



Save Our Indian River Lagoon Project Plan June 2023 Progress Report

WORK COMPLETED THIS MONTH:

- Leaky Lateral Repairs – 378 of 641 detected private lateral leaks have been repaired; 57 grant applications received; 47 grant recipient sites have been repaired and processed for payment
- Septic Upgrades – 12 more reimbursements processed of 166 to date; 315 total agreements executed
- Quick Connects – 1 more reimbursement processed of 64 to date: 124 agreements executed. Over 100 applications were requested from homeowners in response to the most recent mailing
- University of Central Florida conducted deployment monitoring of adult and spat-on-shell oysters into gabions at McNabb Park.
- Riveredge Living Shoreline – growth in some of the *Spartina sp.* replanted after the 2022 hurricanes.
- Contract Amendments - Indian Harbour Beach Muck Dredging and Interstitial Treatment executed
- Purchase order executed for new videos with 142 Productions

WORK UNDERWAY THIS MONTH:

- Grants - Awarded an additional \$65,000 for one year of continued satellite analysis and weekly Harmful Algae Bloom Reports through the Florida Department of Environmental Protection; negotiating contracts with Florida Department of Environmental Protection for Willow Lakes and The Cove sewer connection projects
- 7 Derelict Vessels Removed
- In-Ground Nitrogen-Reducing Biofilter system – final report under review
- South Central C Septic-to-Sewer – 90% complete; lift station plumbing and electrical work underway
- Micco Sewer Line Extension – Boring gravity sewer under US 1 is complete
- Brevard County Septic-to-Sewer – 75% design review complete for North Merritt Island Zone E; 75% design in review for South Banana Zone B and Merritt Island Zones F; 75% design underway for Micco Zone B, Sykes Creek Zone R, Sykes Creek Zone M & T;
- Brevard County Stormwater – Design Task Orders out for signature for Basin 2258 South Babcock, Basin 1066 Angel Ave, Basin 2258 Ditch Outfall Denitrification, Basin 998 Hampton Homes, and Basin 1124 Elliot Drive Canal.
- Basin 1387 Kingsmill-Aurora Phase II – Change order out for signatures regarding further modeling
- Basin 1398 Sand Dollar Canal Harvesting – Coordinating with Public Works for harvesting
- Basin 41 Huntington – Kickoff meeting with consultant is scheduled for an updated project design
- Sykes Creek Phase 1 Muck Dredging – Removed a total of 63,438 cubic yards to date
- Grand Canal Muck Dredging - DMMA preparations underway. Dredge mobilization scheduled for the week of June 5th. Tentative dredging start date June 15th.
- Sykes Creek Phase 2 Muck Dredging – Request for Qualifications draft in review. Design plan 90% complete. Gopher tortoise survey conducted on May 22nd.
- Eau Gallie Muck Dredging –Engineering company for consulting services selected.
- Contract Amendments –Cocoa Beach McNabb Plants and Golf Muck Project, West Melbourne Ray Bullard Water Reclamation Facility Upgrade, and Satellite Beach Hedgecock/Grabowsky Septic to Sewer in review and Lori Laine out for signature
- Contracts – Melbourne's Cherry Street Baffle Box, Spring Creek Baffle Box, and Spring Creek Dredging in review; Cocoa N Fiske Floating Wetlands out for signature



PRESENTATIONS THIS MONTH:

May 24 – Stella Maris Jr. Aquanauts Summer Camp Lagoon Day - Matt
June 1 – Florida Water Resources Conference - Anthony
June 15 – Florida Tech Science, Technology, Engineering, and Math (STEM) Institute – Brandon
June 19 – Stella Maris Eco-Camp Lagoon - Matt

UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS:

June 9– Ocean Research & Conservation Association [Lab Technique Training: Pipetting & Dilutions](#)
June 15 - Ocean Research & Conservation Association [Introduction to Fish Monitoring & Processing](#)
May 19 – Ocean Research & Conservation Association [Introduction of Citizen Science Projects](#)

UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES:

[June 10 – Keep Brevard Beautiful Titusville Summer Series Litter Cleanup](#)
[June 24 – Keep Brevard Beautiful Palm Bay Summer Series Litter Cleanup](#)
June 15 – Ocean Research & Conservation Association [Fish Processing - Email Missy Weiss To Register](#)
[June 24 – Keep Brevard Beautiful Palm Bay Summer Series Litter Cleanup](#)
July 7 – Marine Resources Council [First Friday Litter Patrol](#)
Marine Resources Council super-clam monitoring, storm drain marking in Melbourne, and Concrete Creations
Program seeking volunteers – [Email Caitlin Bagnall to register](#)
Rotary Park rain garden maintenance or storm drain marking in Cocoa – [Email Carlos Cuevas for opportunities](#)
Pineda Waterway Warriors Cleanup – Every 2nd & 4th Saturday under Tropical Trail Exit overpass – [Email Sherill for more information](#)

WEBSITE, SOCIAL MEDIA, NEWSLETTER, AND REPORT LINKS:

Lagoon Loyal Outreach & Engagement Landing Page	Save Our Indian River Lagoon YouTube
Save Our Indian River Lagoon Website	Sign up for our Monthly Newsletter
Save Our Indian River Lagoon Facebook	Sign up for our Weekly Harmful Algal Bloom Reports
Save Our Indian River Lagoon Instagram	

FUTURE TOPICS FOR SPECIAL PRESENTATIONS:

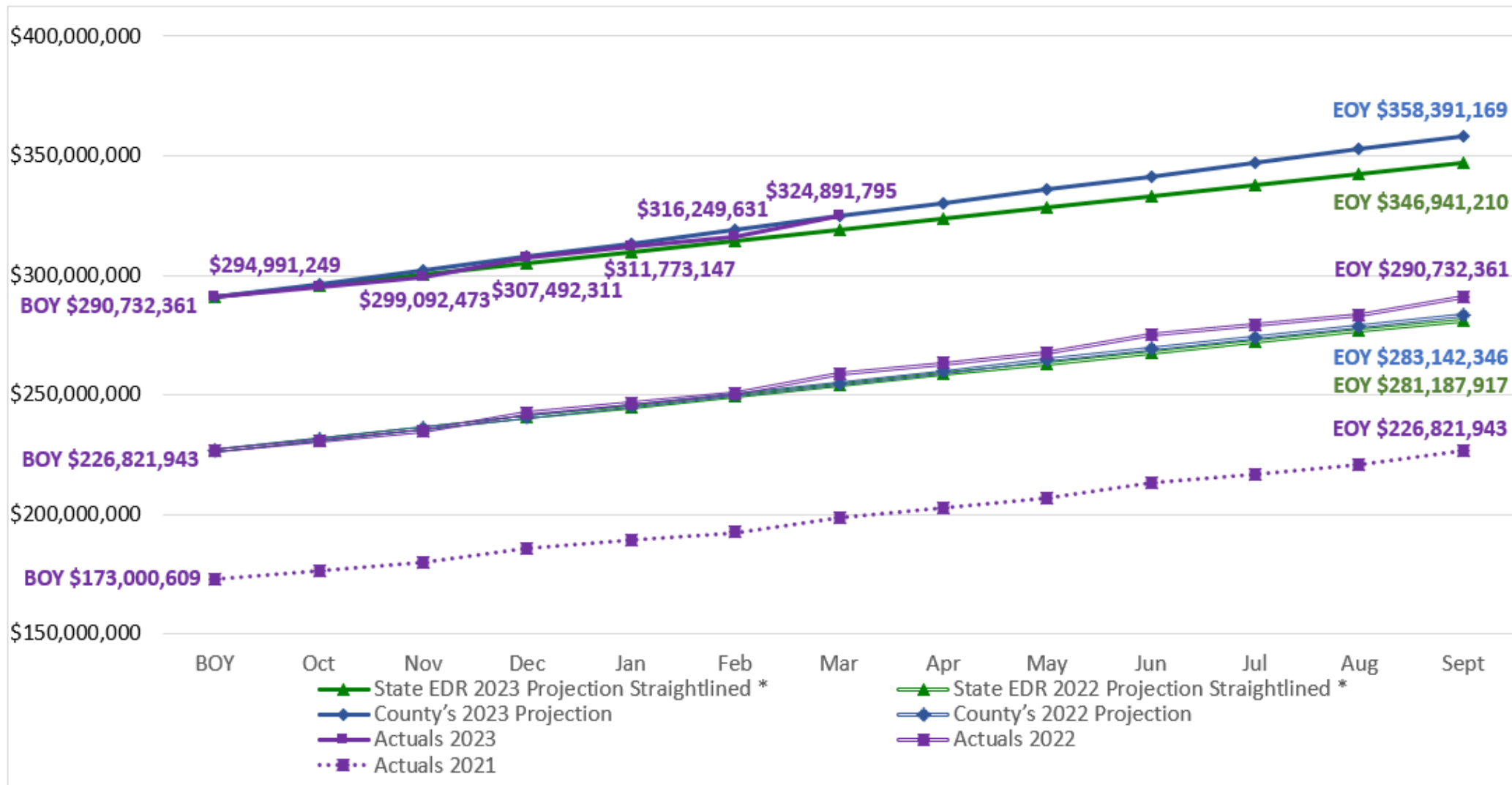
1. Surface Water Remediation Technologies
2. Turf grass options and alternatives
3. Lagoon Projects - managed and funded by other agencies, entities, or grant programs
4. Nutrient Loading Impacts of Reclaimed Water
5. Project Performance Measurements and Cost-Effectiveness Results
6. Inground Nitrogen Reducing Bioreactor Septic Drain Field Pilot Project Findings
7. Clam Restoration and Aquaculture Stimulus Projects
8. Shoreline Armor and Living Shoreline Permitting Authorities, Rules, and Opportunities
9. Lagoon Fish and Fisheries Research
10. Low Impact Development/Green Infrastructure/Resilience: Local examples and potential opportunities
11. Microplastics – University of Central Florida research
12. Isotope studies
13. Zoo Conservation/Aquarium
14. Bottlecaps as denitrification media
15. Indian River Lagoon Research News: Conference, Symposium, or Assembly Highlights

Save Our Indian River Lagoon Revenues Cumulative Graph

Fiscal Year 20-21 to Current Fiscal Year

* Economic and Demographic Research Data is sourced from Florida's Office of Economic & Demographic Research using their Estimation of Realized and Unrealized Tax Revenues Table

- Projected and Actual Data is from Systems, Applications and Products program
- EDR-Economic and Demographic Research Data, BOY-Beginning of Year, EOY-End of Year
- For Screen Readers use the Save Our Indian River Lagoon Revenues Cumulative Chart Fiscal Year 20-21 to Current Fiscal Year Table
- Updated the State EDR Beginning Of Year to match Actuals End Of Year to the prior Fiscal Years



Save Our Indian River Lagoon Revenues Cumulative Chart

Fiscal Year 20-21 to Current Fiscal Year

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Month	State EDR 2023 Projection Straightlined *	County's 2023 Projection	Actuals 2023	State EDR 2022 Projection Straightlined *	County's 2022 Projection	Actuals 2022	Actuals 2021
BOY	\$290,732,361	\$290,732,361	\$290,732,361	\$226,821,943	\$226,821,943	\$226,821,943	\$173,000,609
Oct	\$295,416,432	\$296,370,595	\$294,991,249	\$231,352,441	\$231,515,310	\$230,665,218	\$176,417,554
Nov	\$300,100,502	\$302,008,829	\$299,092,473	\$235,882,939	\$236,208,677	\$234,614,208	\$179,767,028
Dec	\$304,784,573	\$307,647,063	\$307,492,311	\$240,413,437	\$240,902,044	\$242,347,634	\$185,628,087
Jan	\$309,468,644	\$313,285,297	\$311,773,147	\$244,943,935	\$245,595,411	\$246,260,610	\$189,094,044
Feb	\$314,152,715	\$318,923,531	\$316,249,631	\$249,474,432	\$250,288,778	\$250,342,140	\$192,467,433
Mar	\$318,836,785	\$324,561,765	\$324,891,795	\$254,004,930	\$254,982,145	\$258,706,447	\$198,814,528
Apr	\$323,520,856	\$330,199,999		\$258,535,428	\$259,675,512	\$263,179,622	\$202,841,586
May	\$328,204,927	\$335,838,233		\$263,065,926	\$264,368,879	\$267,470,408	\$206,775,862
Jun	\$332,888,998	\$341,476,467		\$267,596,424	\$269,062,246	\$275,034,484	\$212,965,332
Jul	\$337,573,068	\$347,114,701		\$272,126,922	\$273,755,612	\$279,374,282	\$216,998,992
Aug	\$342,257,139	\$352,752,935		\$276,657,419	\$278,448,979	\$283,600,235	\$220,555,946
Sept	\$346,941,210	\$358,391,169		\$281,187,917	\$283,142,346	\$290,732,361	\$226,821,943

Save Our Indian River Lagoon - FY 2023

Monthly Financial Statement

Date Range 01 October 2022 – 02 June 2023

Fund 1260

*Total Assigned YTD-Year to Date, includes all stages of accounting for expenditures, with data derived from Systems, Applications and Products program

Revenues	Budget	Total Assigned YTD*	% Earned
Taxes	\$ 58,146,715	\$ 34,159,434	58.75%
Interest Earned	\$ 2,314,053	\$ 4,136,827	178.77%
Other Federal Grants	\$ 5,575,033	\$ -	0.00%
Federal Grants Hurricane Irma	\$ 1,357,269	\$ -	0.00%
Other State Grants	\$ 13,581,553	\$ 186,358	1.37%
State Grants Hurricane Irma	\$ 226,212	\$ -	0.00%
Tourism Development Council Grants	\$ 81,428	\$ -	0.00%
Other Physical Environment Grants	\$ 338,713	\$ -	0.00%
American Rescue Plan Act (ARPA)	\$ 6,939,644	\$ 1,261,798	18.18%
Statutory Reduction	\$ (3,865,175)	\$ -	0.00%
Balance Forward	\$ 242,351,863	\$ 247,253,609	102.02%
Total	\$ 327,047,308	\$ 286,998,025	87.75%

Expenditures (Roll-Up)	Budget	Total Assigned YTD*	Actuals
Compensation & Benefits	\$ 1,355,722	\$ 1,189,904	\$ 665,081
Operating Expenses	\$ 297,896	\$ 150,281	\$ 86,394
Capital Outlay	\$ 118,893	\$ 80,855	\$ 12,616
SOIRL Projects funded under Operating Expenses (Non-Capital County Project & Programs)	\$ 4,048,387	\$ 1,382,693	\$ 440,253
SOIRL Projects funded under Capital Improvement (County Projects over \$35K)	\$ 82,924,179	\$ 26,162,749	\$ 9,944,827
SOIRL Projects funded under Aid to Gov't Agencies (Cities & Water Management Districts)	\$ 74,449,801	\$ 25,023,700	\$ 1,046,778
SOIRL Projects funded under Aid to Private Organizations (Property Owners & Non-Government Organizations)	\$ 49,416,847	\$ 3,339,486	\$ 1,797,397
Contingency	\$ 18,502,590	\$ -	\$ -
Reserves (for approved projects scheduled beyond this fiscal year)	\$ 95,932,993	\$ -	\$ -
Total	\$ 327,047,308	\$ 57,329,668	\$ 13,993,347

Committee on Environment and Natural Resources

CS/CS/HB 1379 — Environmental Protection

by Infrastructure Strategies Committee; Water Quality, Supply, and Treatment Subcommittee; and Reps. Steele, Overdorf, and others (CS/CS/SB 1632 by Fiscal Policy Committee; Environment and Natural Resources Committee; and Senators Brodeur and Avila)

The bill is related to environmental protection. The major topics in the bill include wastewater treatment, onsite sewage treatment and disposal systems (OSTDSs), sanitary sewer services, basin management action plans (BMAPs), the wastewater grant program, the Indian River Lagoon (IRL), and the acquisition of state lands. The bill provides the following:

Acquisition of state lands

- Appropriates \$100 million annually to the Department of Environmental Protection (DEP) for the acquisition of land under the Florida Forever Act.
- Raises the property value threshold for when two appraisals of a parcel are required from \$1 million to \$5 million.
- Reduces the types of land purchases that must be approved by the Board of Trustees of the Internal Improvement Trust Fund.
- Allows DEP to acquire parcels for the full value of that parcel as determined pursuant to the highest approved appraisal.
- Requires DEP and the Department of Agriculture and Consumer Services (DACS) to disclose otherwise confidential appraisal reports to private landowners or their representatives during negotiations for the acquisition of state lands or conservation easements.

Advanced waste treatment

- Requires sewage disposal facilities to provide advanced waste treatment before discharging into certain impaired waters by January 1, 2033.
- Requires that, for waters that become impaired after July 1, 2023, sewage disposal facilities must provide advanced waste treatment within 10 years of the designation.

OSTDSs

- Prohibits new OSTDSs within a BMAP, reasonable assurance plan, or pollution reduction plan where sewer is available. On lots one acre or less where sewer is not available, new OSTDSs must be an enhanced system or other treatment system that achieves at least 65 percent nitrogen reduction.
- Encourages local government agencies that receive grants or loans from DEP for connecting OSTDSs to sewer systems to notify owners of OSTDSs that such funding is available and provide this information online.
- For BMAPs that include an Outstanding Florida Spring, the bill expands the area for which an OSTDS remediation plan is required from a “priority focus area” to the entire BMAP.

Sanitary sewer services

- Requires local governments to consider the feasibility of providing sanitary sewer services for developments of more than 50 residential lots that have more than one OSTDS per acre within a 10-year planning horizon (not required for rural areas of opportunity).
- Requires local governments to update their comprehensive plans to include the sanitary sewer planning element by July 1, 2024.
- Requires local governments that are subject to a BMAP (or located within the basin of waters not meeting applicable nutrient-related water quality standards) to provide DEP with an annual update on the status of the construction of sanitary sewers to serve such areas.

Wastewater grant program

- Expands the areas/types of waterbodies that are eligible to receive funding.
- Expands the types of projects that are eligible for grants to include additional wastewater projects, stormwater projects, and regional agricultural projects (retitling the grant program to the “water quality improvement grant program”).
- Removes the requirement that each grant have a minimum 50 percent local match of funds, but allows DEP to consider percent cost-share identified by an applicant (except for rural areas of opportunity) when prioritizing projects.
- Requires DEP to coordinate with local governments, stakeholders, and DACS to identify and prioritize the most effective and beneficial water quality improvement projects.

IRL

- Establishes the IRL Protection Program, consisting of the Banana River Lagoon BMAP, the Central Indian River Lagoon BMAP, the North Indian River Lagoon BMAP, and the Mosquito Lagoon Reasonable Assurance Plan.
- Sets forth requirements for the program, including evaluation of the BMAP, identification and prioritization of projects, and water quality monitoring.
- Prohibits new OSTDSs (unless previously permitted) within the IRL Protection Program area beginning January 1, 2024, where a central sewerage system is available. For new developments where sewer is not available, only enhanced nutrient-reducing OSTDSs will be authorized.
- Requires any commercial or residential property with an existing OSTDS located within the IRL Protection Program area to connect to central sewer or upgrade to an enhanced nutrient-reducing OSTDS or other wastewater treatment system that achieves at least 65 percent nitrogen reduction by July 1, 2030.

BMAPs

- Requires BMAPs to include five-year milestones for implementation and water quality improvement.
- Requires entities that have a specific pollutant load reduction requirement to submit to DEP a list of projects that will be undertaken to meet the five-year milestones.

- Requires DEP to coordinate with DACS and owners of agricultural operations in a BMAP to identify a list projects that will reduce pollutant loads for agricultural nonpoint sources.
- Requires local governments to include in their comprehensive plans a list of projects necessary to achieve pollutant load reductions attributable to the local government as part of a BMAP.

If approved by the Governor, or allowed to become law without the Governor's signature, these provisions take effect July 1, 2023, unless otherwise provided.

Vote: Senate 40-0; House 116-0

LET'S BE CLEAR...

THE HEALTH OF THE LAGOON IMPACTS YOU.

Lagoon Loyal™ is a new program that rewards Brevard County residents for taking actions that benefit the Indian River Lagoon.

1. SIGN UP

Create your free Lagoon Loyal account.



KNOW WHEN TO FERTILIZE.

Honor the fertilizer ban during our rainy season: Jun 1 – Sep 30. Heavy rains can flush fertilizer off your grass and into the lagoon.



ADJUST SPRINKLERS BEFORE RAIN.

Excess irrigation leads to water runoff, which can introduce harmful pollutants into the lagoon.



PUT TRASH IN ITS PLACE.

Litter left on roadways can be carried to storm drains and into the lagoon – impacting our wildlife and our wallets.



PICK UP AFTER YOUR PET.

When pet waste is left on the ground, harmful bacteria can enter the lagoon through storm drains and ditches.



SCHEDULE A SEPTIC INSPECTION.

Malfunctioning septic systems can reduce your property value, create health concerns and harm lagoon aquatic life.



BLOW GRASS CLIPPINGS BACK INTO THE LAWN.

When grass clippings are left in the street, rain can wash them into storm drains and the lagoon, contributing to the accumulation of muck.



WASH YOUR CAR OVER YOUR LAWN.

Your lawn acts like a filter to keep harmful suds and dirt off the street and out of the lagoon.

COMMUNITY-WIDE EFFORTS FOR A HEALTHY LAGOON

Brevard County residents have reported hundreds of ways they've personally reduced excess nutrient pollution from entering our beloved waterway. Keep up the great work!



3083

Total Lagoon Loyal Actions Completed



97

Total Lagoon Loyal Businesses



What is the Save Our Indian River Lagoon Program?

The Indian River Lagoon is one of our priceless natural resources that we have neglected for decades. We fund projects that improve the health, productivity, appeal and economic value of our lagoon.

Where does the funding come from?

Brevard County citizens passed a ½ cent sales tax in November 2016 by more than 60% of the votes, which provides funding for these projects.

What does the program do for the Indian River Lagoon?

- Reduce pollution
- Remove legacy loads of pollution
- Restore natural ecosystems
- Respond to new information

Why is the plan good for YOU?

The program provides homeowners funding for septic upgrades/conversions and sewer lateral repair/maintenance. Check your eligibility online.

★ = Completed Project!

72 Community
Projects
Completed!

164 Home
Owner Projects
Completed!

2023 Save Our Indian River Lagoon Project Status

as of December 31, 2022

178,579 lbs/year
of nitrogen load
reduced

12,000 lbs/year of
phosphorus load
reduced

Public Education & Engagement



Budget: \$3,530,000
TN Reduction: 33,709 lbs/year
Average Cost/lb TN: \$105
Projects Completed: 1
Projects in Construction: 4
Projects in Design: 0

WWTF Upgrades for Reclaimed Water



Budget: \$27,617,223
TN Reduction: 73,959 lbs/year
Average Cost/lb TN: \$383
Projects Completed: 2
Projects in Construction: 2
Projects in Design: 2

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 Design: 0

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 Design: 0

Smoke Testing/ Sewer Lateral Repairs



Budget: \$1,454,498
TN Reduction: 5,196 lbs/year
Average Cost/lb TN: \$235
Projects Completed: 3
Projects in Construction: 1
Projects in Design: 0

Septic to Sewer by Extension



Budget: \$120,100,160
TN Reduction: 95,381 lbs/year
Average Cost/lb TN: \$1,256
Projects Completed: 3
Projects in Construction: 8
Projects in Design: 21

Septic to Sewer by Quick Connects



Budget: \$11,200,379
TN Reduction: 21,446 lbs/year
Average Cost/lb TN: \$522
Home owner projects
Projects Completed: 46
Contracted Projects: 64

Septic Upgrades



Budget: \$29,243,590
TN Reduction: 37,981 lbs/year
Average Cost/lb TN: \$770
Home owner projects
Projects Completed: 118
Contracted Projects: 249

Stormwater Projects



Budget: \$65,721,812
TN Reduction: 282,678 lbs/year
Average Cost/lb TN: \$242
Projects Completed: 38
Projects in Construction: 2
Projects in Design: 8

Aquatic Vegetation Harvesting



Budget: \$2,200,496
TN Reduction: 29,691 lbs/year
Average Cost/lb TN: \$68
Projects Completed: 4
Projects in Construction: 1
Projects in Design: 2

Muck Removal & Interstitial Treatment



Budget: \$160,387,061
TN Reduction: 702,036 lbs/year
Projects Completed: 4
Projects in Construction: 2
Projects in Design: 9

Oyster Bars



Budget: \$9,809,545
TN Reduction: 24,699 lbs/year
Average Cost/lb TN: \$397
Projects Completed: 8
Projects in Construction: 6
Projects in Design: 0

Planted Shorelines



Budget: \$130,455
TN Reduction: 544 lbs/year
Average Cost/lb TN: \$240
Projects Completed: 6
Projects in Construction: 1
Projects in Design: 1

Clam Restoration



Budget: \$60,000
TN Reduction: 1,000 lbs/year
Average Cost/lb TN: \$60
Projects Completed: 0
Projects in Construction: 1
Projects in Design: 0

2017–2022 Revenue = \$299.1M

2017–2022 Expenditures = \$57.8M

Save
our
LAGOON

\$258.3M in more projects underway!

