

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

October 16, 2020 – 8:30 to 11:30 am
Brevard County Government Center
2725 Judge Fran Jamieson Way
On-line via Zoom Conference
Viera, Florida 32940

- I. Call to Order
- II. Roll Call
- III. Approval of the Agenda
- IV. Approval of Minutes
- V. Progress and Fiscal Reports
 - a. Monthly Progress Report – Virginia Barker, Director
 - b. Monthly Revenue Graph – Crystal Melton, Fiscal Analyst
- VI. Other Reports and Special Presentations
 - a. Dolphins of the Indian River Lagoon: Sentinels of Estuary Health - Megan Stolen, Research Scientist II, Hubbs SeaWorld Research Institute
 - b. The Fast and the Furriest: Otters of the Lagoon Watershed - Megan Stolen, Research Scientist II, Hubbs SeaWorld Research Institute
 - c. Environmental Modeling of Muck Dredging Benefits – Dr. Gary Zarillo, Professor, Ocean Engineering and Marine Sciences, Florida Institute of Technology
 - d. Project Video - Offline Stormwater Treatment
- VII. Old Business
- VIII. New Business
- IX. General Public Comments
- X. Final Comments by Chair and Committee Members
 - a. Meeting format – Governor DeSantis' Executive Order 20-246 authorized the use of virtual meetings for local government bodies through October 31, 2020. Starting November 1, at least a quorum must meet in person.
- XI. Adjournment

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

September 18, 2020 – 8:30 a.m.
2725 Judge Fran Jamieson Way,
On-line Zoom Conference
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	No	Kimberly Newton	Yes
Finance	Courtney Barker-Vice-Chair	Yes	Todd Swingle	Yes
Tourism	David Lane	Yes	Laurilee Thompson	Yes
Real Estate	Jay Moynahan	Yes	Dennis Basile	Yes
Lagoon Advocacy	John Windsor – Chair	Yes	Terry Casto	Yes

Staff Present:

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

I. Call to Order

II. Roll Call

A quorum was established.

a. Welcome Kimberly Newton – Alternate for Education/Outreach

This item was heard under X., Final Comments by Chair and Committee Members.

III. Approval of the Agenda

Lorraine Koss moved to approve the Agenda with the following changes; 1) Delete Old Business Item VIII.a., Leaky Lateral Update; 2) Add presentation, Pro-rated Possibility for Septic Upgrades and Sewer Connections under VI., Other Reports and Special Presentation, between Items C and D; Seconded by John Luznar. Motion was unanimously approved.

IV. Approval of Minutes

Courtney Barker moved to approve the August 21, 2020 minutes as written;
Seconded by Lorraine Koss. Motion was unanimously approved.

V. Progress and Fiscal Reports

a. Monthly Progress Report – Virginia Barker

The Monthly Progress Report was given by Virginia Barker.

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

b. Monthly Revenue Graph – Crystal Melton, Fiscal Analyst

Crystal Melton reported on the Monthly Revenue Graph.

VI. Other Reports and Special Presentations

a. Merritt Island Redevelopment Agency – Cone Road Septic to Sewer Update – Cynthia Thurman, Special Projects Coordinator IV

Cynthia Thurman gave a power point presentation on the Cone Road Project. Ms. Thurman discussed the Scope of Phases 2 and 3 of the Project; which included: 1) Filling of an existing ditch located on the north side of Cone Road; 2) Stormwater diversion to Merritt Ridge Wet Detention pond; 3) Bioswale construction; and; 4) Septic to sewer conversion of over 60 tanks.

The project was a group effort supported by the Board of County Commissioners and partially funded by: 1) Merritt Island Redevelopment Agency; 2) St. Johns River Water Management District; 3) Florida Department of Environmental Protection; 4) Save Our Indian River Lagoon; 5) Brevard County Public Works with implementation assistance from Brevard County Departments; 6) Natural Resources; 7) County Finance; 8) County Utilities; 9) Building Department; and, 10) Florida Department of Environmental Health.

Discussion ensued. The Committee's questions were answered by Cynthia Thurman, Virginia Barker, and Matt Badolato.

b. Plumber Request for Qualifications Update – Matt Badolato, Environmental Specialist

Matt Badolato gave a power point presentation update on Plumber Request for Qualifications. The advertised request for qualifications was conducted to pre-qualify plumbers to work on Save Our Indian River Lagoon projects. Topics included: 1) Leaky Lateral Projects; 2) Septic to Sewer Projects; 3) Quick Connect Projects, 4) Review and Qualification meeting to be held October 14th; and, 5) Selection. Two responses were received.

Discussion ensued. The Committee's questions were answered by Matt Badolato.

c. Clam Aquaculture Incentive Program – Matt Badolato and Jenny Hansen, Environmental Specialists

Matt Badolato gave a power point presentation on the Save Our Indian River Lagoon Clam Restoration Projects which included: 1) Super Clam Project; and, 2) Aquaculture Stimulus Project.

The grant application for the Super Clam Project has been submitted. Brevard Zoo will be coordinating the project if funding comes through.

Staff is suggesting an Aquaculture Stimulus Project which would potentially be funded by Save Our Indian River Lagoon Plan funds, if the Committee were to recommend that it be added to the Plan Update, and the Board of County Commissioners were to approved adding the program in the 2021 Plan.

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

Lorraine Koss moved that the Committee bring the Aquaculture Stimulus Project back in the form of a proposal to be incorporated into the Plan; Seconded by John Luznar.

There were no Public Comments.

Motion was unanimously approved.

d. Pro-rated possibility for Septic Upgrades and Sewer Connections

Matt Badolato gave a power point presentation on prorated-reimbursements for infrastructure and wastewater projects. Topics included: 1) Expand area of eligibility for Leaky Laterals Upgrades and Sewer Quick Connects; 2) Pro-rated reimbursement based on nitrogen removal; 3) Shovel-ready homeowners with failing systems; and, 4) Direct-payment option using Save Our Indian River Lagoon qualified plumbers.

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

e. My Lagoon Story Videos featuring Dennis Basile

A My Lagoon Story Video featuring Dennis Basile was shown.

f. Project Videos for the Living Shoreline Demonstration and Oyster Monitoring

Project videos for the Living Shoreline Demonstration and for Oyster Monitoring were shown.

VII. Old Business

a. Leaky Lateral Grant Update – Virginia Barker, Director

Deleted.

VIII. New Business

a. Melbourne Sherwood Park Stormwater Project Expansion (added to Basin 1335) – Virginia Barker, Director

Virginia Barker gave a summary and background of the City of Melbourne's Sherwood Park Stormwater Quality Project to treat portions of Basins 1330 and 1331 in addition to Basin 1335.

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

Jay Moynahan moved to recommend approval of a \$99,708 increase for the City of Melbourne's Sherwood Park Stormwater Quality Project to treat portions of Basins 1330 and 1331 in addition to Basin 1335; Seconded by John Luznar.

There were no Public Comments.

Motion was unanimously approved.

b. Reappointments and Succession Planning – Dr. John Windsor

Dr. Windsor spoke briefly about Reappointments and Succession Planning of the Save Our Indian River Lagoon Citizens Oversight Committee. Discussion ensued.

Dennis Basile moved that the Committee write a letter to the County Commission pointing out the Committee's concerns; and, to recommend that the Commission consider staggering the terms of Alternates and Members, whether it be one- or two-year terms.

The Committee's questions were answered by Virginia Barker.

After further discussion Dennis Basile withdrew the motion.

It was hoped that today's discussion would be enough to get the message to the League of Cities and the Board of County Commissioners that the Committee strongly encourage consideration of those alternates who want to be considered to be full board members.

IX. General Public Comment

There were no public comments.

X. Final Comments by Chair and Committee Members

Final Comments by Kimberly Newton and John Windsor were heard.

XI. Adjournment



Save Our Indian River Lagoon Project Plan October 2020 Progress Report

WORK COMPLETED THIS MONTH:

- Follow up inspections were done on Fertilizer Store Signage, 2 remain out of compliance
- Palm Bay Water Reclamation Facility Upgrade - Project broke ground on construction
- Innovative Septic Drainfields – 3 more sites installed; all 6 sites will be monitored quarterly
- Micco Sewer Service Extension – Additional survey data collected; additional design work under way
- Cocoa Beach Golf Muck Project – City Commission approved negotiating a consultant agreement
- Eau Gallie Northeast Muck Project – Survey collected for pipeline to cross the Intercoastal Waterway
- Septic Upgrades – 6 completed (4 in North IRL, 2 in Central IRL), first reimbursements in process
- Stormwater Baffle Box Grant (319 NF025) – Final monitoring report submitted
- Brevard Zoo built 2,760 square feet of oyster bar along Riverside Drive, Melbourne Beach
- University of Central Florida monitored 2 oyster bars. The 2-year old Bomalaski site had 66.2 ± 26.2 live oysters per shell bag. Recent and ongoing recruitment should maintain higher density than deployed
- Project video was completed for an Offline Stormwater Project
- Derelict Vessels – 1 additional derelict vessel removed

WORK UNDERWAY THIS MONTH:

- New project funding applications – 24 received: 5 septic removal/sewer extensions, 7 stormwater including a project amendment, 3 vegetation harvesting, 5 oyster bars and 4 planted shorelines
- Plumbers - Selection Committee meets Oct 14th to pre-qualify contractors for direct pay from County
- Developing an online grant application portal for septic upgrades, sewer connections and repairs
- Beaches Leaking Sewer Laterals – 28 repairs complete; 9 reimbursements processed to date
- Cone Road Septic-to-Sewer Phase 2 – 45 properties connected
- Sykes Creek N Septic-to-Sewer – Task Order prepared to design vacuum sewer
- South Central C Septic-to-Sewer – Utilities is addressing state and right-of-way permit questions
- Septic Upgrades – 154 applications and 6 reimbursements processed to date
- Septic Load Estimation for all parcels county-wide is underway to support pro-rated grant options
- Stormwater Basins 22, 51, 1298 and 1304 – Are under construction
- Big Muddy Baffle Box - Time extension amendment out for signatures
- Thrush Drive and Sylvan Estates - Time extension amendments executed
- Cocoa Beach Phase IIb Muck Dredging – Dredging is approximately 60% complete
- Grand Canal Muck Dredging – Dredging is active; Army Corps may shorten manatee closure period
- Sykes Creek Phase I Muck Dredging – Reviewing response to 2nd request for additional information
- NASA Causeway East & Titusville Railroad Bridge West – Analysis of field data is underway
- Rockledge A Muck Dredging – Awaiting deliverables from consultant for sediment analysis
- Brevard Zoo has begun building 1,920 square feet of oyster bar at Dragon Point.
- Video Production – filming for My Lagoon Story: Kimberly Newton and Stephany Eley
- FY 20/21 Fertilizer and Septic Outreach - Task order with MTN is out for signature
- FY 20/21 Grass Clippings Outreach - Task order with MRC is out for signature
- Contract templates approved by Commission to allow for two six month, no-cost time extensions
- Closing out fiscal year 19-20; Opening Purchase Orders for fiscal year 20-21



PRESENTATIONS THIS MONTH:

September 18 – Florida Stormwater Association: Impacts of Sediment on Water Quality – Walker Dawson
September 19 – Catch a Memory Fishing Radio Show – Virginia
September 29 – Cocoa Rotary Meeting – Virginia
October 7 – Propeller Club - Virginia

UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS:

November 10 – [Marine Resources Council Lunch and Learn Webinar: Ropeless Fishing Gear](#)
November 7 – [Lagoon Loyal Event at Boater's Exchange 9:00 am – 4:00 pm](#)
November 14 – Indian River Lagoon Day at Front Street Park 10:00 am – 2:00 pm
Ongoing - [Marine Resources Council 3rd-6th grade Virtual Learning](#)
October 17 & 24, November 7 & 21 – Merritt Island National Wildlife Refuge Hikes – [Email Micah Thomas](#)

UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES:

Brevard Zoo – [Oyster Gardener Training Workshops](#) – October 14 & 17
Rotary Park rain garden maintenance – [Email Carlos Cuevas for opportunities](#)
Storm drain marking in Cocoa – [Email Carlos Cuevas for opportunities](#)
Merritt Island National Wildlife Refuge Trash Cleanups Tuesday & Saturdays – [Email Micah Thomas](#)

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:

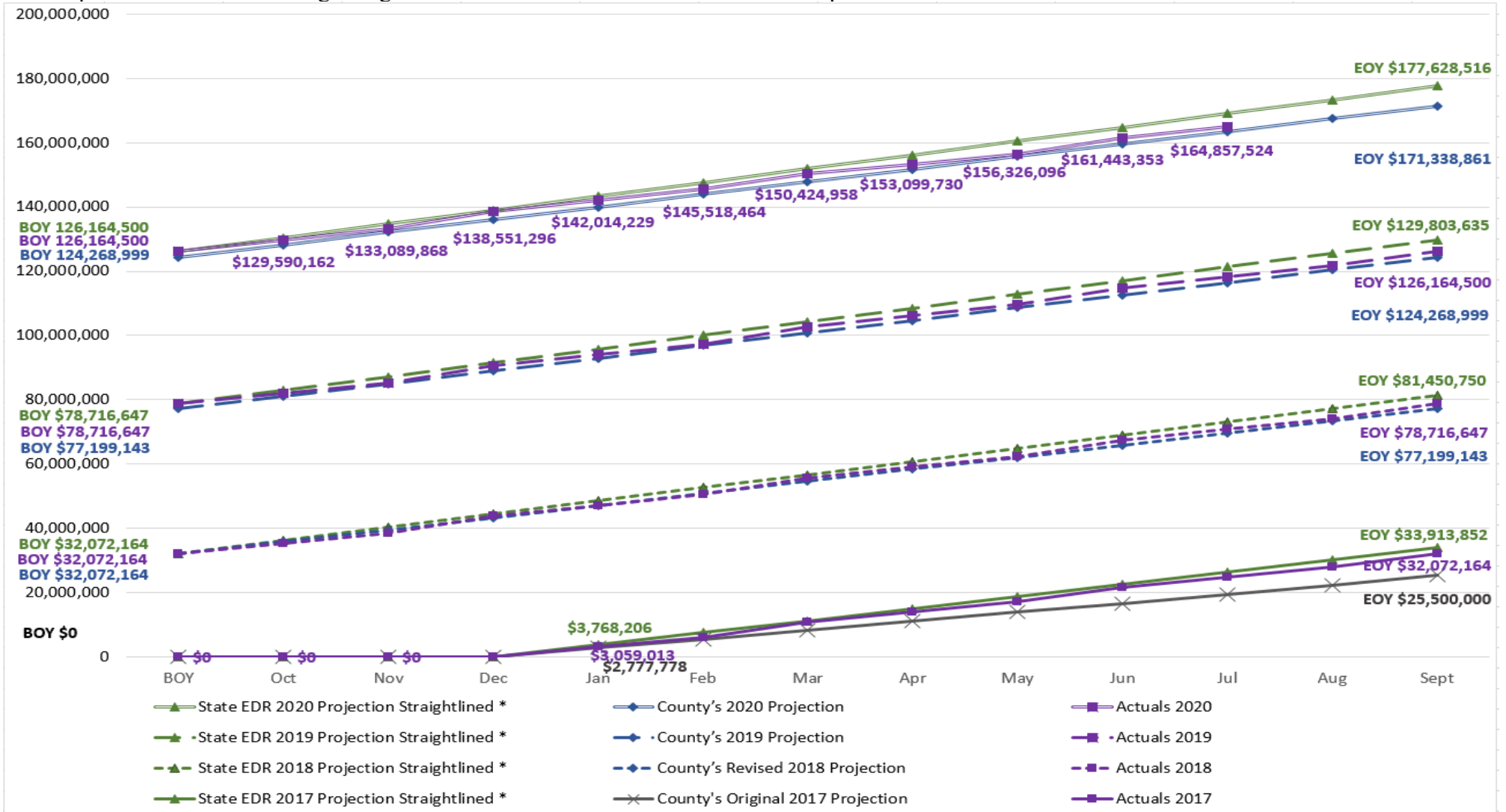
1. Wastewater Utility Asset Management Planning – Todd Swingle
2. Re-use/Reclaimed Water – Nutrient Loading Impacts and Opportunities
3. Surface Water Remediation – Phosphorus Free, S.W.I.G., D.T.G., Chemical Tech
4. New Enhanced Ocean Inflow Research – Florida Tech Research Initiative
5. Completed and Ongoing Muck Research – Florida Tech Research Initiative
6. Indian River Lagoon Research News: TechCon, Shore, and Harbor Branch Symposium Highlights
7. Water Technology Conference/Industry Day – Economic Development and National Estuary Program
8. Coordinating Spoil Management with Florida Inland Navigation District
9. Pollution and Algal Bloom Mapping via Satellite Imagery Interpretation - Gybe
10. Lagoon Fish and Fisheries Research – Dr. Grant Gilmore
11. Lagoon projects managed and funded by other agencies, entities or grant programs
12. Climate change impacts to the Lagoon – Randy Parkinson
13. Low Impact Development – Local examples
14. Project Monitoring Results
15. 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 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 2020 Projection Straightlined *	County's 2020 Projection	Actuals 2020	State EDR 2019 Projection Straightlined *	County's 2019 Projection	Actuals 2019	State EDR 2018 Projection Straightlined *	County's Revised 2018 Projection	Actuals 2018
BOY	126,164,500	124,268,999	126,164,500	\$78,716,647	\$77,199,143	\$78,716,647	\$32,072,164	\$32,072,164	\$32,072,164
Oct	130,453,168	128,191,487	\$129,590,162	\$82,973,896	\$81,121,631	\$81,926,390	\$36,187,046	\$35,832,746	\$35,300,032
Nov	134,741,836	132,113,976	\$133,089,868	\$87,231,145	\$85,044,119	\$85,225,970	\$40,301,929	\$39,593,327	\$38,647,632
Dec	139,030,504	136,036,464	\$138,551,296	\$91,488,394	\$88,966,607	\$90,640,944	\$44,416,811	\$43,353,909	\$43,870,270
Jan	143,319,172	139,958,953	\$142,014,229	\$95,745,643	\$92,889,095	\$93,950,291	\$48,531,693	\$47,114,490	\$47,150,412
Feb	147,607,840	143,881,441	\$145,518,464	\$100,002,892	\$96,811,583	\$97,296,142	\$52,646,575	\$50,875,072	\$50,484,322
Mar	151,896,508	147,803,930	\$150,424,958	\$104,260,141	\$100,734,071	\$102,671,360	\$56,761,457	\$54,635,653	\$55,782,660
Apr	156,185,176	151,726,418	\$153,099,730	\$108,517,390	\$104,656,559	\$106,219,161	\$60,876,340	\$58,396,235	\$59,191,675
May	160,473,844	155,648,907	\$157,972,378	\$112,774,639	\$108,579,047	\$109,784,828	\$64,991,222	\$62,156,817	\$62,444,639
Jun	164,762,512	159,571,395	\$161,443,353	\$117,031,888	\$112,501,535	\$114,720,850	\$69,106,104	\$65,917,398	\$67,409,450
Jul	169,051,180	163,493,884	\$164,857,524	\$121,289,137	\$116,424,023	\$118,207,520	\$73,220,986	\$69,677,980	\$70,776,206
Aug	173,339,848	167,416,372		\$125,546,386	\$120,346,511	\$121,640,336	\$77,335,868	\$73,438,561	\$74,021,947
Sept	177,628,516	171,338,861		\$129,803,635	\$124,268,999	\$126,164,500	\$81,450,750	\$77,199,143	\$78,716,647

Save Our Indian River Lagoon Revenues Cumulative Chart Fiscal Year 16-17 to Current Fiscal Year

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- 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 2017 Projection Straightlined *	County's Original 2017 Projection	Actuals 2017
BOY	zero	zero	zero
Oct	zero	zero	zero
Nov	zero	zero	zero
Dec	0	0	0
Jan	\$3,768,206	\$2,777,778	\$3,059,013
Feb	\$7,536,412	\$5,555,556	\$6,217,230
Mar	\$11,304,617	\$8,333,334	\$10,686,395
Apr	\$15,072,823	\$11,111,112	\$13,941,510
May	\$18,841,029	\$13,888,890	\$17,177,137
Jun	\$22,609,235	\$16,666,668	\$21,754,009
Jul	\$26,377,441	\$19,444,446	\$24,898,729
Aug	\$30,145,647	\$22,222,224	\$27,890,034
Sept	\$33,913,852	\$25,500,000	\$32,072,164