

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

September 20, 2019 – 8:30 to 11:30 am
Brevard County Government Center
2725 Judge Fran Jamieson Way
Building C, 3rd Floor, Florida Room
Viera Florida 32940

- I. Call to Order
- II. Roll Call
- III. Approval of the Agenda
- IV. Approval of Minutes
- V. Monthly Progress and Fiscal Reports
 - a. September 2019 Progress Report – Virginia Barker
 - b. Revenue Graph – Crystal Melton
- VI. Other Reports and Special Presentations
 - a. Muck Research Updates - Dr. Austin Fox, Assistant Professor, Florida Institute of Technology
 - b. Save Our Indian River Lagoon Community Survey – Holly Abeels, University of Florida, Institute of Food and Agricultural Sciences, Sea Grant Extension Agent
 - c. Aquatic Weed Harvesting from Stormwater Ponds – Jennifer Thompson
 - d. A Message of Hope from Indian River Lagoon Water Quality Data - Matt Badolato
 - e. State Roads 528 and 520 Causeway versus Bridge Span Update – On September 12, 2019, the Governing Board of the Space Coast Transportation Planning Organization voted for a 6-month project hold for additional modeling to be completed by the St. Johns River Water Management District
- VII. Old Business
- VIII. New Business
- IX. General Public Comments
- X. Final Comments by Chair and Committee Members
- XI. Adjournment

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

August 16, 2019 – 8:30 a.m. – 11:30 a.m.
2725 Judge Fran Jamieson Way,
Bldg. C, 3rd Floor, Florida Room
Viera, FL 32940

Members Present:

Expertise	Member	Present	Alternate	Present
Science	Lorraine Koss	Yes	Charles Venuto	Yes
Technology	John Luznar	Yes	Vinnie Taranto	Yes
Education	Stephany Eley	Yes	Melissa Martin	Yes
Finance	Courtney Barker	Yes	Todd Swingle	No
Tourism	David Lane - Chair	No	Laurilee Thompson	Yes
Real Estate	Danielle Bowden	Yes	Dennis Basile	Yes
Lagoon Advocacy	John Windsor - Vice Chair	Yes	Terry Casto	No

Staff Present:

Virginia Barker, Brevard County Natural Resources Management Director
Christine Valliere, Brevard County Assistant County Attorney
Walker Dawson, Engineer III, Muck Dredging
Courtney Maier, Engineer I, Stormwater
Anthony Gubler, Environmental Specialist
Brandon Smith, Environmental Specialist
Crystal Melton, Fiscal Analyst

I. Call to Order

II. Roll Call

A quorum was established.

III. Approval of the Agenda

At the last meeting the motion to approve the Agenda was not recorded and there was a question as to who made the motion. It was noted that John Windsor moved to approve the Agenda at the July meeting; Seconded by Lorraine Koss and was unanimously approved.

Stephany Eley moved to approve the Agenda for the August 16, 2019 meeting with the above-mentioned changes to the approval of the July 19, 2019 meeting minutes; Seconded by Charles Venuto. Motion was unanimously approved.

IV. Approval of Minutes

See Item III. Approval of the Agenda (and minutes in a single motion) above.

V. Monthly Progress and Fiscal Reports – Virginia Barker, Director

a. **August 2019 Progress Report**

The Monthly Progress Report was given by Virginia Barker.

Discussion ensued. The Committee's questions were answered by Ms. Barker.

b. **Save Our Indian River Lagoon Project Performance Table – Brandon Smith**

The quarterly update of the Save Our Indian River Lagoon Project Performance Table was given. The update included: 1) Stormwater projects update by Courtney Maier; 2) Muck Dredging projects update by Walker Dawson; 3) Sewer projects update by Anthony Gubler; 4) Municipalities and Brevard Zoo projects update by Brandon Smith, Wayne Carragino, City of Cocoa Beach, and Dani Straub, City of Melbourne.

There was some discussion and the Committee's questions were answered by County Staff, Wayne Carragino and Dani Straub.

c. **Revenue Graph and Financial Statement – Crystal Melton**

Crystal Melton gave an update on the Revenue Graph and Financial Statement.

VI. Other Reports and Special Presentations

a. **Turkey Creek Watershed Video – Virginia Barker**

Brandon Smith showed a video of an Overview of the Turkey Creek Watershed and all of the projects and activities taking place. The video told the story of the sequencing of projects and the desire to make improvements in the upland to reduce nutrient pollution before the clean up is done and all of the things going on upstream that are working with the Turkey Creek project to keep new pollution out of the Lagoon.

b. **New Kilroy Station Data Feed <http://api.kilroydata.org/public/> - Walker Dawson.**

Walker Dawson presented an interactive webpage of the Continuous Water Quality Monitoring Stations throughout the Indian River Lagoon.

Discussion ensued. The Committee's questions were answered by Virginia Barker and Walker Dawson.

c. **State Roads 528 and 520 Causeway versus Bridge Span Update – Numerical Modeling Addendum Report by Dr. Gary Zarillo, Florida Institute of Technology, submitted to the Indian River Lagoon National Estuary Program and Canaveral Port Authority**

Virginia Barker provided a copy of Dr. Gary Zarillo's Numerical Model Flushing Experiments Addendum to the Report that was previously presented to the Committee. An update on State Roads 528 and 520

Causeway versus Bridge Span meetings and next steps was given by Virginia Barker.

Discussion ensued. The Committee's questions were answered by Virginia Barker.

d. **Lagoon Restoration Perspectives from a Waterman's Point of View- Captain Billy Rotne, Tail Hunter Charters and Captain Frank Catino, Mayor Satellite Beach**

Captain Frank Catino, Mayor of Satellite Beach, gave a presentation on Lagoon Restoration and his perspectives as a fishing guide. Captain Catino spoke about the importance of the Citizens Oversight Committee promoting positive changes in the Lagoon. Captain Catino mentioned that the area between the Pineda Causeway and Turkey Creek is the clearest it has been in years; however, the Sykes Creek area and Cocoa Beach islands have not shown much improvement.

Captain Catino showed several photographs of fish and seagrass in the lagoon system before and after the algae blooms.

Discussion ensued. The Committee's questions were answered by Captain Catino.

VII. Old Business

a. **Revised 2020 Cost Share Eligibility Table – Virginia Barker**

Virginia Barker mentioned that at the last month's meeting the Committee recommended an increase for the Palm Bay North Regional Water Reclamation Facility Project. It was noted that draft cost shares for 2020 are based on the average cost of each project type approved in the Save Our Indian River Lagoon Project Plan, as amended in 2019, with the following additional considerations: 1) Cost share for Treatment Upgrades for Reclaimed Water has been updated to reflect the July 19, 2019 recommendation of the Citizen Oversight Committee to increase funding for the Palm Bay North Regional Water Reclamation Facility Nutrient Removal Project; 2) Cost share for Septic System Removal by Sewer Extension reflects the Board of County Commissioners' approved rate of up to \$1500 per pound of nitrogen load reduction for septic to sewer projects; and, 3) Cost Share offered for Stormwater Treatment Projects further consider the average cost by project location - \$112 on the Mainland, \$162 on Merritt Island and \$140 on the Beaches.

Danielle Bowden moved to recommend offering the proposed cost shares for recruiting project proposals for the 2020 Save Our Indian River Lagoon Project Plan Update; Seconded by Stephany Eley. Motion was approved

unanimously.

VIII. New Business

a. Request for Additional Funding for the Brevard County Basin #2134 Fleming Grant Biosorption Activated Media Project - Brandon

Brandon Smith gave a summary explanation for the request for Additional Funding for the Brevard County Basin #2134 Fleming Grant Biosorption Activated Media Project. It was noted that at the time of application, the project qualified for \$56,588 but the engineer's cost estimate was \$31,800 to construct the project. An updated cost estimate puts the actual construction cost at \$80,100, therefore a request was filed to increase the cost share to the full eligibility amount based on the updated nitrogen removal benefit.

Motion by Stephany Eley to recommend to the County Manager's Office approval of \$56,588 in funding for the Brevard County Basin #2134 Fleming Grant Biosorption Activated Media Project; Seconded by John Luznar. Motion was approved unanimously.

IX. General Public Comment

Public Comments were heard.

X. Final Comments by Chair and Committee Members

Final Comments were heard.

XI. Adjournment



Save Our Indian River Lagoon Project Plan September 2019 Progress Report

WORK COMPLETED THIS MONTH:

- Awarded Federal 319(h) Grant Funding for Sykes Creek - Zone M, \$423,936,
- Awarded Federal 319(h) Grant Funding for Sykes Creek – Zone T, \$1,071,936
- Grand Canal Muck Dredging – Turn lane installation for dewatering area complete
- Sykes Creek Muck Dredging – Phase I bid documents complete
- Micco Sewer – state applications submitted for right-of-way and environmental resource permits
- Sykes Creek Zones N Septic-to-Sewer – FDEP permit application submitted
- Total Maximum Daily Load Credit Share Interlocal Agreement with all Cities was recorded
- Sylvan Estates Septic to Sewer Amendment I executed
- Brevard Zoo contracts executed for North Indian River Lagoon Oysters, North Indian River Lagoon Plants, and Banana River Lagoon Plants Shoreline Restoration Projects
- Merritt Island Muck Dredging – Response to 2nd state Request for Additional Information submitted
- Mathers Bridge Area Muck Removal – Surveying of expanded project area complete
- University of Central Florida researchers conducted monitoring at 2 oyster sites and 2 planted sites
- Derelict Vessels – 5 additional derelict vessels removed; 8 new ones mapped after Dorian
- Completed projects layer added to the Story Map posted at www.brevardfl.gov/SaveOurLagoon/maps
- Annual Intergovernmental Collaboration Meeting held to review Project Cost Share Request Process
- Legislative water policy priorities and 3 funding requests submitted for 2020
- Audit Committee heard audit report on capital project and municipal grant processes

WORK UNDERWAY THIS MONTH:

- Interviewing applicants for the vacant staff positions
- Creating new, online project funding request application forms
- Advertising for new applicants to fill the soon to be vacant Oversight Committee Real Estate seat
- Palm Bay North Area Wastewater Reclamation Facility Amendment I scheduled to go to board 9/17/19
- Beaches Leaking Sewer Laterals – grant reimbursement forms offered to 9 interested property owners
- South Central C Septic-to-Sewer – awaiting 90% design.
- Sykes Creek Zone M and T- reviewing 30% design
- Melbourne – Requested 5-month extension for Pennwood Drive Septic to Sewer
- Titusville Septic to Sewer contract being created
- Titusville - South Street Baffle Boxes, La Paloma, and St Teresa 5-month extension requested;
- Johns Road, Flounder Creek, Basin 1409 and 1349 design complete, permitting underway
- Cocoa Beach Muck Dredging - Phase III is ~90% complete, Phase IIb scheduled to start this month
- Indian Harbour Beach Muck Dredging Contract being created
- Grand Canal Muck Dredging – Dewatering area approximately 40% complete, responding to FDEP RAI for permit modification, continuing to collect dredge waivers, seeking permit to add Berkeley
- Titusville Railroad Bridge East and West – Work authorized for bathymetric and muck survey
- NASA Causeway East– Work authorized for bathymetric and muck survey
- Kilroys – Coordinating with ORCA to complete installation of 4th monitoring station
- Performance monitoring is underway for Central Boulevard and Church Street Baffle Box upgrades
- Transportation Planning Organization discussed causeway elevation over the Banana River on 9/12
- Filming videos - Lateral Line Repairs



PRESENTATIONS THIS MONTH:

August 22 – Oyster Gardening Workshop – Brevard Zoo and Matt Badolato
August 28-30 – Florida Lake Management Society Conference – Virginia, Anthony, Walker
September 9 – Oyster Gardening Workshop – Brevard Zoo and Matt Badolato
September 11 – Sea Grant –Anthony
September 13 – Tortoise Island Food Truck Event – Walker
September 23 – Brevard Indian River Lagoon Coalition Straight Talk Cocoa Beach – Virginia and Brandon

UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS:

9/23, Indian River Lagoon Coalition Straight Talk - <https://helpthelagoon.org/lagoon-straight-talk-event/>
9/24, Brevard Zoo Oyster Gardening Workshop, Living Shoreline SOIRL Question and Answer - <https://restoreourshores.org/volunteer-we-need-you/>
9/27, Florida Tech TechCon2019 - <https://give.fit.edu/irlri-techcon>
10-1, Marine Resources Council Saving the Indian River Lagoon Presentation at Boaters Exchange - <https://savetheirl.org/>
10/10, A Day in the Life of the Indian River Lagoon - <https://seadifference.org/a-day-in-the-life>

UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES:

Keep Brevard Beautiful- International Coastal Cleanup, 9/21
Lagoon Friendly Lawns – contact Kaylyn Palmer of Keep Brevard Beautiful at 321-631-0501
Fish Kill Response Cleanup: contact Desiree Lesko of Keep Brevard Beautiful at 321-631-0501
Marine Resources Council Lagoon Watch, Mangrove, or Lagoon Literacy - <https://savetheirl.org/volunteer/>

WEBSITE AND SOCIAL MEDIA LINKS:

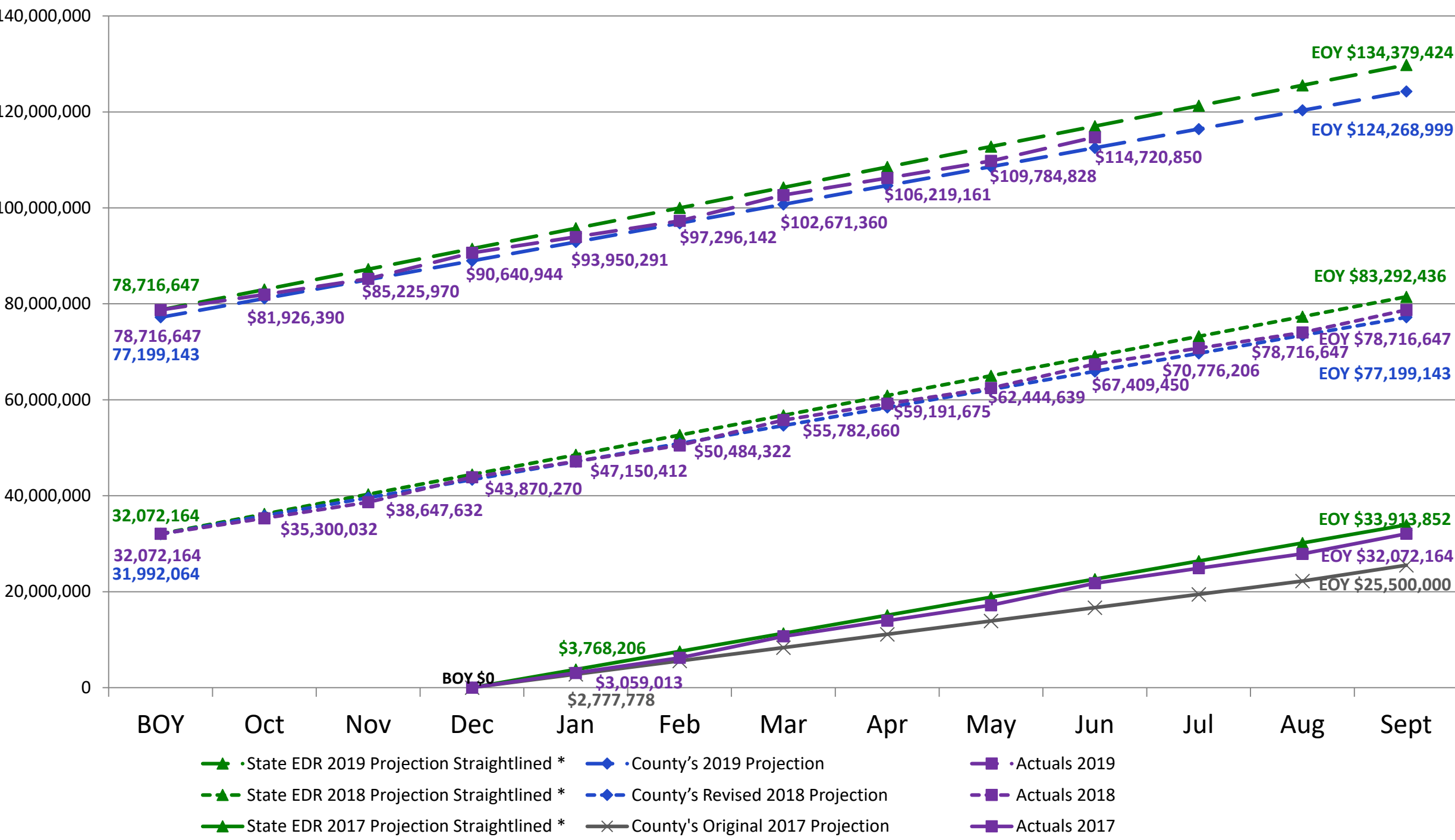
Outreach and Engagement Landing Page: <https://lagoonloyal.com/>
Website: <http://www.brevardfl.gov/SaveOurLagoon>
Facebook: <https://www.facebook.com/BrevardCountySaveOurLagoon;>
Instagram: <https://www.instagram.com/saveourlagoon/>
YouTube: <https://goo.gl/GBh6xU>

FUTURE TOPICS FOR SPECIAL PRESENTATIONS:

1. Tourism + Lagoon grant projects
2. Leaking lateral results
3. Ongoing Research on Charismatic Critters of the Lagoon – Hubbs SeaWorld Research Institute
4. New Enhanced Lagoon Circulation Research – Florida Tech Research Initiative
5. Low Impact Development – Local examples
6. Indian River Lagoon Research News: TechCon, ShORE, and Harbor Branch Symposium Highlights
7. Completed and Ongoing Muck Research – Florida Tech Research Initiative & Dr. Drew Palmer
8. Coordinating Spoil Management with Florida Inland Navigation District
9. Water Technology Conference/Industry Day – Economic Development and National Estuary Program
10. Re-use/Reclaimed Water – Nutrient Loading Impacts and Opportunities
11. Surface Water Remediation Technologies
12. Oyster histories in Brevard County - University of Central Florida
13. Project Monitoring Results
14. Package Plants

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 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

Month	State EDR 2019 Projection Straightlined *	County's 2019 Projection	Actuals 2019	State EDR 2018 Projection Straightlined *	County's Revised 2018 Projection	Actuals 2018	State EDR 2017 Projection Straightlined *	County's Original 2017 Projection	Actuals 2017
BOY	\$83,292,436	\$77,199,143	\$78,716,647	\$33,913,852	\$31,992,064	\$32,072,164	\$0	\$0	\$0
Oct	\$87,549,685	\$81,121,631	\$81,926,390	\$38,028,734	\$35,832,746	\$35,300,032	\$0	\$0	\$0
Nov	\$91,806,934	\$85,044,119	\$85,225,970	\$42,143,616	\$39,593,327	\$38,647,632	\$0	\$0	\$0
Dec	\$96,064,183	\$88,966,607	\$90,640,944	\$46,258,498	\$43,353,909	\$43,870,270	\$0	\$0	\$0
Jan	\$100,321,432	\$92,889,095	\$93,950,291	\$50,373,380	\$47,114,490	\$47,150,412	\$3,768,206	\$2,777,778	\$3,059,013
Feb	\$104,578,681	\$96,811,583	\$97,296,142	\$54,488,262	\$50,875,072	\$50,484,322	\$7,536,412	\$5,555,556	\$6,217,230
Mar	\$108,835,930	\$100,734,071	\$102,671,360	\$58,603,144	\$54,635,653	\$55,782,660	\$11,304,617	\$8,333,334	\$10,686,395
Apr	\$113,093,179	\$104,656,559	\$106,219,161	\$62,718,026	\$58,396,235	\$59,191,675	\$15,072,823	\$11,111,112	\$13,941,510
May	\$117,350,428	\$108,579,047	\$109,784,828	\$66,832,908	\$62,156,817	\$62,444,639	\$18,841,029	\$13,888,890	\$17,177,137
Jun	\$121,607,677	\$112,501,535	\$114,720,850	\$70,947,790	\$65,917,398	\$67,409,450	\$22,609,235	\$16,666,668	\$21,754,009
Jul	\$125,864,926	\$116,424,023		\$75,062,672	\$69,677,980	\$70,776,206	\$26,377,441	\$19,444,446	\$24,898,729
Aug	\$130,122,175	\$120,346,511		\$79,177,554	\$73,438,561	\$74,021,947	\$30,145,647	\$22,222,224	\$27,890,034
Sept	\$134,379,424	\$124,268,999		\$83,292,436	\$77,199,143	\$78,716,647	\$33,913,852	\$25,500,000	\$32,072,164