

Brevard County
Save Our Indian River Lagoon Project Plan
Citizen Oversight Committee

July 15, 2022 – 8:30 to 11:30 am
Brevard County Government Center
2725 Judge Fran Jamieson Way
Building C, 3rd Floor, Florida Room
Viera, Florida 32940 and On-line via Zoom Conference

- I. Call to Order
- II. Roll Call
- III. Acceptance of Virtual Votes
- IV. Approval of the Agenda
- V. Approval of Minutes
- VI. Progress and Fiscal Reports
 - a. Monthly Progress Report – Virginia Barker, Director
 - b. Monthly Revenue Graph & Financial Statement – Crystal Melton, Finance Manager
- VII. Other Reports and Special Presentations
 - a. Outreach Story Maps & Newsletter – Brandon Smith, Environmental Specialist III
 - b. Oyster Material Testing – Dr. Jenny Hansen, Environmental Scientist
 - c. Project Videos – Derelict Vessel Removal & 2022 Lagoon Water Clarity Conditions
- VIII. Old Business
- IX. New Business
 - a. 2023 Plan Update Schedule
 - b. 2023 Cost Share Eligibility by Project Type
 - c. Cove Condominium Sewer Connection Funding Request
- X. General Public Comments
- XI. Final Comments by Chair and Committee Members
- XII. Adjournment

**Save Our Indian River Lagoon
Citizen Oversight Committee Meeting Minutes**

May 20, 2022 – 8:30 a.m.

2725 Judge Fran Jamieson Way, Bldg. C, 3rd Floor,
Florida Room and On-Line via Zoom Conference
Viera, FL 32940

Members Present:

Expertise	Member	Present	Alternate	Present
Science	Lorraine Koss	Yes	Charles Venuto	Yes
Technology	Vinnie Taranto - Chair	Yes	David Sherrer	Yes
Education	Stephany Eley	Yes	Kimberly Newton	Yes
Finance	Courtney Barker	Yes	Todd Swingle	Yes
Tourism	David Lane Vice-Chair	Yes	Laurilee Thompson	Yes
Real Estate	Susan Hodgers	Yes	Eric Mannes	Yes
Lagoon Advocacy	John Windsor	Yes	Terry Casto	Yes

Staff Present:

Virginia Barker, Brevard County Natural Resources Management Director
Sarah Beazley, Assistant County Attorney
Terri Breeden, Environmental Section Supervisor
Brandon Smith, Environmental Specialist III
Anthony Gubler, Environmental Specialist I
Matt Badolato, Associate Environmental Specialist
Beb Sebastian, Associate Environmental Specialist
Crystal Melton, Department Finance Manager
Walker Dawson, Engineer III
Courtney Maier, Engineer I
Jenny Hansen, Environmental Scientist
Carol Gerundo, Executive Secretary

I. Call to Order

II. Roll Call

III. Acceptance of Virtual Votes

Courtney Barker moved to allow Committee Members, who were attending online via Zoom, to vote virtually; seconded by Lorraine Koss.

There was no public comment for the motion. Motion was unanimously approved.

IV. Approval of the Agenda

John Windsor moved to approve the Agenda as written; Seconded by Courtney Barker. There was no public comment for the motion. Motion was unanimously approved.

V. Approval of April 2022 Minutes and Approval of Amended November 2021 Minutes

John Windsor moved to approve the Minutes as written; seconded by Courtney Barker.

Discussion regarding clarification of the April 2022 minutes ensued. It was noted that under New Business, Item IX.a., Legislative Session – Open Session, 2nd paragraph, the verbiage, “*which included the following*”; should be added at the end of sentence beginning 3) \$71 million for local initiatives for Brevard.

There was much discussion on the Amended November 2021 Minutes with regard to the Form 8B’s that were turned in late. Ms. Beazley responded to the Committee’s questions.

Discussion regarding changes to the way the meeting minutes are written and posted to the website ensued. Chair Taranto mentioned that the motion on the floor was for the approval of the April 2022 Minutes and approval of the Amended November 2022 Minutes. It was noted that if the Committee desired, discussion on the way minutes are written and a motion for any changes can be made after the vote for the current motion.

Courtney Barker moved to approve the amended motion as follows: 1) update verbiage in the April 2022 minutes, under New Business IX.a., Legislative Session – Open Session, as discussed; and 2) approve the Amended November 2021 minutes as written; Seconded by Lorraine Koss.

Public comments for the motion were heard. The motion was approved with Susan Hodggers voting in opposition.

Chair Taranto inquired whether there was a motion regarding how the minutes are written.

Susan Hodggers moved to change the way minutes are written to capture what was said in questions to the County Attorney; seconded by Lorraine Koss. Discussion ensued.

There was no public comment for the motion.

Motion failed with Committee Members voting as follows: Susan Hodggers – Aye, Vinnie Taranto – Nay, David Lane – Nay, John Windsor – Nay, Courtney Barker – Nay, Stephany Eley – Nay, Lorraine Koss – Nay.

VI. Progress and Fiscal Reports

a. Monthly Progress Report – Virginia Barker, Director

The Monthly Progress Report was given by Virginia Barker.

Discussion ensued. Virginia Barker, Matt Badolato, and Jenny Hansen responded to the Committee's questions.

b. Monthly Revenue Graph – Crystal Melton, Finance Manager

Crystal Melton reported on the Monthly Revenue Graph.

Discussion ensued. Crystal Melton, Virginia Barker and Sarah Beazley responded to the Committee's questions.

c. Monthly Financial Statement Crystal Melton, Finance Manager

Crystal Melton reported on the Monthly Financial Statement.

Discussion ensued. Crystal Melton, Virginia Barker, and Jenny Hansen responded to the Committee's questions.

d. Quarterly Save Our Indian River Lagoon Project Performance Table Update – Terri Breeden, Environmental Section Supervisor

Terri Breeden gave an update on the Quarterly Save Our Indian River Lagoon Project Performance Table, January 1 – March 31, 2022. Highlights included; 1) Palm Bay North Reclamation Facility Project; 2) Sewer Lateral Projects; 3) Septic Removal – County Projects, Septic Upgrades and Quick Connects; 4) Basin 62 and Basin 26 Denitrification Projects; 5) City of Melbourne Grant Place Baffle Box, 6) City of Cocoa Lakemont Ponds Vegetation Harvesting; 6) Brevard County Horseshoe Pond Vegetation Harvesting; 7) City of Cocoa Beach Phase II Muck Dredging Project; 8) Brevard Zoo Oyster Bars Project – Ryckman Park; and, 9) Overview.

Discussion ensued.

VII. Other Reports and Special Presentations

a. My Lagoon Story Video – Eric Mannes

A video, My Lagoon Story, featuring Eric Mannes was shown.

(10-minute break)

b. Introduction to the Remote Sensing of Harmful Algal Blooms in the Indian River Lagoon Project – Dr. Claudia Listopad, President, Principal Scientist and Andrew Kameronosky, Environmental Scientist, Applied Ecology, Inc.

Dr. Listopad and Mr. Kameronosky gave a power point presentation entitled, Introduction to the Remote Sensing of Harmful Algal Blooms in the Indian River Lagoon Project. Topics included; 1) Florida Department of Environmental Protection funded innovative grant project focusing on new technology; 2) Indian River Lagoon Surface Water Quality Stations; 3) Recent Harmful Algal Bloom History; 4) Innovative Grant Objectives; 5) Data Sources; 6) Phase I – Calibration and Validation of Maps, Identify locations of history of Harmful Algal Bloom Activity, and Development of a Rapid Harmful Algal Bloom identification process - weekly updates; 7) Phase 2 – Characterize the Spectral Profiles of Water Column and Benthic Conditions Throughout the Indian River Lagoon; 8) Harris Aerial Hx8 Carrier drone; 9) Urban Imagery, Estuarine Imagery, and Benthic Profiles using Hyperspectral Imagery; 10) Phase 3 – Development of Indian River Lagoon Spectral Library; 11) Understanding Harmful Algal Bloom Species; and, 12) Project Timeline.

Discussion ensued. Dr. Listopad responded to the Committee's questions.

c. Historical Patterns and Trends of Chlorophyll-a in Brevard County's Indian River Lagoon using Satellite Data – Dr. Claudia Listopad, President, Principal Scientist and Andrew Kameronosky, Environmental Scientist, Applied Ecology, Inc.

Dr. Listopad and Mr. Kameronosky gave a power point presentation entitled Historical Patterns and Trends of Chlorophyll-a in Brevard County's Indian River Lagoon Using Satellite Data. Topics included: 1) Historical Activity Analysis, Sentinel 2 and 3 Calibration with Chlorophyll-a Data; 2) Workflow; 3) Calibration Regions; 4) Available Scenes Over the Indian River Lagoon; 5) Results for Calibration; 6) Historical Spatio-Temporal Analysis; 7) Time-Series Cluster Analysis Results; and, 8) Next Steps.

Discussion ensued. Dr. Listopad, Mr. Kameronosky and Virginia Barker responded to the Committee's questions.

John Windsor moved to extend the meeting for thirty (30) minutes; seconded by Lorraine Koss.

There was no public comment for the motion. Motion was unanimously approved.

d. Winds and Topographic Controls on the Connectivity in the Northern Indian River Lagoon – Dr. Mingshun Jiang, Associate Research Professor, Harbor Branch Oceanographic Institute, Florida Atlantic University

Dr. Mingshun Jiang gave a power point presentation entitled Winds and Topographic Controls on the Connectivity in the Northern Indian River Lagoon. Topics included: 1) Numerical modeling and particle tracking; 2) Introduction – Numerical modeling as a tool; 3) Model descriptions; 4) Model Performance Evaluation; 5) Particle Tracking; 6) Banana River Example; 7) Northern Indian River Lagoon; 8) Mosquito Lagoon; and, 9) Summary.

Discussion ensued. Dr. Jiang responded to the Committee's questions.

Lorraine Koss moved to extend the meeting for thirty (30) minutes; seconded by Susan Hodgers.

There was no public comment for the motion. Motion was unanimously approved.

e. Brevard County Half-Cent Sales Surtax – Save Our Indian River Lagoon Fiscal Year 2020 Internal Audit Report – Jill Reyes, Partner, RSM US and Rob Broline, Partner, CRI.

Ms. Reyes mentioned that Jamie Bardee was present since Rob Broline was unable to attend. Ms. Reyes gave a power point presentation entitled Brevard County Half-Cent Sales Surtax – Save Our Indian River Lagoon Fiscal Year 2020 Internal Audit Report. Highlights included: 1) Transmittal Letter – Timeline; 2) Executive Summary, Background, Objectives and Approach; 3) Results of 100% of the Collections Testing – No exceptions were noted in the testing, and Results of Expenditures Testing – No exceptions were noted in the testing; 4) FY 2020 Impacts of COVID-19 – County collected approximately 0.5% less surtax funds than originally budgeted in FY 2020. 5) Procurement; and, 6) Appendices – Ordinance 2016-15, Save Our Indian River Lagoon Committee makeup, Project Plan and Process Map.

Discussion ensued. Ms. Reyes responded to the Committee's questions.

VIII. Old Business

None.

IX. New Business

None.

X. General Public Comments

General public comments were heard.

Save Our Indian River Lagoon Citizen Oversight Committee Meeting
MINUTES – May 20, 2022

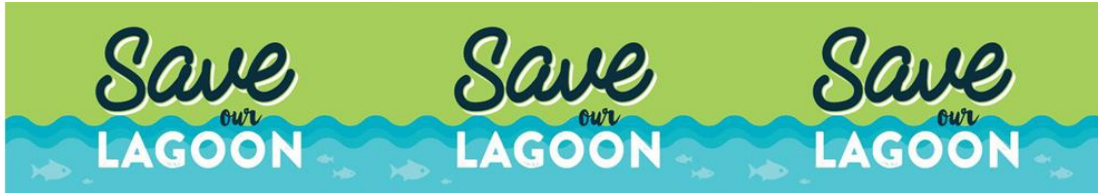
Lorraine Koss moved to extend the meeting for ten (10) minutes; seconded by Laurilee Thompson (as alternate for David Lane who was no longer present).

There was no public comment for the motion. Motion was unanimously approved.

XI. Final Comments by Chair and Committee Members

Final Comments were heard.

XII. Adjournment



Save Our Indian River Lagoon Project Plan July 2022 Progress Report

WORK COMPLETED THIS MONTH:

- Septic Upgrades - 8 reimbursements processed since June for a total of 79 completed to date; 204 homeowner cost-share agreements executed
- Quick Connects to Sewer - 40 reimbursements processed to date; 56 homeowner cost-share agreements executed
- University of Central Florida provided an assessment of filter feeder recruitment across 10 monitored oyster bars finding the presence of ribbed mussels, barnacles, ascidians, and encrusting bryozoans and sponges at all locations enhancing the natural filtration capacity of the oyster bars.
- Video Completed – Lagoon Clarity Video

WORK UNDERWAY THIS MONTH:

- City of Melbourne Grant St Water Reclamation Facility - awaiting site plan approval before going to bid
- South Central C Septic-to-Sewer – construction 35% complete as of mid-June; 82 of 140 homeowner connection grants contracted
- Smoke Testing - Barrier Island complete; Barefoot Bay service area underway; Merritt Island next
- Micco Septic-to-Sewer – adding the Micco Road spur to the project
- South Beaches O Septic-to-Sewer – Notice of Award sent to contractor; contracting in progress
- Survey, design and engineering continues for 13 Brevard County septic-to-sewer projects
- Sykes Creek M & T - Design task orders routed for signature
- Sykes Creek N – in permitting; design being updated to address Right-of-Way permit requirements
- Plumbing Services - Request for Qualifications drafted
- City of Melbourne Grant Place Baffle Box - under construction
- Basin 79/Scottsmoor C & Basin 89/Scottsmoor I Stormwater Treatments – Awarded for construction but awaiting material supply delivery confirmations to determine the construction start date
- Basin 958 Pioneer Rd – Negotiating Grant Agreement with St Johns River Water Management District
- Basin 1066 Angel Ave – Consultant is updating Task Order with adjustments for Public Works' needs
- Basin 1398 Sand Dollar – Scheduling a design meeting with consultant
- Basin 71 Flounder Creek – Awaiting updated plans with wrapped bio-activated media
- Sykes Creek Phase 1 Muck Dredging – Dredge Material Management Area construction still in progress
- Grand Canal Muck Dredging – Removed a total of 193,000 cubic yards to date
- Merritt Island D2 Muck Dredging - [30% design plans for the Nandivada site have been submitted](#)
- Canaveral South Muck Dredging - Muck thickness contours and volume calculations complete.
- City of Cocoa Beach McNabb oyster bar – deployment underway
- Brevard County Seagrass Restoration Protocol – addressing comments from collaborating agencies
- Video progress – McNabb Oyster Prisms Filmed, awaiting edits; Smoke testing scheduled for August
- Contracts: Satellite Beach Lori Laine Project under review; Rockledge Equalization Basin Project, and West Melbourne's Lake Ashley Circle and Dundee/Manor Place Project out for signature



PRESENTATIONS THIS MONTH:

June 17 – Cocoa Beach Friday Fest – Brandon

June 23 – Brevard Indian River Lagoon Coalition – Straight Talk – Anthony & Brandon

UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS:

July 12 – Marine Resources Council – [Lunch & Learn: Sampsons Island Submerged Lands Restoration Update](#)

July 21 – Ocean Research and Conservation Association – [Lab Technique Training: Pipetting & Dilutions](#)

July 27 – Ocean Research and Conservation Association – [Lab Technique Training: Particle Analysis](#)

August 2 – Ocean Research and Conservation Association – [Fish Monitoring and Processing Training](#)

UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES:

July 21 – Ocean Research and Conservation Association – Fish Processing, email [Bridget](#) to register

July 23 – Keep Brevard Beautiful – [Summer Series Cleanup: Kelly Park](#)

September 17 – [International Coastal Cleanup](#)

Brevard Zoo Restore Our Shores [Clam Restoration Project seeking volunteers](#)

Marine Resources Council Super Clam monitoring seeking volunteers – [Email Caity Savoia to register](#)

Rotary Park rain garden maintenance – [Email Carlos Cuevas for opportunities](#)

Storm drain marking in Cocoa – [Email Carlos Cuevas for opportunities](#)

Storm drain marking in Melbourne – [Email Bri Forte for opportunities](#)

WEBSITE AND SOCIAL MEDIA LINKS:

[Lagoon Loyal Outreach and Engagement Landing Page](#)

[Save Our Indian River Lagoon Website](#)

[Save Our Indian River Lagoon Facebook](#)

[Save Our Indian River Lagoon Instagram](#)

[Save Our Indian River Lagoon YouTube](#)

FUTURE TOPICS FOR SPECIAL PRESENTATIONS:

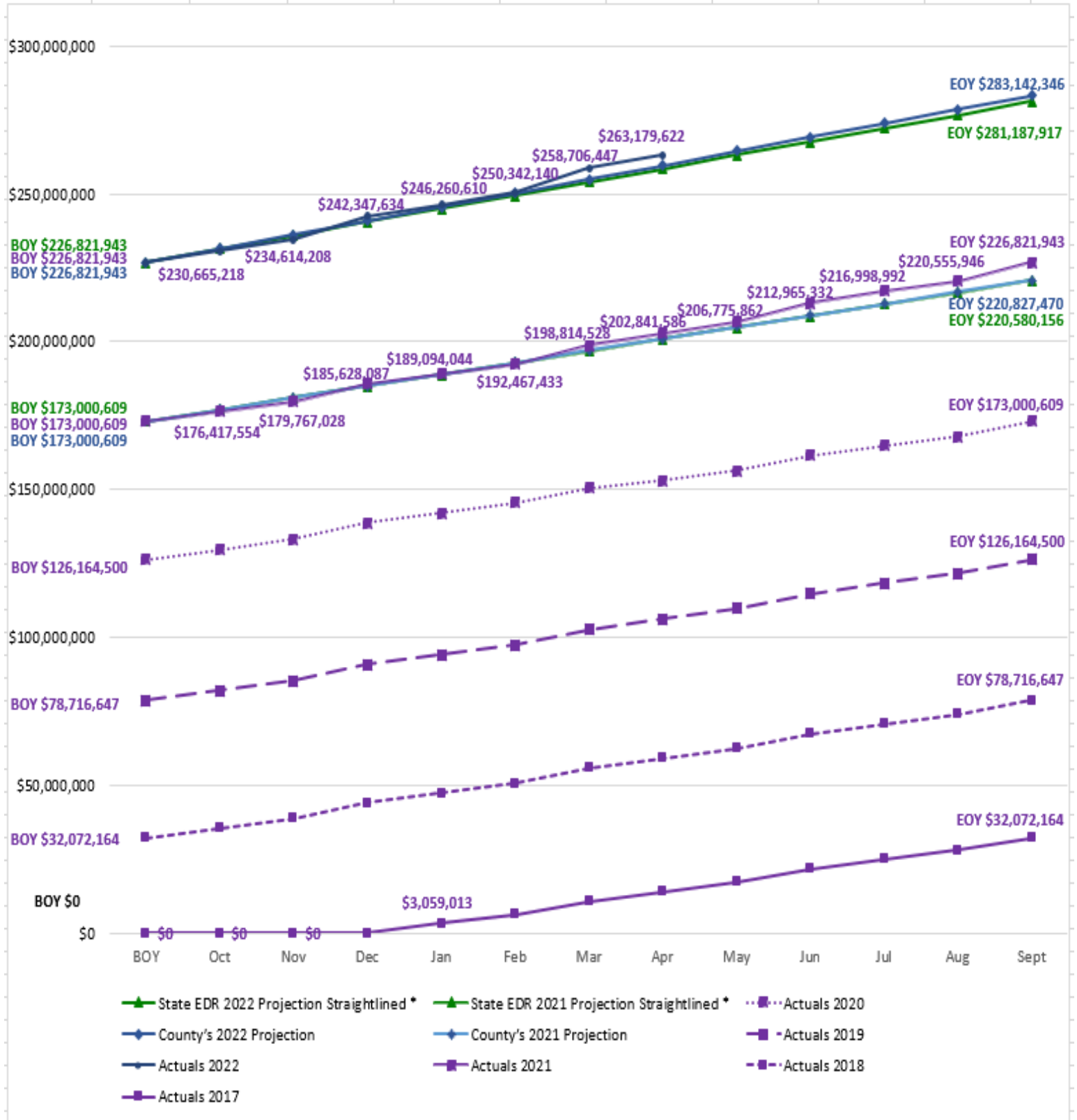
1. Low Impact Development/Resilience – Local examples, efforts, and potential opportunities
2. Bio-Activated Media Performance and Maintenance Requirements
3. Stormwater Treatment Purpose, Design, and Performance
4. Shoreline Armor and Living Shoreline Permitting Authorities, Rules, and Opportunities
5. Surface Water Remediation Technologies
6. Nutrient Loading Impacts of Reclaimed Water
7. Project Performance Measurement Results
8. Lagoon Projects - managed and funded by other agencies, entities or grant programs
9. Indian River Lagoon Research News: Conference, Symposium or Assembly Highlights
10. Lagoon Fish and Fisheries Research – Dr. Grant Gilmore
11. Clam Restoration and Aquaculture Stimulus Projects
12. Microplastics and Herbicides in the Lagoon
13. Soil Guardians Program – Sally Scalera
14. Outreach and Engagement – County, Cities, non-profit organizations
15. Oyster Histories in Brevard County - UCF
16. Isotope Studies
17. Titusville Causeway Breakwater

Save Our Indian River Lagoon Revenues Cumulative Graph

Fiscal Year 16-17 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 16-17 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 16-17 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 16-17 to Current Fiscal Year Table

Month	State EDR 2022 Projection Straightlined *	County's 2022 Projection	Actuals 2022	State EDR 2021 Projection Straightlined *	County's 2021 Projection	Actuals 2021
BOY	\$226,821,943	\$226,821,943	\$226,821,943	\$173,000,609	\$173,000,609	\$173,000,609
Oct	\$231,352,441	\$231,515,310	\$230,665,218	\$176,965,571	\$176,986,181	\$176,417,554
Nov	\$235,882,939	\$236,208,677	\$234,614,208	\$180,930,533	\$180,971,752	\$179,767,028
Dec	\$240,413,437	\$240,902,044	\$242,347,634	\$184,895,496	\$184,957,324	\$185,628,087
Jan	\$244,943,935	\$245,595,411	\$246,260,610	\$188,860,458	\$188,942,896	\$189,094,044
Feb	\$249,474,432	\$250,288,778	\$250,342,140	\$192,825,420	\$192,928,467	\$192,467,433
Mar	\$254,004,930	\$254,982,145	\$258,706,447	\$196,790,382	\$196,914,039	\$198,814,528
Apr	\$258,535,428	\$259,675,512	\$263,179,622	\$200,755,345	\$200,899,611	\$202,841,586
May	\$263,065,926	\$264,368,879		\$204,720,307	\$204,885,183	\$206,775,862
Jun	\$267,596,424	\$269,062,246		\$208,685,269	\$208,870,754	\$212,965,332
Jul	\$272,126,922	\$273,755,612		\$212,650,231	\$212,856,326	\$216,998,992
Aug	\$276,657,419	\$278,448,979		\$216,615,194	\$216,841,898	\$220,555,946
Sept	\$281,187,917	\$283,142,346		\$220,580,156	\$220,827,470	\$226,821,943

Month	Actuals 2020	Actuals 2019	Actuals 2018	Actuals 2017
BOY	\$126,164,500	\$78,716,647	\$32,072,164	zero
Oct	\$129,590,162	\$81,926,390	\$35,300,032	zero
Nov	\$133,089,868	\$85,225,970	\$38,647,632	zero
Dec	\$138,551,296	\$90,640,944	\$43,870,270	0
Jan	\$142,014,229	\$93,950,291	\$47,150,412	\$3,059,013
Feb	\$145,518,464	\$97,296,142	\$50,484,322	\$6,217,230
Mar	\$150,424,958	\$102,671,360	\$55,782,660	\$10,686,395
Apr	\$153,099,730	\$106,219,161	\$59,191,675	\$13,941,510
May	\$156,326,096	\$109,784,828	\$62,444,639	\$17,177,137
Jun	\$161,413,353	\$114,720,850	\$67,409,450	\$21,754,009
Jul	\$164,827,524	\$118,207,520	\$70,776,206	\$24,898,729
Aug	\$167,886,836	\$121,640,336	\$74,021,947	\$27,890,034
Sept	\$173,000,609	\$126,164,500	\$78,716,647	\$32,072,164

Save Our Indian River Lagoon - FY 2022

Monthly Financial Statement

Date Range 01 October 2021 – 06 July 2022

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	\$ 48,783,398	\$ 36,357,679	74.53%
Interest Earned	\$ 725,952	\$ 657,891	90.62%
Other Federal Grants	\$ 3,141,901		0.00%
Federal Grants Hurricane Irma	\$ 1,357,269		0.00%
Other State Grants	\$ 9,092,186	\$ 97,193	1.07%
State Grants Hurricane Irma	\$ 226,212		0.00%
Tourism Development Council Grants	\$ 96,843	\$ 7,004	7.23%
American Rescue Plan Act (ARPA)	\$ 5,278,700		0.00%
Statutory Reduction	\$ (3,171,192)		0.00%
Balance Forward	\$ 200,653,985		0.00%
Total	\$ 266,185,254	\$ 37,119,766	13.95%

Expenditures (Roll-Up)	Budget	Total Assigned YTD*	Actuals
Compensation & Benefits	\$ 904,819	\$ 847,018	\$ 510,926
Operating Expenses	\$ 199,645	\$ 179,210	\$ 145,361
Capital Outlay	\$ 29,500	\$ 1,948	\$ 1,948
SOIRL Projects funded under Operating Expenses (Non-Capital County Project & Programs)	\$ 4,460,822	\$ 2,288,383	\$ 924,018
SOIRL Projects funded under Capital Improvement (County Projects over \$35K)	\$ 67,555,863	\$ 17,465,686	\$ 4,614,950
SOIRL Projects funded under Aid to Gov't Agencies (Cities & Water Management Districts)	\$ 60,721,687	\$ 18,225,991	\$ 5,033,212
SOIRL Projects funded under Aid to Private Organizations (Property Owners & Non-Government Organizations)	\$ 51,603,559	\$ 2,962,425	\$ 790,700
Contingency	\$ 11,395,538		
Reserves (for approved projects scheduled beyond this fiscal year)	\$ 69,313,821		
Total	\$ 266,185,254	\$ 41,970,661	\$ 12,021,116



2023 Update of the Save Our Indian River Lagoon Project Plan Proposed Schedule

Agenda Item:

IX. a. New Business

Update Cost Share Eligibility

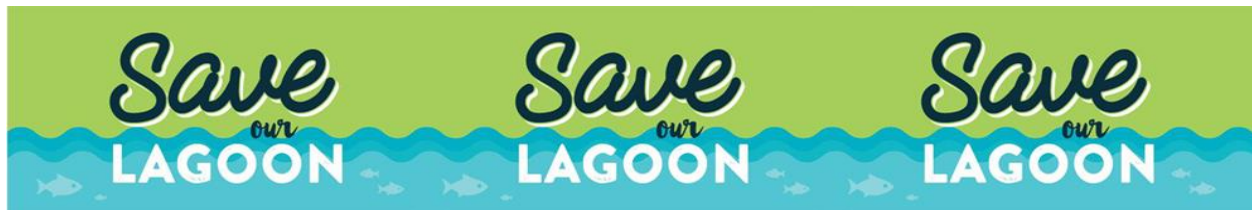
- 7/8 Include updated cost share eligibility in the Citizen Oversight Committee agenda packet
- 7/15 Citizen Oversight Committee votes on cost-share eligibility for next grant cycle
- 8/1 Post cost share eligibility and link to online funding applications

Project Submittal and Reviews

- 9/30 Applications due (*About 2 months after application posted*)
- 10/28 Staff review completed, all revisions done, packet sent to Committee for review
- 11/18 Citizen Oversight Committee review/recommendation for submitted projects
- 12/16 *Potential to cancel December meeting*

2023 Plan Update

- 12/16 Draft 2023 Project Plan Update posted and sent to Citizen Oversight Committee
- 1/20 Citizen Oversight Committee reviews/recommends 2023 Project Plan Update
- 2/7 or 14 County Commission reviews/approves 2023 Project Plan Update



**Save Our Indian River Lagoon
Citizen Oversight Committee
July 15, 2022**

Agenda Item:

IX. b. New Business

Title:

Proposed cost share eligibility by project type for projects proposed for the 2023 Save Our Indian River Lagoon Project Plan Update

Requested Action:

Motion to recommend offering the proposed cost shares to recruit project proposals for the 2023 Save Our Indian River Lagoon Project Plan Update

Summary Explanation and Background:

Draft cost shares are based on the average cost of each project type approved in the Save Our Indian River Lagoon Project Plan, as amended, with the following exceptions:

- The maximum cost share for Septic System Removal by Sewer Extension reflects the Board of County Commissioner’s approved rate of up to \$1500 per pound of nitrogen load reduction for septic to sewer projects.
- A maximum cost share for Septic Upgrades of \$1200 per pound of nitrogen load reduction as approved in 2022 update.
- Keeping the prior maximum cost share of \$110 for Vegetation Harvesting because the \$70 average cost in the plan reflects the economies of scale of the Melbourne Tillman project, which is not representative of typical project costs.
- Keeping the prior maximum cost shares offered for Stormwater Treatment Projects by location: \$313 on the Mainland, \$370 on Merritt Island and \$446 on the Beaches. The \$175 average cost in the plan reflects the economy of scale of the M1-Crane Creek Rediversion Project, which is not representative of typical project costs.

Project Category	Project Type	2022 Plan Estimated Total Project Costs	2022 Plan Nitrogen Reductions (lbs/yr)	2022 Plan Average Cost/Pound/Year	2023 Proposed Maximum Cost/Pound/Year
Reduce	Treatment Plant Upgrades for Reclaimed Water	\$26,766,195	69,823	\$383	\$383
Reduce	Sewer Lateral Smoke Testing for Rehabilitation	\$1,580,000	6,196	\$255	\$255
Reduce	Package Plant Connection	\$2,157,072	2,003	\$1500	\$1500
Reduce	Septic System Removal by Sewer Extension	\$119,686,296	95,816	\$1,249	\$1500
Reduce	Septic System Upgrades	\$29,233,106	37,981	\$770	\$1200
Reduce	Stormwater Projects	\$47,515,821	271,170	\$175	Average of \$350
Reduce	Vegetation Harvesting	\$1,410,709	20,274	\$70	\$110
Remove	Muck Removal	\$108,417,949	208,428	\$520	\$520
Remove	Treatment of Muck Interstitial Water	\$46,977,065	484,332	\$97	\$97
Restore	Oyster Bars	\$9,809,545	24,699	\$397	\$397
Restore	Planted Shorelines	\$130,560	544	\$240	\$240



**Save Our Indian River Lagoon
Citizen Oversight Committee
July 15, 2022**

Agenda Item:

IX. c. New Business

Title:

Package Plant Conversion to Central Sewer funding request from Mr. Ron Bockhold for the Cove Condominium, 1 Cove Road, Melbourne Beach

Requested Action:

Motion to recommend staff work with representatives of the Cove Condominium to submit a funding application to be considered by the Citizen Oversight Committee and County Commission for the 2023 Save Our Indian River Lagoon Project Plan Update to replace their package treatment plant with connection to County central sewer service

Summary Explanation and Background:

The Cove Condominium is currently treated by a private package treatment plant with effluent disposal to a drainfield. Nutrients and other pollutants entering this drainfield from approximately 40 families have the potential to leach through the sandy soils of the barrier island into the groundwater and migrate to the Indian River Lagoon.

In recognition of the nutrient loading potential of package treatment plants, the Save Our Indian River Lagoon Project Plan (Section 4.1.4) includes cost share for connecting three package plants to central sewer. Oak Point was added in the 2021 Plan Update in response to a cost share request from the Oak Point Mobile Home Park to dismantle their package plant and connect to central sewer. Two additional sites were identified in the 2022 Plan Update as high priority, cost-effective and potentially feasible package plants to replace with central sewer service.

As there is already an established process for providing cost share for the replacement of private package treatment plants with central sewer service, staff could assist the Cove with submitting a complete application during the August 1 - September 30, 2022 window for 2023 Plan Update funding requests. As was done for Oak Point, staff could investigate using Save Our Indian River Lagoon cost share and private partnership funds from the Cove to leverage grant funds from other agencies to assist the Cove with their total project costs. Additionally, staff could assess the feasibility of including service for nearby structures including 4 additional condominium units, a small motel, 5 homes, 2 apartment building and a restaurant seating 30-40 people. Staff could also initiate consultation with the Department of Interior on the conditions applicable to extending sewer service through land subject to the Coastal Barrier Resources Act.