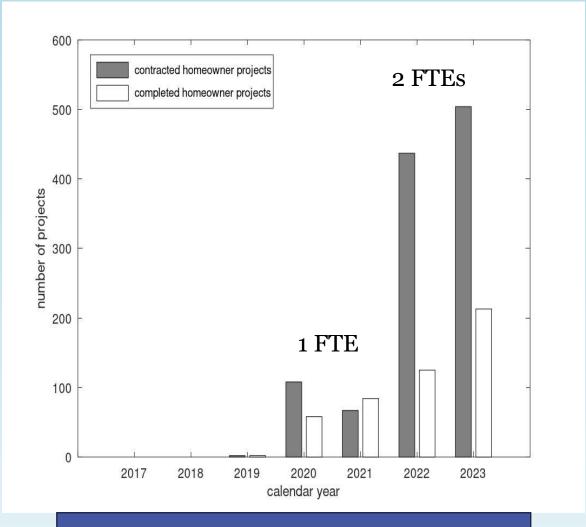
6

Program and Salary Expenses by Fiscal Year



SOIRL Project Management





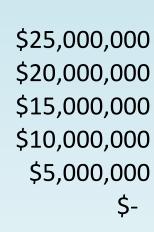
Community Project Counts

Homeowner Project Counts

3+ FTEs

Grants Leveraged by SOIRL Funds

PLUS ~\$44M in State
Grant Awards Announced





Water Project Funding for Brevard in the 2023 Appropriations Bill

	•	Grand Canal Phase 5 Environmental Dredging -	\$9,000,000
တ္တ	•	Eau Gallie NE Construction Environmental Dredging -	\$5,010,244
SOIRL	•	Micco/Little Hollywood Septic to Sewer Conversion -	\$4,500,000
2	•	Sykes Creek Phase 2 Environmental Dredging -	\$4,324,002
	•	Brevard County Septic Upgrades to Advanced Treatment Phase 3 -	\$450,000
Uti Sej	•	South Beaches 2nd Deep Injection Well -	\$2,000,000
Zi. Etie	•	North Brevard Water Treatment Plant Expansion -	\$1,500,000
Utilities Services	•	South Brevard Advanced Wastewater Treatment Plant -	\$1,500,000
	•	Palm Bay Septic to Sewer Conversions -	\$2,100,000
	•	Cocoa Beach Bicentennial Park -	\$1,250,000
C <u>÷</u>	•	Cocoa Beach Gravity Sewer Rehabilitation -	\$1,000,000
Cities	•	Cocoa Beach Jr./Sr. High School Indian River Restoration Project-	\$850,000
	•	Melbourne Espanola Baffle Box Water Quality Project -	\$287,500
	•	Indian Harbour Beach 2nd Generation Baffle Box at Cheyenne Court -	\$250,000
	•	Indian Harbour Beach Gleason Park Lake Bank Stabilization -	\$175,000
9	•	Sebastian Inlet North/South Jetty Maintenance/Safety Improvements -	\$2,000,000
Other	•	Kilroy Monitoring System Indian River Lagoon -	\$1,000,000

2023 Florida Legislation

- 1. \$100 Million for Indian River Lagoon Cleanup Projects
- 2. SB 1632 = Indian River Lagoon Protection Program
 - Water Quality Monitoring
 - BMAP Enforcement, Comp Plan to include BMAP projects
 - Septic to Sewer for Developments > 50 lots, < 1 acre
 - 65% Nitrogen Reducing Septic, No Conventional Septic
- 3. South Beaches Area of Critical State Concern
- 4. SLIP Studies for "all areas at risk due to SLR"
- 5. Florida Seagrass Restoration Plan
- 6. Fertilizer Pre-emption
- 7. Biosolids Grants

2024 Draft Appropriations (HB 5001)

Grant Programs		 Indian River Lagoon Water Quality Improvement Projects 	\$100,000,000 (\$25M in SB)
	<u> </u>	 Special Water Quality Enhancement & Accountability (Blue Green Algae Task Force) 	\$10,800,000
	an	 Florida DEP Innovative Technologies Grants and Aids 	\$10,000,000
	+	Grants and Aids - Harmful Algal Blooms	\$5,000,000
0,			. , ,
SOIRL Utilities Other Brevard County		Sykes Creek Ph 2 Environmental Dredging & Interstitial Water Treatment Project	\$2,162,001
	S	Eau Gallie NE Environmental Dredging and Interstitial Water Treatment	\$1,250,000
	$\stackrel{\square}{=}$	Merritt Island Zone F Septic-to-Sewer (71 sites)	\$1,000,000
	2	Indian River Lagoon Quick Connects to Sewer	\$450,000
		Indian River Lagoon Septic Upgrades to Advanced Treatment Units	\$450,000
		Port St. John Regional Advanced Wastewater Treatment Plant Ph 2	\$1,250,000
		Merritt Island Sewer and Manhole Lining Phase 2	\$1,000,000
	ies	Merritt Island Lift Station Replacement (SB only)	\$350,000
	0,		
		Pre-Construction Activities Re: Ellis Road Widening Project	\$2,000,000
	9	Merritt Island Canal Dredging	\$1,500,000
	he	Medal of Honor Tribute Merritt Island Veterans Memorial Park (SB only)	\$600,000
	Mud Lake for West Cocoa Drainage Improvements (SB only)	\$350,000	
			. ,

Other IRL Water Projects

2024 Draft Appropriations (HB 5001)

 Cocoa Beach Gravity Sewer Rehabilitation Cocoa City Septic to Sewer Conversion for 88 Homes Palm Bay Indian River Lagoon Baffle Box Projects Palm Bay Indian River Lagoon Water Quality Improvement Project Baseflow & Ponds Satellite Beach Grand Canal Finger Canals Muck Dredging West Melbourne Flood Risk Reduction Connect Canal 70 to Canal 63 	\$500,000 \$3,000,000 \$750,000 \$550,000 \$1,500,000 \$400,000
Kilroy Network Expansion (ORCA Water Quality Monitoring Systems)	\$250,000
University of Central Florida Restore Lagoon Inflow Final Phase	\$2,450,000
Deltona Sanitary Sewer Collection System Rehabilitation	\$1,000,000
Fort Pierce Utilities Authority Relocate WW Treatment Plant off Indian River Lagoon	\$2,500,000
Indian River County IRL Outfall Upgrades to Provide Nutrient and Waste Removal	\$375,000
Martin County Bessey Creek Retrofit	\$1,000,000
Martin County Gomez Community Pettway Potable Water Service	\$940,000
Port St. Lucie A14 Water Control Structure Improvements	\$262,500
 Port St. Lucie Westport Wastewater Treatment Facility Nutrient Reduction Improvements 	\$2,500,000
Sebastian Inlet North and South Jetty Maintenance and Safety Improvements	\$1,000,000
South Daytona Sewer System Rehabilitation Pipelining	\$375,000
Stuart Sewer Connection Assistance	\$500,000
 Wetlands Restoration (FDEP projects that benefit fish & wildlife habitat, water quality) 	\$2,500,000

Return on Investment for the ½-cent Tax

• \$4 Save Our IRL dollars from residents









raises

\$1 Save Our IRL dollar from tourists*



and leverages

• \$3.25 in other federal, state, non-governmental and local match

for a total buying power of









• \$8.25, which is more than double what residents contribute to the ½ cent sales tax











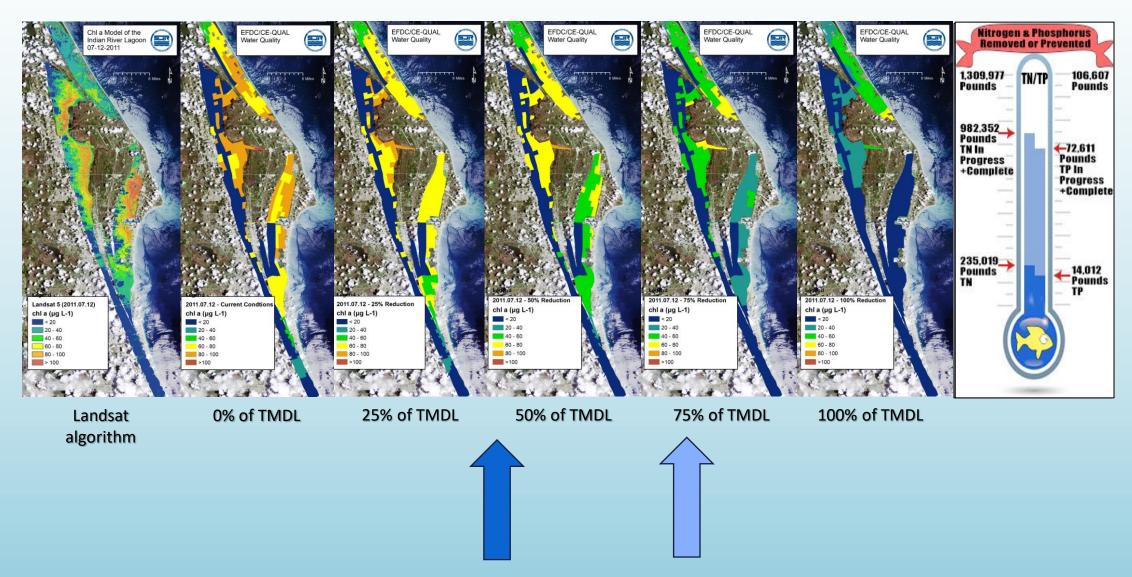






^{*}Based on a 2018 tourism study that indicated about 20% of SOIRL collections are from tourists and updated total project costs in the draft 2024 Plan, Table 6-9

Algal Bloom Response to Reducing Pollution



Algal Bloom Response to Reducing Pollution

