



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

May 20, 2022 – 8:30 to 11:30 am
Brevard County Government Center
2725 Judge Fran Jamieson Way, Bldg. C, 3rd Floor,
Viera, Florida 32940
Florida Room 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 April 2022 Minutes and Approval of Amended November 2021 Minutes
- VI. Progress and Fiscal Reports
 - a. Monthly Progress Report – Virginia Barker, Director
 - b. Monthly Revenue Graph – Crystal Melton, Finance Manager
 - c. Quarterly Financial and Grants Statement– Crystal Melton, Finance Manager
 - d. Quarterly Save Our Indian River Lagoon Project Performance Table Update – Terri Breeden, Environmental Section Supervisor
- VII. Other Reports and Special Presentations
 - a. My Lagoon Story Video – Eric Mannes
 - 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.
 - 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.
 - d. Winds and Topographic Controls on the Connectivity in the Norther Indian River Lagoon – Dr. Mingshun Jiang, Associate Research Professor, Harbor Branch Oceanographic Institute, Florida Atlantic University
 - 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
- VIII. Old Business
- IX. New Business
- X. General Public Comments
- XI. Final Comments by Chair and Committee Members
- XII. Adjournment

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

April 15, 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	No	Charles Venuto	Yes
Technology	Vinnie Taranto - Chair	Yes	David Sherrer	Yes
Education	Stephany Eley	Yes	Kimberly Newton	Yes
Finance	Courtney Barker	No	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
Heather Balsler, Assistant County Attorney
Sarah Beazley, Assistant County Attorney
Brandon Smith, Environmental Specialist
Matt Badolato, Associate Environmental Specialist
Terri Breeden, Environmental Section Supervisor
Jenny Hansen, Associate Environmental Specialist
Beb Sebastian, Associate Environmental Specialist
Anthony Gubler, Environmental Specialist
Crystal Melton, Department Finance Manager
Walker Dawson, Engineer III
Courtney Maier, Engineer I

I. Call to Order

II. Roll Call

III. Acceptance of Virtual Votes

John Windsor moved to allow Committee Members, who were attending online via Zoom, to vote virtually; seconded by Charles Venuto.

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

IV. Approval of the Agenda

Chair Taranto pointed out New Business, Item IX.a., Legislative Session - Senator Mayfield, and mentioned that the Senator would be joining the meeting online via Zoom

Save Our Indian River Lagoon Citizen Oversight Committee Meeting
MINUTES – April 15, 2022

at 9:30 a.m. It was noted that the Committee would break, wherever they were in the Agenda to give Senator Mayfield the floor.

Stephany Eley moved to make the adjustment to the Agenda, that wherever the Committee was in the Agenda, they break for Senator Mayfield to come in and give her the floor; seconded by John Windsor.

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

Chair Taranto asked for a motion to approve the rest of the Agenda.

David Lane moved to approve the Agenda as written; Seconded by Stephany Eley.

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

V. Approval of Minutes

David Lane moved to approve the Minutes as written; seconded by Todd Swingle.

There was discussion regarding changing the way the minutes are written with regard to whether or not public comments were heard. It was noted that for clarification, the minutes should read, "There was no public comment for the motion", rather than "there were no public comments".

Stephany Eley amended the motion to approve the Minutes with the noted change moving forward; seconded by John Windsor.

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

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, Anthony Gubler, Matt Badolato, Brandon Smith and Mr. Taranto responded to the Committee's questions.

b. Monthly Revenue Graph – Crystal Melton, Finance Manager

Crystal Melton reported on the Monthly Revenue Graph.

Discussion ensued.

c. Monthly Financial Statement Crystal Melton, Finance Manager

Crystal Melton reported on the Monthly Financial Statement.

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

Save Our Indian River Lagoon Citizen Oversight Committee Meeting
MINUTES – April 15, 2022

i. Clarify Oversight Committee Request for a Table of Grant Information

A draft table was presented for committee input. Discussion ensued. Crystal Melton, Virginia Barker and Matt Badolato responded the Committee's questions.

VII. Other Reports and Special Presentations

a. My Lagoon Story Video – Captain John Byron

A video, My Lagoon Story, Captain John Byron was shown.

Committee members commented and shared memories of Captain Byron.

(Mr. Taranto announced that Senator Mayfield logged into the meeting. New Business Item IX.a., Legislative Session Mayfield was heard at this time.)

b. New Committee Member Orientation Information – Virginia Barker

(This item was heard after VI.a., My Lagoon Story Video – Captain John Byron, and 10-minute break.)

- i. Welcome Letter and Checklist
- ii. Typical Action Items of the Committee by Month
- iii. Save Our Indian River Lagoon Sunshine Memo
- iv. Brevard County Policy on Advisory Bodies (BCC-67)
- v. Citizen Oversight Committee Ground Rules
- vi. Guidance for Ensuring Compliance
- vii. Citizen Oversight Committee By-Laws
- viii. Save Our Indian River Lagoon Ordinance
- ix. Save Our Indian River Lagoon Plan Update

New Committee Member Orientation Information was reviewed by Virginia Barker. Topics included listed Items VI.b.i., through VI.b.ix, except item VI.b.iii. which was addressed under item VI.c.

Discussion ensued. Virginia Barker and Heather Balsler responded to the Committee's questions.

c. Government in the Sunshine/Florida's Public Meetings Law/Conflicts of Interest Review – Heather Balsler, Assistant County Attorney

Heather Balsler, Assistant County Attorney, gave a presentation on Government in the Sunshine/Florida's Public Meetings Law/Conflicts of Interest Review.

Discussion ensued. Heather Balsler responded to the Committee's questions.

d. Public Reading of Conflict of Interest forms 8b – Carol Gerundo

Public Reading of Conflict of Interest forms 8b was heard.

Save Our Indian River Lagoon Citizen Oversight Committee Meeting
MINUTES – April 15, 2022

Discussion ensued. Heather Balsler responded to the Committee's questions.

e. Sunnyland Beach Environmental Fair Video

A video, Sunnyland Beach Environmental Fair, was shown.

VIII. Old Business

None.

IX. New Business

a. Legislative Session – Open Session

(This item was heard after VI.a., My Lagoon Story Video – Captain John Byron.)

Mr. Taranto welcomed Senator Mayfield to the meeting.

Senator Mayfield spoke about the past legislative session and work being done to continue funding infrastructure and the environment. Senator Mayfield mentioned that revenue had increased over the years with the current budget of \$112 billion. Topics highlighted were as follows: 1) \$185 million to Everglades restoration and water quality improvements; 2) \$19.9 million for the Derelict Vessels Removal Program; 3) \$71 million for local initiatives for Brevard County, which included the following; 4) Quick Connect to Sewer Program – Upgrades to Advance Treatment; 5) \$1.2 million for the Palm Bay Turkey Creek Baffle Box; 6) \$12 million for the Cocoa Beach Muck Dredging and Capping Program; 7) \$14 million for Riverside Drive Force Main Improvements; and 8) \$12 million for the South Beaches Water Treatment Facility Conversion to Advance Wastewater Treatment.

Senator Mayfield noted that the recommendations would still need to be approved by the Governor, who has veto power. Senator Mayfield encouraged the Committee and anyone else to send a letter to the Governor's Office indicating how important the projects are to the Indian River Lagoon. It was noted that contact name and information can be provided. Discussion ensued.

Senator Mayfield and Virginia Barker responded to the Committee's questions.

The Committee thanked Senator Mayfield for her involvement, efforts, and dedication to the Indian River Lagoon.

(Item VI.a., My Lagoon Story, Captain John Byron continued at this time.)

Comments and shared memories of Captain John Byron were heard.

(10-minute break)

X. General Public Comments

General public comments were heard.

Save Our Indian River Lagoon Citizen Oversight Committee Meeting
MINUTES – April 15, 2022

XI. Final Comments by Chair and Committee Members

Final Comments were heard.

XII. Adjournment

Extracted from SOIRL COC Meeting Minutes** (Page 1 of 7)

February 2017

State Funded Muck Dredging – Matt Culver

March 2017

Trust Fund Auditor – Jill Reyes, RSM

Eva Lane Stormwater Treatment – Dr. Tom Waite, FIT

State Funded Muck Research – Dr. John Windsor, FIT

Tracking Economic Indicators – Al Vasquez, CloseWaters, LLC

Communication Strategy – Vinnie Taranto

April 2017 (Televised meetings began in April 2017)

Fertilizer Education and Outreach Panel – Dr. Duane DeFreese, IRLNEP; Dr. Martha Monroe, UF; Linda Seals, Brevard County Extension; Dr. Leesa Souto, MRC; Tony Sasso, KBB; Andrea Hill, Brevard Zoo; Lisa Good, Blue Life

May 2017

Communication Strategy Update – Vinnie Taranto

Living Shoreline Panel – Annie Roddenberry, FWCC; Dr. Leesa Souto, MRC; Jake Zehnder, Brevard Zoo; Dr. Robert Weaver, FIT; Dr. Melinda Donnelly, UCF; Jane Hart, NRMD

July 2017

Seagrass Panel – Dr. Dennis Hanisak, HBOI; Lauren Hall, SJRWMD; Lori Morris, SJRWMD; Marty Smithson, SITD; Carter Henne, Sea and Shoreline

August 2017

Septic Alternatives Panel - Robert Bolton, P.E., City of Vero Beach; Dr. Xueqing Gao, FL Dept. of Health; Roxanne Groover, FL Onsite Wastewater Assoc.

September 2017

Monitoring performance and measuring success panel: Stormwater Project Performance – Terry Williamson, Stormwater Environmental Scientist; *Measuring Groundwater Pollution* – Dr. Claudia Listopad, Applied Ecology, Inc.; *Muck Dredging Performance* – Dr. John Trefry, FIT

October 2017

Master Programmatic Permitting of Muck Removal from IRL – Stephen Berry, Jones, Edmonds & Assoc.

Hurricane Impacts to Sewer Systems and Response Options – Mark Reagan, BC Utility Services

November 2017

Half Cent Sales Tax Audit Report – Jill Reyes, RSM

December 2017

Compliance with Public Records Laws – Christine Valliere

Findings from Field Trip to Florida Onsite Wastewater Treatment Association – Anthony Gubler, NRMD and Fact-Finding Committee

January 2018

Crane Creek/M-1 Canal Flow Restoration – Bill Tredik, SJRWMD

**Some important topics have been presented at each SOIRL COC meeting. This list was extracted from meeting minutes by John Windsor, COC member. The list only includes informational presentations and not the regular business conducted at each meeting such as progress reports and budget updates.

Extracted from SOIRL COC Meeting Minutes (Page 2 of 7)**

February 2018

Algal bloom status and investigation Dr. Chuck Jacoby, SJRWMD

March 2018

Restoration Insights from National Estuary Management Plans – Dr. Duane De Freese, IRLNEP and Walker Dawson, NRMD

Indian River Lagoon Comprehensive Conservation and Management Plan (IRLCCMP) Update – Dr. Duane De Freese, IRLNEP

April 2018

Rockledge Breeze Swept Monitoring Data – Dr. Claudia Listopad, Applied Ecology

Groundwater Monitoring Study Plan – Dr. Claudia Listopad, Applied Ecology

Oyster Restoration Progress – Keith Winsten, Executive Director Brevard Zoo

May 2018

The Challenges of the Fertilizer Ban to Rockledge Gardens – Steve Krzyston

Nitrogen Reducing Septic Systems – Bill Buckman, ASAP Septic and Morris Smith, Jr., PE, PSM, Morris Smith Engineering

Healthy Lawns without Chemicals – Linda Seals, UF/IFAS

Controlling Excess Irrigation - Rich Dunkel, Irrigreen

Living Shoreline Public Map Tool – Jane Hart, Environmental Scientist

July 2018

Florida Department of Environmental Protection Initiatives to Reduce Sanitary Sewer Overflows – Aaron Watkins, FDEP; Benjamin Melnick, FDEP; Borja Crane-Amores, FDEP

Wastewater Utility Panel Discussion – Jim Helmer, BC Utility Services Department; Joshua Suprenant, City of Cape Canaveral; Ralph Reigelsperger, City of Melbourne; Scott Barber, City of Cocoa Beach; Todd Swingle, SOIRL Citizens Oversight Committee and Director of Utilities, Orange County, moderated the panel discussion and gave a brief introduction.

August 2018

A Day in the Life of the Indian River Lagoon, County-wide Public School Data Collection Event – Missy Weiss – S.E.A. a Difference Environmental Services Florida Coordinator for “A Day in the Life Program”

Making Muck Pollution Visible in Sykes Creek – Dr. Beth Falls, Ocean Research Conservation Association (ORCA)

Mass Spectrometry Signatures in Indian River Lagoon Muck – Dr. Drew Palmer, FIT

September 2018

Nitrification/Denitrification 101 – Marty Wanielista, PhD, UCF Stormwater Academy.

Using Bioactive Media to Solve Real World Problems in Stormwater and Wastewater Applications – Antony Rios, E.I., Environmental Conservation Solutions, LLC

Nutrient Removal with Solar Filtration – Randy Burden, EcoSense, and Leesa Souto, PhD, MRC

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Engaging Emerging Technology – Duane De Freese, PhD, IRL National Estuary Program

October 2018

Tourist Development Council Lagoon Tourism Grant Program – Stacy Delano, TDC

Septic Ordinance Analysis and Project Prioritization Implications – Virginia Barker, Director, and Anthony Gubler, Environmental Specialist, NRMD

November 2018

Circulation Enhancement – Dr. Gary Zarillo, FIT

Brevard County Stormwater Utility's Full-Scale Pilot Test Filtration and/or Biosorption Activated Media Projects – Jeff Rapolti, PE, Brevard County

December 2018

The Importance of the Indian River Lagoon to Brevard County – Frank Abbate, County Manager

Crane Creek Rediversion (M-1) Canal Funding Celebration – Drew Bartlett, Deputy Secretary, FDEP and Anne Shortelle, Executive Director, SJRWMD

Harmful Algal Blooms of Florida – Dr. James Sullivan, Executive Director, HBOI

SOIRL Community Survey Results – Holly Abeels, UF IFAS, Sea Grant Extension Agent

January 2019

Save Our Indian River Lagoon Trust Fund Audit – Jill Reyes, Director, RSM US LLP

A Day in the Life of the Indian River Lagoon – Missy Weiss, S.E.A. a Difference Environmental Services Florida Coordinator for "A Day in the Life Programs"

Muck Flux Mapping and Dredging Prioritization in Support of the 2019 Plan Update – Walker Dawson, Engineer III, NRMD

Septic and Package Plant Loading and Prioritization Analyses in Support of the 2019 Plan Update – Anthony Gubler, NRMD

Lagoon Education/Outreach Options Requested by County Commission – Virginia Barker, Director NRMD

February 2019

Resolutions Supporting Consideration of Circulation Improvements during Infrastructure Planning Studies for State Roads 528 and 520 – Robert Musser, Port Canaveral Port Authority

Mapping Pollution in Sykes Creek – Dr. Beth Falls, Ocean Research and Conservation Association (ORCA)

What are Likely Sources and Chemical Forms of N and P added to Indian River Lagoon Waters? – John Trefry, Ph.D., FIT and Austin Fox, Ph.D., FIT

March 2019

Florida Sunshine Law Review – Christine Valliere, Assistant County Attorney

April 2019

Breeze Swept Septic to Sewer Project Performance Measures – Dr. Claudia Listopad, Applied Ecology, Inc

Modeling Muck Toxicity and E. coli Screening – Drew Palmer, Ph.D., FIT

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Keynote Address from the February 7th Indian River Lagoon Symposium: Quo Vadis Northern Indian River Lagoon? What Recent Lagoon Conditions Might Tell Us about the Future – Dr. Chuck Jacoby, Lead Scientist, Indian River Lagoon Basin, SJRWMD

Explanation of Monthly Project Performance Table – Brandon Smith, Environmental Specialist, NRMD

May 2019

Lagoon Loyalty Outreach and Engagement – Walter C. Wood, Marketing Talent Network Advertising and Susan Sperling, Marketing Talent Network Advertising

Using Science to Guide Educational Communications: Grass Clippings Campaign – Dr. Leesa Souto, MRC

Mosquito Control – Joe Faella, Brevard County Mosquito Control

Septic Upgrade Media Evaluation Memorandum of Understanding with Florida Department of Health – Anthony Gubler, Environmental Specialist, NRMD

*Cone Road Project Tour – Merritt Island – Members of the Save Our Indian River Lagoon Citizens Oversight Committee, Brevard County staff and members of the Public toured the Cone Road Project Site on May 31, 2019.

July 2019

Sewer Line Inspections Panel – Chris Little, Utilities Director, City of Palm Bay; Adam Marrara, Florida Home Inspection Bureau; and Stephen Rowe, Anchor Plumbing

Story Map - Matt Badolato, NRMD

Project Video: Muck dredging in the City of Cocoa Beach, featuring Wayne Carragino, Project Manager, City of Cocoa Beach.

August 2019

Turkey Creek Watershed Video – Virginia Barker

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

State Roads 528 and 520 Causeway versus Bridge Span Update – Numerical Modeling Addendum Report by Dr. Gary Zarillo, FIT

Lagoon Restoration Perspectives from a Waterman's Point of View – Captain Frank Catino, Mayor Satellite Beach

September 2019

Muck Research Updates: P-and-Ammonium + Oxygen in the Indian River Lagoon – Dr. Austin Fox, FIT

Save Our Indian River Lagoon Community Survey – Holly Abeels, UF, IFAS, Sea Grant Extension Agent

A Message of Hope from Indian River Lagoon Water Quality Data – Matt Badolato NRMD

October 2019

August 2019 Half Cent Sales Tax – SOIRL Project Status Report Presented to the Brevard County Audit Committee by the county's Contracted Auditor, R.S.M. U.S. L.L.P. – Jill Reyes C.I.A., C.F.E.

Harvesting Nutrients from Stormwater Ponds – Jennifer Thompson, Environmental Specialist, Brevard County Stormwater Utility.

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Grand Canal Sediment Testing Update – Jim Langenbach, P.E., B.C.E.E., Geosyntec Consultants

December 2019

Living Shoreline Monitoring – Dr. Linda Walters and Dr. Melinda Donnelly, University of Central Florida

Preliminary Results from the Leaky Lateral Groundwater Monitoring – Dr. Claudia Listopad, Applied Ecology, Inc.

Benefits of Smoke Testing Projects, Edward Fontanin, P.E., Director, Brevard County Utility Services

January 2020

Water Less: Four Strategies to Decrease Your Home's Use – Dr. Jennifer Mitchell, SJRWMD

February 2020

Legacy Loads – Human Sources of Microbial Populations in Indian River Lagoon Muck – Drew Palmer, PhD, FIT

Federal and State Legislative Update – Dr. Duane De Freese, IRL Council & IRL National Estuary Program

Story Map Addition: Reclaimed Water Layer – Matt Badolato, Associate Environmental Specialist, NRMD

March 2020 – Significant COVID Impacts on COC Meetings began here

May 2020

St. Johns River Water Management District Efforts for the Indian River Lagoon – Dr. Charles Jacoby, Supervising Environmental Scientist Estuaries Section and Lead Scientist, Indian River Lagoon Basin, Bureau of Water Resources, SJRWMD

IRL Clam Restoration Project Update – Dr. Todd Osborne, UCF

Florida Fish and Wildlife Conservation Commission Efforts for the Indian River Lagoon – Jeff Beal, FWCC

Lagoon Water Quality: Dredging, Droughts and Deposition – Matt Badolato, NRMD

July 2020

Clean Waterways Act & Lagoon Funding – Senator Debbie Mayfield, District 17

A Day in the Life of the Indian River Lagoon – Missy Weiss, ORCA

Lagoon Loyal Launch – Jessica Payne, Account Manager, and Jamie Guth, Art Director, MTN

Project Video: Broadway Stormwater Pond Bio-Activated Media Addition Project

August 2020

Derelict Vessels – Matt Culver, Brevard County Boating & Waterways Program Coordinator

Project Videos (2): In-Ground Nitrogen Reducing Biofilter Septic Upgrades Project, and Sylvan Estates Septic to Sewer Project

Leaky Lateral Grant Program – Virginia Barker, Director NRMD

September 2020

Merritt Island Redevelopment Agency – Cone Road Septic to Sewer Update – Cynthia Thurman, MIRA

Plumber Request for Qualifications Update – Matt Badolato, Environmental Specialist

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Extracted from SOIRL COC Meeting Minutes (Page 6 of 7)**

Clam Aquaculture Incentive Program – Matt Badolato and Jenny Hansen, NRMD

Pro-rated possibility for Septic Upgrades and Sewer Connections – Matt Badolato, NRMD

Project Videos (2): Living Shoreline Demonstration Project, and Oyster Monitoring Project

October 2020

Dolphins of the Indian River Lagoon: Sentinels of Estuary Health – Megan Stolen, Hubbs Sea World Research Institute

The Fast and the Furriest: Otters of the Lagoon Watershed – Megan Stolen, Hubbs SeaWorld Res. Instit.

Environmental Modeling of Muck Dredging Benefits – Dr. Gary Zarillo, FIT

Water Quality Monitoring Data – Virginia Barker, Director NRMD

Project Video: Offline Stormwater Treatment

November 2020

Citizen Science Video Featuring Missy Weiss of ORCA

Private Package Plant Loading Update – Matt Badolato, NRMD

Latest Revenue Projection Update – Virginia Barker, Director NRMD

January 2021

Helping the Lagoon Through Advocacy, Education and Citizen Engagement – Bo Platt, Board Vice President, Brevard Indian River Lagoon Coalition

Private Package Plant Opportunities – Matt Badolato, NRMD

March 2021

IRL Water Quality Report – Dr. Chuck Jacoby, Supervising Environmental Scientist, Estuaries Section and Lead Scientist, Indian River Lagoon Basin, Bureau of Water Resources, SJRWMD

Tourist Development Council + Lagoon Community Transparency Project – Becky Clarkson, contract employee

Project Video – Septic System Upgrade

April 2021

Resilient Brevard – Tara McCue, East Coast Regional Planning Council

Sustainability and Resilience Opportunities – Chris Zambito, & Joanna Switzer, Atkins North America, Inc.

Low Impact Development Retrofit Guide for Commercial and Light Industrial Facilities – Bach McClure, Brevard County Stormwater Administrator

Project Video: Draa Field Vegetative Harvesting Project, City of Titusville

May 2021

Drift Macroalgae in the Indian River Lagoon – Lauren Hall, SJRWMD

What is a Climate Ready Estuary – Randall W. Parkinson, Ph.D., P.G., RWParkinson Consulting, Inc.

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An Introduction to ORCA's One Health Fish Monitoring Citizen Science Project – Hannah Atsma, Ocean Research Conservation Association (ORCA).

Project Video: Draa Pond Floating Wetlands Project, City of Titusville

July 2021

2021 Audit Report – Jill Reyes and Laura Manlove, Directors at RSM US LPP

Wastewater Asset Management Overview – Todd Swingle, P.E., Exec. Director, Toho Water Authority

City of Melbourne Baffle Box Program – Danielle Straub, P.E. Engineering Project Manager

Project Video: Oak Point Package Plant Conversion to Central Sewer

August 2021

Getting Ready for Shovel-Ready Seagrass Restoration – Mark S. Fonseca, Ph.D., CSA Ocean Sciences Inc.

Manatee Habitat Enhancement of the Atlantic Estuaries – Julie Mitchell, FWCC

Brevard Zoo Lagoon Restoration: Past, Present and Future – Ashley Rearden, Brevard Zoo

Project Videos (2): Jackson Court Stormwater Treatment Train Project and Ray Bullard Stormwater Management Area Project

September 2021

Tiny Bubbles: Is Aeration a Viable Solution to improve Water Quality in the IRL? – Dr. Austin Fox, FIT

Subaqueous Sand Capping to Mitigate Releases of Nitrogen and Phosphorus from Muck Deposits. – Dr. Austin Fox, & Abbey Gering, FIT

Restore Lagoon Inflow Project – Dr. Jeff Eble & Dr. Austin Fox, FIT

October 2021

Junior Achievement Lagoon STEM Pilot Program – Anne Conroy-Baiter, President, Junior Achievement of the Space Coast

Cocoa Beach Golf Muck Dredging/Capping Study – Jim Langenbach, Geosyntec Consultants

Geochemical Nutrient Cycling in the IRL: Historical Perspectives, Ocean Inflow and the Future – Dr. Austin Fox, Florida Institute of Technology

Tracking Changes, Improving Outcomes and Measuring Success: A Story of Oxygen in the Lagoon – Dr. Austin Fox, Florida Institute of Technology

November 2021

Project Video: Cocoa Beach Convair Cove Low Impact Development Project

**Some important topics have been presented at each SOIRL COC meeting. This list was extracted from meeting minutes by John Windsor, COC member. The list only includes informational presentations and not the regular business conducted at each meeting such as progress reports and budget updates.

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

November 19, 2021 – 8:30 a.m.
2725 Judge Fran Jamieson Way,
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 – Vice Chair	Yes	Kimberly Newton	Yes
Finance	Courtney Barker	Yes	Todd Swingle	No
Tourism	David Lane	No	Laurilee Thompson	Yes
Real Estate	Susan Hodgers	No	Dennis Basile	No
Lagoon Advocacy	John Windsor	Yes	Terry Casto	Yes

Staff Present:

Virginia Barker, Brevard County Natural Resources Management Director
Alex Esseesse, Assistant County Attorney
Brandon Smith, Environmental Specialist
Matt Badolato, Associate Environmental Specialist
Terri Breeden, Associate Environmental Specialist
Courtney Maier, Engineer I
Walker Dawson, Engineer III
Anthony Gubler, Environmental Specialist
Crystal Melton, Department Finance Manager

I. Call to Order

It was noted that some Committee members, including the Vice-Chair, were stuck in traffic on Interstate 95. Since the Chair and the Vice-Chair were not physically present the Committee held a vote to allow a member to act as Chair.

Lorraine Koss moved to select John Windsor to act as Chair until Stephany Eley, Vice Chair, arrived to the meeting; seconded by Laurilee Thompson. Motion was unanimously approved.

Lorraine Koss moved to allow Chair Vinnie Taranto, who was attending online via Zoom, to vote virtually; seconded by Laurilee Thompson. Motion was unanimously approved.

Vinnie Taranto led the meeting from this point on.

II. Roll Call

III. Approval of the Agenda

Lorraine Koss moved to approve the Agenda as written; seconded by John Windsor. The motion was unanimously approved.

IV. Approval of Minutes

John Windsor moved to approve the meeting minutes of October 15, 2021 as written; seconded by Lorraine Koss. Motion was unanimously approved.

V. Progress and Fiscal Reports

a. Monthly Progress Report – Virginia Barker, Director

The Monthly Progress Report was given by Virginia Barker.

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

b. Monthly Revenue Graph – Crystal Melton, Finance Manager

Crystal Melton reported on the Monthly Revenue Graph.

Discussion ensued. The Committee's questions were answered by Crystal Melton.

c. Quarterly Financial Statement – Crystal Melton, Finance Manager

Crystal Melton gave an update on the Quarterly Financial Statement.

Discussion ensued. The Committee's questions were answered by Crystal Melton.

d. Quarterly Save Our Indian River Lagoon Project Performance Table Update - Terri Breeden, Associate Environmental Specialist

Terri Breeden and Project Managers gave an update on the Quarterly Progress Report, July 1 – September 30, 2021. The update included: 1) Palm Bay Waste Water Treatment Facility, Titusville Osprey Reclamation Facility, and Ray Bullard Biological Nutrient Removal projects by Terri Breeden; 2) County Septic Removal Projects – Sykes Creek Zone N, South Central Zone C, Sykes Creek Zone T, Micco Sewer Line Connections, Septic Upgrades and Quick Connects projects by Anthony Gubler; 3) City of Melbourne Septic Removal Projects by Dani Straub, City of Melbourne Engineering Project Manager; 4) Municipality Stormwater Project Updates by Terri Breeden; 5) Brevard County Muck Removal Projects by Walker Dawson, and Cocoa Beach Muck Removal Project(s) update by Terri Breeden; 6) Brevard Zoo Oyster Bars Project(s) and Oyster Gardening Project by Terri Breeden and; 7) Project Overview by Terri Breeden.

Discussion ensued. The Committee's questions were answered by Virginia Barker, Terri Breeden, Anthony Gubler and Walker Dawson.

VI. Other Reports and Special Presentations

a. Project Video – Cocoa Beach Convair Cove Low Impact Development

A project video, Cocoa Beach Convair Cove Low Impact Development, was shown. Discussion ensued. The Committee's questions were answered by Brandon Smith, Environmental Specialist, and Dani Straub, City of Melbourne.

b. Latest Revenue Projection Update – Virginia Barker

Virginia Barker gave an update on the latest revenue projection. The update included: 1) Surplus Revenues Collected in Fiscal Year 2021 based on 11 months of actuals and using inflation rates to estimate for September; 2) Savings from projects completed under budget in Fiscal Year 2021; 3) Contingency Surplus from Projects completed in Fiscal Year 2021; 4) Re-Allocation Options; and, 5) Substitution Options.

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

c. Project Funding and Substitution Options – Virginia Barker and Terri Breeden

Virginia Barker and Terri Breeden reported on Project Funding and Substitution Options.

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

d. 2022 Project Funding Requests – Terri Breeden

Terri Breeden gave an update on the Save Our Indian River Lagoon Project Applications - 2022 Table. Projects were sorted by the following: 1) eligible tax funding dollar per pound of total nitrogen, smallest to largest; 2) total cost, smallest to largest; and 3) total nitrogen reduction, largest to smallest.

There was much discussion about project(s) type(s), cost share, benefits and substitution options. The Committee's questions were answered by Virginia Barker, Terri Breeden and Anthony Gubler.

VII. Old Business

None.

VIII. New Business

a. Project Funding Recommendations for the 2022 Plan Update

A summary of new project ideas and funding requests were discussed for consideration by the Citizen Oversight Committee to be recommended for funding and inclusion in the next annual update of the Save Our Indian River Lagoon Project Plan.

Courtney Barker moved to recommend modification of the Save Our Indian River Lagoon Project Plan to include all the projects on the 2022 Project Funding Requests List with the exception of Project(s) Numbered 222, 209, 220, and 2016-

Save Our Indian River Lagoon Citizen Oversight Committee Meeting
MINUTES – November 19, 2021

31/32. For Projects numbered 153 and 2016-27 the Committee recommended approval of \$1.6 million (\$800,000 each) for design costs; seconded by Stephany Eley.

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

There were no Public Comments.

Motion was unanimously approved.

Courtney Barker moved to recommend modification of the Save Our Indian River Lagoon Project Plan to include Project(s) numbered 209 and 220 in the 2022 Project Funding Request List; seconded by Lorraine Koss.

There were no Public Comments.

Motion was passed with 5 votes in favor, Courtney Barker, Stephany Eley, Lorraine Koss, Laurilee Thompson, John Windsor; and, 1 abstention, Vinnie Taranto, due to conflict of interest.

Courtney Barker moved to recommend modification of the Save Our Indian River Lagoon Project Plan to include Project(s) numbered 2016-31/32 in the 2022 Project Funding Request List; seconded by Laurilee Thompson.

There were no Public Comments.

Motion was passed with 5 votes in favor, Courtney Barker, Stephany Eley, Vinnie Taranto, Laurilee Thompson, John Winsor; and, 1 abstention, Lorraine Koss, due to conflict of interest.

Stephany Eley moved to recommend modification of the Save Our Indian River Lagoon Project Plan to include Project numbered 222 in the 2022 Project Funding Request List, seconded by Lorraine Koss.

There were no Public Comments.

Motion was passed with 5 votes in favor, Stephany Eley, Lorraine Koss, Vinnie Taranto, Laurilee Thompson, John Windsor; and, 1 abstention, Courtney Barker, due to conflict of interest.

b. 2022 Meeting Calendar

John Windsor moved to accept the 2022 Citizen Oversight Committee Meeting Calendar as presented; Seconded by Lorraine Koss. Motion was unanimously approved.

IX. General Public Comments

Public Comments were heard.

X. Final Comments by Chair and Committee Members

Final Comments were heard.

Save Our Indian River Lagoon Citizen Oversight Committee Meeting
MINUTES – November 19, 2021

John Windsor moved to cancel the December 16, 2021 meeting; seconded by Courtney Barker.

There were no Public Comments.

Motion was unanimously approved.

XI. Adjournment

5012L

FORM 8B MEMORANDUM OF VOTING CONFLICT FOR COUNTY, MUNICIPAL, AND OTHER LOCAL PUBLIC OFFICERS

LAST NAME—FIRST NAME—MIDDLE NAME Koss, Lorraine, L		NAME OF BOARD, COUNCIL, COMMISSION, AUTHORITY, OR COMMITTEE Brevard Co. Save Our Indian River Lagoon Citizen Oversight	
MAILING ADDRESS 2115 N Indian River Drive		THE BOARD, COUNCIL, COMMISSION, AUTHORITY OR COMMITTEE ON WHICH I SERVE IS A UNIT OF:	
CITY Cocoa	COUNTY Brevard	<input type="checkbox"/> CITY	<input checked="" type="checkbox"/> COUNTY <input type="checkbox"/> OTHER LOCAL AGENCY
DATE ON WHICH VOTE OCCURRED 11-19-2021		NAME OF POLITICAL SUBDIVISION: Department of Natural Resources	
		MY POSITION IS: <input type="checkbox"/> ELECTIVE <input checked="" type="checkbox"/> APPOINTIVE	

WHO MUST FILE FORM 8B

This form is for use by any person serving at the county, city, or other local level of government on an appointed or elected board, council, commission, authority, or committee. It applies to members of advisory and non-advisory bodies who are presented with a voting conflict of interest under Section 112.3143, Florida Statutes.

Your responsibilities under the law when faced with voting on a measure in which you have a conflict of interest will vary greatly depending on whether you hold an elective or appointive position. For this reason, please pay close attention to the instructions on this form before completing and filing the form.

INSTRUCTIONS FOR COMPLIANCE WITH SECTION 112.3143, FLORIDA STATUTES

A person holding elective or appointive county, municipal, or other local public office **MUST ABSTAIN** from voting on a measure which would inure to his or her special private gain or loss. Each elected or appointed local officer also **MUST ABSTAIN** from knowingly voting on a measure which would inure to the special gain or loss of a principal (other than a government agency) by whom he or she is retained (including the parent, subsidiary, or sibling organization of a principal by which he or she is retained); to the special private gain or loss of a relative; or to the special private gain or loss of a business associate. Commissioners of community redevelopment agencies (CRAs) under Sec. 163.356 or 163.357, F.S., and officers of independent special tax districts elected on a one-acre, one-vote basis are not prohibited from voting in that capacity.

For purposes of this law, a "relative" includes only the officer's father, mother, son, daughter, husband, wife, brother, sister, father-in-law, mother-in-law, son-in-law, and daughter-in-law. A "business associate" means any person or entity engaged in or carrying on a business enterprise with the officer as a partner, joint venturer, coowner of property, or corporate shareholder (where the shares of the corporation are not listed on any national or regional stock exchange).

ELECTED OFFICERS:

In addition to abstaining from voting in the situations described above, you must disclose the conflict:

PRIOR TO THE VOTE BEING TAKEN by publicly stating to the assembly the nature of your interest in the measure on which you are abstaining from voting; *and*

WITHIN 15 DAYS AFTER THE VOTE OCCURS by completing and filing this form with the person responsible for recording the minutes of the meeting, who should incorporate the form in the minutes.

APPOINTED OFFICERS:

Although you must abstain from voting in the situations described above, you are not prohibited by Section 112.3143 from otherwise participating in these matters. However, you must disclose the nature of the conflict before making any attempt to influence the decision, whether orally or in writing and whether made by you or at your direction.

IF YOU INTEND TO MAKE ANY ATTEMPT TO INFLUENCE THE DECISION PRIOR TO THE MEETING AT WHICH THE VOTE WILL BE TAKEN:

- You must complete and file this form (before making any attempt to influence the decision) with the person responsible for recording the minutes of the meeting, who will incorporate the form in the minutes. (Continued on page 2)

APPOINTED OFFICERS (continued)

- A copy of the form must be provided immediately to the other members of the agency.
- The form must be read publicly at the next meeting after the form is filed.

IF YOU MAKE NO ATTEMPT TO INFLUENCE THE DECISION EXCEPT BY DISCUSSION AT THE MEETING:

- You must disclose orally the nature of your conflict in the measure before participating.
- You must complete the form and file it within 15 days after the vote occurs with the person responsible for recording the minutes of the meeting, who must incorporate the form in the minutes. A copy of the form must be provided immediately to the other members of the agency, and the form must be read publicly at the next meeting after the form is filed.

DISCLOSURE OF LOCAL OFFICER'S INTEREST

I, Lorraine Koss, hereby disclose that on November 19, 20 21 :

(a) A measure came or will come before my agency which (check one or more)

- inured to my special private gain or loss;
- inured to the special gain or loss of my business associate, _____ ;
- inured to the special gain or loss of my relative, _____ ;
- inured to the special gain or loss of City of Cocoa, by whom I am retained; or
- inured to the special gain or loss of _____, which is the parent subsidiary, or sibling organization or subsidiary of a principal which has retained me.

(b) The measure before my agency and the nature of my conflicting interest in the measure is as follows:

I am a Cocoa City Councilperson. The vote was to support their application for a septic to sewer program.

If disclosure of specific information would violate confidentiality or privilege pursuant to law or rules governing attorneys, a public officer, who is also an attorney, may comply with the disclosure requirements of this section by disclosing the nature of the interest in such a way as to provide the public with notice of the conflict.

3/9/2022
Date Filed


Signature

NOTICE: UNDER PROVISIONS OF FLORIDA STATUTES §112.317, A FAILURE TO MAKE ANY REQUIRED DISCLOSURE CONSTITUTES GROUNDS FOR AND MAY BE PUNISHED BY ONE OR MORE OF THE FOLLOWING: IMPEACHMENT, REMOVAL OR SUSPENSION FROM OFFICE OR EMPLOYMENT, DEMOTION, REDUCTION IN SALARY, REPRIMAND, OR A CIVIL PENALTY NOT TO EXCEED \$10,000.

APPOINTED OFFICERS (continued)

- A copy of the form must be provided immediately to the other members of the agency.
- The form must be read publicly at the next meeting after the form is filed.

IF YOU MAKE NO ATTEMPT TO INFLUENCE THE DECISION EXCEPT BY DISCUSSION AT THE MEETING:

- You must disclose orally the nature of your conflict in the measure before participating.
- You must complete the form and file it within 15 days after the vote occurs with the person responsible for recording the minutes of the meeting, who must incorporate the form in the minutes. A copy of the form must be provided immediately to the other members of the agency, and the form must be read publicly at the next meeting after the form is filed.

DISCLOSURE OF LOCAL OFFICER'S INTEREST

I, Vincent Paul Taranto Jr, hereby disclose that on November 19, 20 21 :

(a) A measure came or will come before my agency which (check one or more)

- inured to my special private gain or loss;
- inured to the special gain or loss of my business associate, _____ ;
- inured to the special gain or loss of my relative, Vincent and Maria Taranto _____ ;
- inured to the special gain or loss of _____, by whom I am retained; or
- inured to the special gain or loss of _____, which is the parent subsidiary, or sibling organization or subsidiary of a principal which has retained me.

(b) The measure before my agency and the nature of my conflicting interest in the measure is as follows:

There was a vote to approve funding a project in the canal of a piece of property my parents own.

If disclosure of specific information would violate confidentiality or privilege pursuant to law or rules governing attorneys, a public officer, who is also an attorney, may comply with the disclosure requirements of this section by disclosing the nature of the interest in such a way as to provide the public with notice of the conflict.

3/3/22

Date Filed

Vincent Taranto Jr
Signature

NOTICE: UNDER PROVISIONS OF FLORIDA STATUTES §112.317, A FAILURE TO MAKE ANY REQUIRED DISCLOSURE CONSTITUTES GROUNDS FOR AND MAY BE PUNISHED BY ONE OR MORE OF THE FOLLOWING: IMPEACHMENT, REMOVAL OR SUSPENSION FROM OFFICE OR EMPLOYMENT, DEMOTION, REDUCTION IN SALARY, REPRIMAND, OR A CIVIL PENALTY NOT TO EXCEED \$10,000.

APPOINTED OFFICERS (continued)

- A copy of the form must be provided immediately to the other members of the agency.
- The form must be read publicly at the next meeting after the form is filed.

IF YOU MAKE NO ATTEMPT TO INFLUENCE THE DECISION EXCEPT BY DISCUSSION AT THE MEETING:

- You must disclose orally the nature of your conflict in the measure before participating.
- You must complete the form and file it within 15 days after the vote occurs with the person responsible for recording the minutes of the meeting, who must incorporate the form in the minutes. A copy of the form must be provided immediately to the other members of the agency, and the form must be read publicly at the next meeting after the form is filed.

DISCLOSURE OF LOCAL OFFICER'S INTEREST

I, Courtney Barker, hereby disclose that on November 19, 20 21 :

(a) A measure came or will come before my agency which (check one or more)

- inured to my special private gain or loss;
- inured to the special gain or loss of my business associate, _____ ;
- inured to the special gain or loss of my relative, _____ ;
- inured to the special gain or loss of City of Satellite Beach _____, by whom I am retained; or
- inured to the special gain or loss of _____, which is the parent subsidiary, or sibling organization or subsidiary of a principal which has retained me.

(b) The measure before my agency and the nature of my conflicting interest in the measure is as follows:

I am employed by the City of Satellite Beach, and the vote I abstained from granted funding for a lagoon restoration project within the City limits of Satellite Beach and will be constructed and managed by the City of Satellite Beach.

If disclosure of specific information would violate confidentiality or privilege pursuant to law or rules governing attorneys, a public officer, who is also an attorney, may comply with the disclosure requirements of this section by disclosing the nature of the interest in such a way as to provide the public with notice of the conflict.

March 7, 2022
Date Filed


Signature

NOTICE: UNDER PROVISIONS OF FLORIDA STATUTES §112.317, A FAILURE TO MAKE ANY REQUIRED DISCLOSURE CONSTITUTES GROUNDS FOR AND MAY BE PUNISHED BY ONE OR MORE OF THE FOLLOWING: IMPEACHMENT, REMOVAL OR SUSPENSION FROM OFFICE OR EMPLOYMENT, DEMOTION, REDUCTION IN SALARY, REPRIMAND, OR A CIVIL PENALTY NOT TO EXCEED \$10,000.



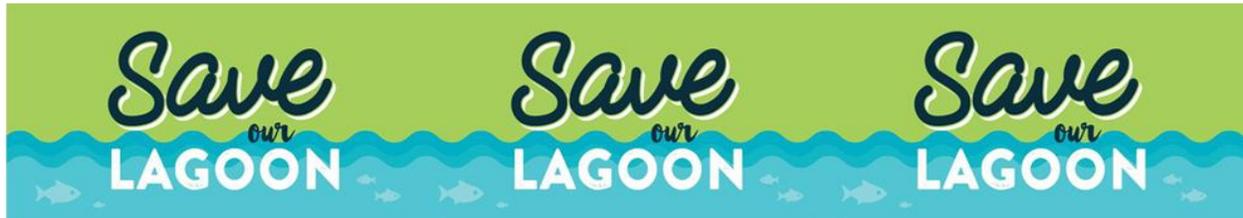
Save Our Indian River Lagoon Project Plan May 2022 Progress Report

WORK COMPLETED THIS MONTH:

- 2020 Audit was presented by the Auditors to the Brevard County Audit Committee on April 20th
- Palm Bay Water Reclamation Facility – seeded and online; nutrient reductions expected in early June
- 7 Septic Upgrade reimbursements processed for a total of 69 completed to date; mailed 5,200 postcards to priority sites; received ~260 phone calls and emails and distributed ~150 applications
- 39 Quick Connect reimbursements processed to date; mailed 930 postcards to highest priority sites
- Final sampling occurred on the pilot In-Ground Nitrogen Reducing Bioreactor Septic Drainfields
- Basin 26 Sunset Road Serenity Park Stormwater Treatment –completed
- Basin 62 Denitrification Retrofit of Johns Road Pond – completed
- Horseshoe Pond Vegetation Harvesting – completed
- Cocoa Beach Phase IIb Muck Dredging – completed
- Sykes Creek Phase 1 Muck Dredging – Pre-construction meeting held
- Riveredge Planted Shoreline – 250 linear feet completed
- University of Central Florida oyster monitoring documented sedimentation and burial at Coconut Point, growth and recruitment at Hog Point, and a sustaining oyster population at Maritime Hammock
- Derelict Vessels Removed this month – 2
- Video Completed – Eric Mannes’ My Lagoon Story
- Budget request prepared for fiscal year 2022-2023

WORK UNDERWAY THIS MONTH:

- South Central C Septic-to-Sewer – construction started in the central subdivision
- Smoke Testing on the Barrier Island underway
- Micco Septic-to-Sewer – Pre-construction meeting was held with the contractor on May 5th
- South Beaches O Septic-to-Sewer – Project bid closed May 3rd; will request lower cost from lone bidder
- Survey underway for 10 Brevard County septic-to-sewer projects
- Basin 79/Scottsmoor C & Basin 89/Scottsmoor I Stormwater Treatments – Low bid is within budget
- Johnson Junior High Modification – Awaiting construction cost estimate from Public Works
- Basin 1066 Angel Ave –Task Order scope changing to include public works drainage improvements
- Kingsmill-Aurora Phase II – Awaiting concept plans
- Basin 998 Richland Canal – Design task order is ready for signatures
- Grand Canal Muck Dredging – Removed a total of 167,000 cubic yards to date
- Eau Gallie Northeast Muck Dredging – Bid document preparation underway
- Pineda Banana River Lagoon Muck Dredging – Proposal for initial data collection under review
- Patrick Space Force Base Muck Dredging – Proposal for initial data collection under review
- Aquaculture Stimulus Program – 1 new applicant approved for grant to plant 500,000 seed clams
- Grant-funded Remote Algae Bloom Sensing study – Drone is collecting hyperspectral data; chlorophyll hotspots are being compared to potential nutrient source locations and seagrass signatures
- Video progress – Filming complete for Derelict Vessel Removal; Clam restoration filming in June



PRESENTATIONS THIS MONTH:

April 22 – [Indian River Lagoon Symposium](#) - Virginia

April 26th – Florida Water Resources Conference on Septic Upgrades and Septic to Sewer - Virginia

May 2 – Catalina Isles & Skylark Estates HOA - Anthony

May 3 & 17 – City of Cocoa Sewer Project Presentation – Anthony

May 13 – Environmental & Water Resources Institute of the American Society of Civil Engineers - Virginia

UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS:

May 5 – Indian River Lagoon National Estuary Program – Citizens’ Advisory Committee Meeting

May 10 – Team ORCA – Citizen Science Data Jam Showcase

May 10 – Indian River Lagoon National Estuary Program – Finance Subcommittee, Management Board, and Science, Technology, Engineering, and Modeling Advisory Committee Meetings

May 13 - Indian River Lagoon National Estuary Program Council Board of Directors Meeting

May 18 – [State Stormwater Draft Rule Revision Workshop](#)

June 23 – Brevard Indian River Lagoon Coalition – Lagoon Straight Talk

UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES:

May 7 – Keep Brevard Beautiful – [Minuteman Causeway Cleanup](#)

May 14 – Brevard Zoo Restore Our Shores [Oyster Supply Making](#)

May 17 – Team ORCA – Fish Processing, email [Bridget](#) to register

May 18 & 25 – Team ORCA – Fish Extractions, email [Missy Weiss](#) to register

May 21 – Brevard Zoo Restore Our Shores [River Clean-Up & Mangrove Adoption Day](#)

May 24 & 31 – Team ORCA – Pollution Mapping Particle Analysis, email [Missy Weiss](#) to register

May 25 – Team ORCA – Fish Processing, email [Missy Weiss](#) to register

May 25 – Brevard Zoo Restore Our Shores – [Oyster Gardening Training](#)

June 11 – Keep Brevard Beautiful [Summer Series Cleanup: Kiwanis Island](#)

June 25 – Keep Brevard Beautiful [Summer Series Cleanup: Titusville Spoil Islands](#)

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:

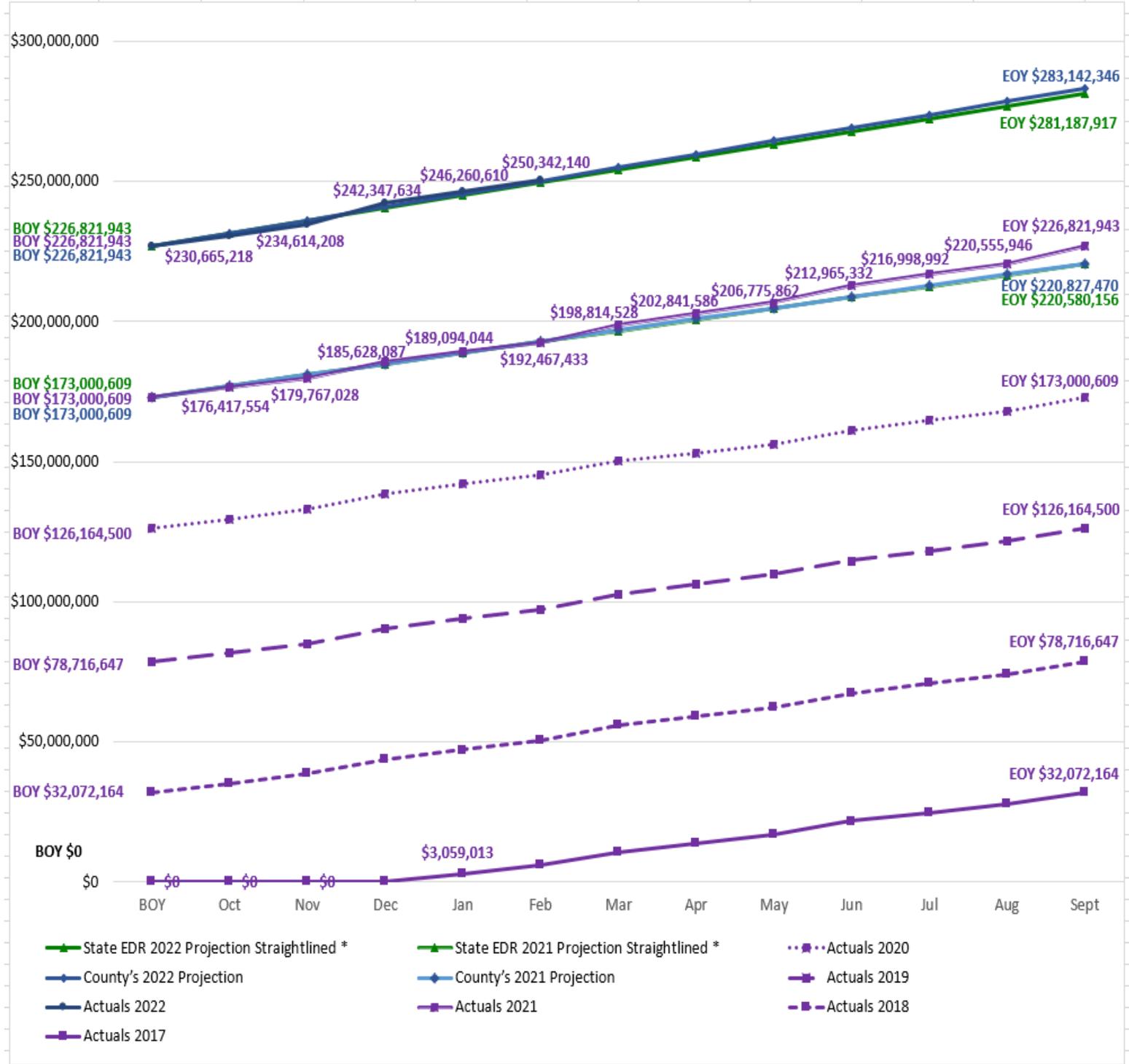
1. Low Impact Development/Resilience – Local examples, efforts, and potential opportunities
2. Stormwater Treatment Purpose, Design, and Performance
3. BioActivated Media Performance and Maintenance Requirements
4. Shoreline Armor and Living Shoreline Permitting Authorities, Rules, and Opportunities

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		\$196,790,382	\$196,914,039	\$198,814,528
Apr	\$258,535,428	\$259,675,512		\$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 – 10 May 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	\$19,438,666	39.85%
Interest Earned	\$725,952	\$251,938	34.70%
Other Federal Grants	\$3,141,901		0.00%
Federal Grants Hurricane Irma	\$1,357,269		0.00%
Other State Grants	\$9,092,186		0.00%
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	\$19,697,608	7.40%

Expenditures (Roll-Up)	Budget	Total Assigned YTD*	Actuals
Compensation & Benefits	\$904,819	\$841,100	\$402,539
Operating Expenses	\$199,645	\$164,658	\$78,653
Capital Outlay	\$29,500		
SOIRL Projects funded under Operating Expenses (Non-Capital County Project & Programs)	\$4,360,822	\$1,926,638	\$577,203
SOIRL Projects funded under Capital Improvement (County Projects over \$35K)	\$67,305,863	\$13,506,499	\$3,673,205
SOIRL Projects funded under Aid to Gov't Agencies (Cities & Water Management Districts)	\$60,721,687	\$17,152,000	\$2,899,974
SOIRL Projects funded under Aid to Private Organizations (Property Owners & Non-Government Organizations)	\$51,953,559	\$2,752,779	\$581,054
Contingency	\$11,395,538		
Reserves (for approved projects scheduled beyond this fiscal year)	\$69,313,821		
Total	\$266,185,254	\$36,343,673	\$8,212,627

Save Our Indian River Lagoon Financial Tables – Fiscal Year 21/22 Quarter 2

*Projects Completed; + Project using contingency funds; FY=Fiscal Year; TBD = To Be Determined; WWTF = Waste Water Treatment Facility

Table 1. Public Education Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
	Public Education										
58a	Expanded Fertilizer Education	Brevard County	\$625,000	\$312,500	\$0	\$0	\$120,951	\$49,477	\$46,571	\$0	\$216,999
58b	Grass Clippings Campaign	Brevard County	\$200,000	\$100,000	\$0	\$0	\$20,000	\$0	\$6,638	\$0	\$26,638
58c	Septic System Maintenance Education	Brevard County	\$300,000	\$150,000	\$0	\$0	\$48,380	\$49,245	\$22,709	\$1,030	\$121,364
193	Oyster Gardening*	Brevard Zoo	\$300,000	\$300,000	\$0	\$0	\$0	\$150,000	\$150,000	\$0	\$300,000
227	Restore Our Shores: Community Collaborative	Brevard Zoo	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Public Education Total		\$2,425,000	\$862,500	\$0	\$0	\$189,332	\$248,722	\$225,917	\$1,030	\$665,001

Table 2. Waste Water Treatment Facility Upgrades for Reclaimed Water Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
99	Cocoa Beach Water Reclamation Facility Upgrade*	Cocoa Beach	\$945,000	\$945,000	\$0	\$0	\$0	\$945,000	\$0	\$0	\$945,000
59	City of Melbourne Grant Street Water Reclamation Facility	Melbourne	\$6,769,500	\$6,769,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-17	City of Palm Bay Water Reclamation Facility	Palm Bay	\$3,636,900	\$3,636,900	\$0	\$43,573	\$101,679	\$373,976	\$2,581,471	\$374,119	\$3,474,817
2016-2	City of Titusville Osprey WWTF+	Titusville	\$8,300,000	\$8,300,000	\$0	\$90,586	\$333,705	\$528,975	\$2,288,921	\$967,149	\$4,209,337
138	Ray Bullard Water Reclamation Facility Biological Nutrient Removal Upgrades	West Melbourne	\$4,260,000	\$4,260,000	\$0	\$0	\$0	\$0	\$123,592	\$0	\$123,592
216	City of Rockledge Flow Equalization Basin Project	Rockledge	\$2,054,795	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	WWTF Upgrades for Reclaimed Water Total		\$25,966,195	\$23,911,400	\$0	\$134,159	\$435,384	\$1,847,951	\$4,993,985	\$1,341,268	\$8,752,747

Table 3. Sewer Laterals Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
63ab	Satellite Beach Pilot & Countywide Repair/Replacement	Brevard County	\$840,000	\$221,479	\$0	\$0	\$0	\$4,228	\$6,204	\$4,855	\$15,287
114	Barefoot Bay Lateral Smoke Testing	Brevard County	\$90,000	\$83,564	\$0	\$0	\$0	\$0	\$0	\$0	\$0
115	South Beaches Lateral Smoke Testing	Brevard County	\$200,000	\$195,443	\$0	\$0	\$0	\$0	\$0	\$0	\$0
116	Merritt Island Lateral Smoke Testing	Brevard County	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
100	Osprey Basin Lateral Repair Project	Titusville	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sewer Laterals Total		\$1,580,000	\$750,486	\$0	\$0	\$0	\$4,228	\$6,204	\$4,855	\$15,287

Table 4. Rapid Infiltration Basin/Sprayfield Upgrades Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
6	Long Point Park Upgrade*	Brevard County	\$22,207	\$22,207	\$22,086	\$120	\$0	\$0	\$0	\$0	\$22,207
196	Sterling House Condominium Sprayfield	Property Owner	\$60,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Rapid Infiltration Basin/Sprayfield Upgrades Total		\$82,207	\$22,207	\$22,086	\$120	\$0	\$0	\$0	\$0	\$22,207

Table 5. Package Plant Connection Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
192	Oak Point Wastewater Treatment Facility Improvements	Property Owner	\$279,000	\$279,000	\$0	\$0	\$0	\$0	\$11,403	\$59,693	\$71,096
202	Merritt Island Utility Company	Property Owner	\$1,349,445	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
228	Indian River Shores Trailer Park Wastewater Treatment	Property Owner	\$528,627	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Package Plant Connection Total		\$2,157,072	\$279,000	\$0	\$0	\$0	\$0	\$11,403	\$59,693	\$71,096

Table 6. Septic System Removal by Sewer Extension Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
2016-27	Sharpes - Zone A	Brevard County	\$7,872,000	\$529,305	\$0	\$0	\$0	\$0	\$0	\$18,763	\$18,763
2016-29	South Banana - Zone B	Brevard County	\$1,372,500	\$98,581	\$0	\$0	\$0	\$0	\$0	\$2,755	\$2,755
2016-35	South Beaches - Zone A	Brevard County	\$1,959,000	\$259,160	\$0	\$0	\$0	\$18,000	\$0	\$0	\$18,000
2016-36	South Beaches - Zone O	Brevard County	\$133,488	\$133,488	\$0	\$0	\$0	\$0	\$16,855	\$620	\$17,475
2016-37	South Beaches - Zone P	Brevard County	\$300,348	\$500,580	\$0	\$0	\$0	\$0	\$65,931	\$12,303	\$78,234
2016-50	South Central - Zone C	Brevard County	\$6,600,000	\$6,600,000	\$0	\$47,592	\$142,218	\$13,565	\$109,557	\$916,323	\$1,229,255
3	Micco Sewer Line Extension (Phase I and II)	Brevard County	\$2,239,500	\$2,239,500	\$22,620	\$128,500	\$20,115	\$30,446	\$39,290	\$6,114	\$247,085
47	Sykes Creek - Zone N	Brevard County	\$4,176,000	\$2,603,016	\$0	\$29,462	\$32,911	\$8,477	\$131,852	\$10,022	\$212,724
48	Sykes Creek - Zone M	Brevard County	\$2,697,000	\$1,868,832	\$0	\$22,400	\$53,600	\$11,200	\$9,586	\$422,073	\$518,859
49	Sykes Creek - Zone T	Brevard County	\$5,040,000	\$4,939,056	\$0	\$26,000	\$97,500	\$16,700	\$4,564	\$50,316	\$195,080
136	Micco - Zone B	Brevard County	\$9,000,000	\$2,248,125	\$0	\$0	\$0	\$0	\$0	\$62,357	\$62,357
145	Merritt Island - Zone F	Brevard County	\$1,100,000	\$170,713	\$0	\$0	\$0	\$0	\$0	\$7,132	\$7,132
146	Merritt Island - Zone C	Brevard County	\$1,580,000	\$204,375	\$0	\$0	\$0	\$0	\$0	\$8,848	\$8,848
147	Sykes Creek - Zone R	Brevard County	\$4,387,500	\$449,625	\$0	\$0	\$0	\$0	\$0	\$10,007	\$10,007
148	North Merritt Island - Zone E	Brevard County	\$3,811,500	\$554,917	\$0	\$0	\$0	\$0	\$0	\$19,478	\$19,478
150	South Central - Zone D (Brevard County)	Brevard County	\$4,774,500	\$651,403	\$0	\$0	\$0	\$0	\$0	\$0	\$0
151	Merritt Island - Zone G	Brevard County	\$16,617,000	\$2,755,456	\$0	\$0	\$0	\$0	\$0	\$80,517	\$80,517
152	Sharpes - Zone B	Brevard County	\$4,038,000	\$387,019	\$0	\$0	\$0	\$0	\$0	\$15,970	\$15,970
153	Cocoa - Zone C	Brevard County	\$800,000	\$776,884	\$0	\$0	\$0	\$0	\$0	\$24,175	\$24,175
203	South Central - Zone A	Brevard County	\$5,482,500	\$707,437	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-31/32	City of Cocoa - Zones J & K	Cocoa	\$5,622,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-28	South Central - Zone D (Melbourne)	Melbourne	\$265,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
2016-33	City of Melbourne	Melbourne	\$867,672	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2020-34	South Central - Zone F/Pineapple Avenue	Melbourne	\$1,701,972	\$1,701,972	\$0	\$0	\$0	\$0	\$0	\$87,322	\$87,322
4	Hoag Sewer Conversion	Melbourne	\$86,031	\$86,031	\$0	\$0	\$13,520	\$0	\$12,575	\$0	\$26,095
5	Pennwood Sewer Conversion*	Melbourne	\$40,632	\$40,632	\$0	\$0	\$17,074	\$0	\$0	\$0	\$17,074
61	Riverside Drive Septic-to-Sewer Conversion	Melbourne	\$262,044	\$262,044	\$0	\$0	\$0	\$0	\$0	\$0	\$0
62	Roxy Avenue Septic-to-Sewer Conversion	Melbourne	\$88,944	\$88,944	\$0	\$0	\$0	\$0	\$39,495	\$0	\$39,495
189	Avendia del Rio Septic to Sewer	Melbourne	\$70,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
190	Bowers Septic to Sewer	Melbourne	\$147,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
191	Kent and Villa Espana Septic to Sewer Conversion	Melbourne	\$710,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Merritt Island Septic Phase Out Project**	Merritt Island Redevelopment Agency	\$320,000	\$320,000	\$128,875	\$0	\$0	\$134,517	\$56,608	\$0	\$320,000
2016-39	City of Palm Bay – Zone A	Palm Bay	\$2,569,644	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-46	City of Palm Bay – Zone B	Palm Bay	\$8,309,628	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-30	City of Rockledge	Rockledge	\$500,580	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-40	Rockledge - Zone B	Rockledge	\$5,339,520	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1	Breeze Swept Septic to Sewer Connection*	Rockledge	\$880,530	\$880,530	\$0	\$880,530	\$0	\$0	\$0	\$0	\$880,530
2016-38	City of Titusville - Zone H	Titusville	\$1,168,020	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
109	City of Titusville - Zones A-G	Titusville	\$1,201,392	\$943,110	\$0	\$0	\$0	\$0	\$86,860	\$0	\$86,860
60	Sylvan Estates Septic-to-Sewer Conversion*	West Melbourne	\$1,561,215	\$1,561,215	\$0	\$19,116	\$86,928	\$658,513	\$796,657	\$0	\$1,561,215
224	Lake Ashley Circle	West Melbourne	\$1,704,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
225	Dundee Circle and Manor Place	West Melbourne	\$2,248,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Septic System Removal by Sewer Extension Total		\$119,645,660	\$34,561,950	\$151,495	\$1,153,600	\$463,866	\$891,419	\$1,369,831	\$1,755,096	\$5,785,306

Table 7. Septic System Removal by Sewer Connection Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
2016-16	Banana Septic System 144 Quick Connections	Property Owners	\$1,905,729	\$36,000	\$0	\$0	\$0	\$0	\$21,729	\$5,109	\$26,838
2016-18	North IRL Septic System 463 Quick Connections	Property Owners	\$6,018,000	\$566,120	\$0	\$0	\$0	\$0	\$534,000	\$32,120	\$566,120
2016-19	Central IRL Septic System 269 Quick Connections	Property Owners	\$3,354,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$9,000	\$9,000
222	Hedgecock/Grabowsky & Desoto Fields	Satellite Beach	\$39,447	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Septic System Removal by Sewer Connection Total		\$11,317,176	\$614,120	\$0	\$0	\$0	\$0	\$555,729	\$46,228	\$601,957

Table 8. Septic System Upgrades Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
51	Banana River Lagoon 100 Septic System Upgrades	Private Citizens	\$1,800,000	\$54,000	\$0	\$0	\$0	\$0	\$0	\$36,000	\$36,000
52	North IRL 586 Septic System Upgrades	Private Citizens	\$10,548,000	\$397,897	\$0	\$0	\$0	\$176,100	\$108,000	\$113,797	\$397,897

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
53	Central IRL 939 Septic System Upgrades	Private Citizens	\$16,885,106	\$792,000	\$0	\$0	\$0	\$34,485	\$452,621	\$140,328	\$627,434
	Septic System Upgrades Total		\$29,233,106	\$1,243,897	\$0	\$0	\$0	\$210,585	\$560,621	\$290,125	\$1,061,330

Table 9. Stormwater Projects Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
2016-41	Banana River Lagoon 65 Basin Projects	Brevard County	\$14,156,065	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-42	North IRL 96 Basin Projects	Brevard County	\$21,868,928	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-43	Central IRL 8 Basin Projects	Brevard County	\$3,258,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	Denitrification Retrofit of Johns Road Pond	Brevard County	\$105,512	\$105,512	\$0	\$17,173	\$6,320	\$3,738	\$0	\$78,282	\$105,512
22	Kingsmill-Aurora Phase Two	Brevard County	\$367,488	\$367,488	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	Denitrification Retrofit of Huntington Pond	Brevard County	\$104,720	\$104,720	\$0	\$9,074	\$0	\$0	\$0	\$0	\$9,074
24	Denitrification Retrofit of Flounder Creek Pond	Brevard County	\$75,328	\$75,328	\$0	\$19,923	\$0	\$0	\$0	\$0	\$19,923
85	Basin 1304 Bioreactor*	Brevard County	\$90,000	\$90,000	\$0	\$0	\$0	\$0	\$83,029	\$0	\$83,029
87	Basin 2134 Fleming Grant Biosorption Activated Media*	Brevard County	\$56,588	\$56,588	\$0	\$0	\$0	\$56,588	\$0	\$0	\$56,588
89	Basin 1298 Bioreactor*	Brevard County	\$86,198	\$86,198	\$0	\$0	\$0	\$0	\$85,829	\$0	\$85,829
90	Basin 51 Johns Road Pond Biosorption Activated Media*	Brevard County	\$23,030	\$23,030	\$0	\$0	\$0	\$0	\$23,030	\$0	\$23,030
91	Basin 100 Burkholm Road Biosorption Activated Media*	Brevard County	\$64,390	\$64,390	\$0	\$0	\$0	\$0	\$64,390	\$0	\$64,390
92	Basin 115 Carter Road Biosorption Activated Media*	Brevard County	\$62,510	\$62,510	\$0	\$0	\$0	\$62,510	\$0	\$0	\$62,510
93	Basin 193 Wiley Avenue Biosorption Activated Media*	Brevard County	\$82,735	\$82,735	\$0	\$0	\$0	\$0	\$82,735	\$0	\$82,735
94	Basin 832 Broadway Pond Biosorption Activated Media*	Brevard County	\$42,864	\$42,864	\$0	\$0	\$0	\$42,864	\$0	\$0	\$42,864
117	Basin 10 County Line Road Woodchip Bioreactor*	Brevard County	\$72,773	\$72,773	\$0	\$0	\$0	\$72,773	\$0	\$0	\$72,773
118	Basin 26 Sunset Road Serenity Park Woodchip Bioreactor	Brevard County	\$73,810	\$73,810	\$0	\$0	\$0	\$0	\$0	\$73,810	\$73,810
119	Basin 141 Irwin Avenue Woodchip Bioreactor*	Brevard County	\$69,174	\$69,174	\$0	\$0	\$0	\$0	\$69,174	\$0	\$69,174
121	Basin 2258 Babcock Road Woodchip Bioreactor	Brevard County	\$50,203	\$50,203	\$0	\$0	\$0	\$0	\$0	\$0	\$0
122	Basin 22 Huntington Road Woodchip Bioreactor*	Brevard County	\$40,077	\$40,077	\$0	\$0	\$0	\$0	\$40,077	\$0	\$40,077
205	Basin 998 Hampton Homes	Brevard County	\$194,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
206	Basin 1066 Angel Ave	Brevard County	\$232,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
207	Basin 1124 Elliot D Canal	Brevard County	\$148,100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
213	Johnson Junior High Denitrification Media Chamber Modification	Brevard County	\$64,478	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
215	Basin 960 Pioneer Road Denitrification	Brevard County	\$38,850	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
220	Basin 1398 Sand Dollar Canal Bioreactor	Brevard County	\$198,024	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
229	Basin 1280B Flamingo Road Denitrification	Brevard County	\$71,645	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
230	Basin 1304B West Arlington Road Denitrification	Brevard County	\$96,425	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
231	Basin 89 Scottsmoor I Aurantia Road Denitrification	Brevard County	\$245,100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Central Boulevard Baffle Box*	Cape Canaveral	\$34,700	\$34,700	\$0	\$34,700	\$0	\$0	\$0	\$0	\$34,700
14	Church Street Type II Baffle Box*	Cocoa	\$88,045	\$88,045	\$0	\$0	\$20,856	\$67,189	\$0	\$0	\$88,045
124	Floating Wetlands to Existing Stormwater Ponds*	Cocoa	\$1,497	\$1,497	\$0	\$0	\$0	\$0	\$1,497	\$0	\$1,497

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
125	Diamond Square Stormwater Pond	Cocoa	\$10,383	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
129	Forrest Avenue 72-inch Outfall Baseflow Capture/Treatment	Cocoa	\$13,956	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
177	North and South Lakemont Ponds Floating Wetlands	Cocoa	\$13,054	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
64	Stormwater Low Impact Development Convair Cove 1 – Blakey Boulevard	Cocoa Beach	\$4,650	\$4,650	\$0	\$0	\$0	\$0	\$0	\$0	\$0
65	Stormwater Low Impact Development Convair Cove 2 – Dempsey Drive	Cocoa Beach	\$4,495	\$4,495	\$0	\$0	\$0	\$0	\$0	\$0	\$0
219	McNabb Outfall Bioretention	Cocoa Beach	\$19,423	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
221	Burriss Way Alley West Stormwater Low Impact Development	Cocoa Beach	\$1,249	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
127	Basin 5 Dry Retention*	Indialantic	\$16,680	\$16,680	\$0	\$0	\$0	\$0	\$16,680	\$0	\$16,680
16	Gleason Park Reuse*	Indian Harbour Beach	\$4,224	\$4,224	\$0	\$4,224	\$0	\$0	\$0	\$0	\$4,224
66	Big Muddy at Cynthia Baffle Box*	Indian Harbour Beach	\$67,532	\$67,532	\$0	\$0	\$0	\$9,388	\$50,243	\$0	\$59,631
34	Cliff Creek Baffle Box*	Melbourne	\$347,781	\$347,781	\$0	\$0	\$0	\$347,781	\$0	\$0	\$347,781
35	Thrush Drive Baffle Box*	Melbourne	\$322,200	\$322,200	\$0	\$0	\$0	\$0	\$322,200	\$0	\$322,200
67	Grant Place Baffle Box	Melbourne	\$82,481	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
69	Apollo/GA Baffle Box	Melbourne	\$297,522	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
95	Cherry Street Baffle Box	Melbourne	\$306,740	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
96	Spring Creek Baffle Box	Melbourne	\$330,841	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
88	Espanola Baffle Box	Melbourne	\$105,186	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
169	Sherwood Park Stormwater Quality Project**	Melbourne	\$292,400	\$292,400	\$0	\$0	\$0	\$0	\$292,400	\$0	\$292,400
175	High School Baffle Box	Melbourne	\$144,326	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
176	Funeral Home Baffle Box	Melbourne	\$58,682	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Bayfront Stormwater Project*	Palm Bay	\$30,624	\$30,624	\$0	\$30,624	\$0	\$0	\$0	\$0	\$30,624
128	Jackson Court Stormwater Treatment Facility	Satellite Beach	\$8,266	\$8,266	\$0	\$0	\$0	\$0	\$0	\$8,266	\$8,266
179	Lori Laine Basin Pipe Improvement Project	Satellite Beach	\$17,525	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
68	Crane Creek/M-1 Canal Flow Restoration	St. Johns Water Management District	\$2,033,944	\$2,033,944	\$0	\$0	\$65,949	\$34,051	\$0	\$0	\$100,000
19	St. Teresa Basin Treatment*	Titusville	\$272,800	\$272,800	\$0	\$0	\$0	\$272,800	\$0	\$0	\$272,800
20	South Street Basin Treatment*	Titusville	\$86,856	\$86,856	\$0	\$0	\$0	\$86,856	\$0	\$0	\$86,856
21	La Paloma Basin Treatment*	Titusville	\$208,296	\$208,296	\$0	\$0	\$0	\$208,296	\$0	\$0	\$208,296
97	Titusville High School Baffle Box	Titusville	\$111,813	\$111,813	\$0	\$0	\$0	\$0	\$0	\$111,813	\$111,813
98	Coleman Pond Managed Aquatic Plant System*	Titusville	\$11,438	\$35,000	\$0	\$0	\$0	\$11,438	\$0	\$0	\$11,438
110	Osprey Plant Pond Managed Aquatic Plant Systems*	Titusville	\$60,000	\$60,000	\$0	\$0	\$0	\$0	\$37,500	\$0	\$37,500
120	Draa Field Pond Managed Aquatic Plant Systems*	Titusville	\$31,281	\$31,281	\$0	\$0	\$0	\$0	\$31,281	\$0	\$31,281
174	St. Johns 2 Baffle Box	Titusville	\$243,070	\$243,070	\$0	\$0	\$0	\$0	\$0	\$0	\$0
178	Marina B Managed Aquatic Plant Systems*	Titusville	\$6,670	\$6,670	\$0	\$0	\$0	\$0	\$6,670	\$0	\$6,670
214	Sand Point Park Baffle Box	Titusville	\$137,135	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
123	Ray Bullard Water Reclamation Facility Stormwater Management Area	West Melbourne	\$160,674	\$160,674	\$0	\$0	\$0	\$0	\$52,368	\$24,261	\$76,629
	Stormwater Projects Total		\$48,028,554	\$5,940,898	\$0	\$115,717	\$93,125	\$1,276,271	\$1,259,102	\$296,432	\$3,040,647

Table 10. Vegetation Harvesting Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
112	County Wide Stormwater Pond Harvesting*	Brevard County	\$14,000	\$14,000	\$0	\$0	\$0	\$0	\$14,000	\$0	\$14,000
172	Horseshoe Pond Vegetative Harvesting	Brevard County	\$8,140	\$8,140	\$0	\$0	\$0	\$0	\$0	\$0	\$0
209	Basin 1398 Sand Dollar Canal Harvesting	Brevard County	\$24,420	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
210	Basin 958 Pioneer Road Vegetation Harvesting	Brevard County	\$39,930	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
173	North and South Lakemont Ponds Vegetation Harvesting	Cocoa	\$1,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
208	Maritime Hammock Preserve Stormwater Pond Vegetation Harvesting	Cocoa Beach	\$7,700	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
211	Cocoa Beach Golf Course Stormwater Pond Harvesting	Cocoa Beach	\$216,150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
171	Mechanical Aquatic Vegetation Harvesting	Melbourne Tillman Water Control District	\$1,011,976	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
111	Draa Field Vegetation Harvesting*	Titusville	\$50,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000
	Vegetation Harvesting Total		\$1,374,296	\$72,140	\$0	\$0	\$0	\$0	\$14,000	\$50,000	\$64,000

Table 11. Muck Removal & Interstitial Treatment Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
2016-3a & b	Muck Re-dredging in Turkey Creek & Interstitial Treatment (pending FEMA reimbursement)*	Brevard County	\$137,329	\$215,000	\$0	\$1,092,823	\$5,807	\$0	\$0	\$0	\$1,098,631
2016-04a & b	Rockledge A Muck & Interstitial Treatment	Brevard County	\$5,010,244	\$175,340	\$0	\$0	\$9,949	\$116,417	\$16,965	\$0	\$143,331
2016-05a & b	Pineda Banana River Lagoon & Interstitial Treatment	Brevard County	\$7,815,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-06a & b	Titusville Railroad West & Interstitial Treatment	Brevard County	\$3,607,375	\$146,361	\$0	\$0	\$24,209	\$91,146	\$27,752	\$0	\$143,107
2016-07a & b	National Aeronautics and Space Administration Causeway East & Interstitial Treatment	Brevard County	\$11,423,355	\$209,255	\$0	\$0	\$41,009	\$137,935	\$3,115	\$0	\$182,059
2016-08a & b	Titusville Railroad East & Interstitial Treatment	Brevard County	\$4,609,424	\$318,457	\$0	\$62,449	\$29,410	\$53,221	\$123,419	\$0	\$268,499
2016-10a & b	Canaveral South & Interstitial Treatment	Brevard County	\$16,834,419	\$69,957	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-11a & b	Patrick Air Force Base & Interstitial Treatment	Brevard County	\$8,216,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
40	Mims Muck Removal Outflow Water Nutrient Removal*	Brevard County	\$400,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
41a & b	Grand Canal Muck & Interstitial Treatment	Brevard County	\$18,020,368	\$18,020,368	\$0	\$0	\$1,060,449	\$793,450	\$1,984,733	\$1,059,151	\$4,897,784
42a & b	Sykes Creek Muck & Interstitial Treatment	Brevard County	\$15,954,132	\$948,508	\$0	\$0	\$6,900	\$814,428	\$30,780	\$81,939	\$934,047
54a & b	Eau Gallie Northeast Muck & Interstitial Treatment	Brevard County	\$10,020,487	\$117,094	\$0	\$62,449	\$0	\$0	\$54,645	\$5,613	\$122,706
71	Merritt Island Muck Removal – Phase 1	Brevard County	\$7,733,517	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
70a	Cocoa Beach Muck Dredging – Phase III*	Cocoa Beach	\$1,376,305	\$1,376,305	\$0	\$359,660	\$708,458	\$308,187	\$0	\$0	\$1,376,305
101	Cocoa Beach Muck Dredging Phase II-B	Cocoa Beach	\$5,917,650	\$5,917,650	\$0	\$0	\$339,340	\$2,320,973	\$1,634,477	\$1,092,931	\$5,387,721
168a & b	Cocoa Beach Golf Muck & Interstitial Treatment	Cocoa Beach	\$24,363,100	\$24,363,100	\$0	\$0	\$0	\$0	\$402,766	\$147,700	\$550,466
72a & b	Muck Removal of Indian Harbour Beach Canals & Interstitial Treatment	Indian Harbour Beach	\$9,115,415	\$9,115,415	\$0	\$0	\$0	\$0	\$0	\$0	\$0
223	Spring Creek Dredging	Melbourne	\$80,080	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
144 & 113	Satellite Beach Muck Dredging & Interstitial Treatment	Satellite Beach	\$4,941,981	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Muck Removal & Interstitial Treatment Total		\$155,577,961	\$61,392,810	\$0	\$1,577,382	\$2,225,533	\$4,635,757	\$4,278,652	\$2,387,334	\$15,104,657

Table 12. Oyster Bars Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
2016-55	Banana River Lagoon County Oyster Bars	Brevard County	\$3,102,755	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016-56	North IRL County Oyster Bars	Brevard County	\$2,885,834	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
73	RiverView Senior Resort Oyster Bar*	Brevard County	\$30,304	\$30,304	\$0	\$30,304	\$0	\$0	\$0	\$0	\$30,304
226	Hog Point Offshore Oyster Bar	Brevard County	\$50,022	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
75	Marina Isles Oyster Bar*	Brevard Zoo	\$26,700	\$26,700	\$0	\$0	\$0	\$26,700	\$0	\$0	\$26,700
76	Bettinger Oyster Bar*	Brevard Zoo	\$10,680	\$10,680	\$0	\$0	\$10,680	\$0	\$0	\$0	\$10,680
79	Gitlin Oyster Bar*	Brevard Zoo	\$16,020	\$16,020	\$0	\$0	\$16,020	\$0	\$0	\$0	\$16,020
80	Coconut Point/Environmentally Endangered Lands Oyster Bar*	Brevard Zoo	\$45,120	\$45,120	\$0	\$0	\$0	\$45,120	\$0	\$0	\$45,120
81	Wexford Oyster Bar*	Brevard Zoo	\$31,150	\$31,150	\$0	\$0	\$0	\$0	\$31,150	\$0	\$31,150
83	Bomalaski Oyster Bar*	Brevard Zoo	\$8,900	\$8,900	\$0	\$8,900	\$0	\$0	\$0	\$0	\$8,900
104	Brevard Zoo Banana River Oyster Project	Brevard Zoo	\$583,020	\$583,020	\$0	\$0	\$0	\$0	\$19,424	\$0	\$19,424
105	Brevard Zoo Central IRL Oyster Project	Brevard Zoo	\$161,160	\$161,160	\$0	\$0	\$68,329	\$61,236	\$20,459	\$0	\$150,024
106	Brevard Zoo North IRL Oyster Project	Brevard Zoo	\$341,280	\$341,280	\$0	\$0	\$0	\$164,994	\$4,194	\$6,946	\$176,134
139	Brevard Zoo North IRL Oyster Project 2	Brevard Zoo	\$336,400	\$336,400	\$0	\$0	\$0	\$0	\$45,913	\$1,626	\$47,539
140	Brevard Zoo Central IRL Oyster Project 2	Brevard Zoo	\$270,800	\$270,800	\$0	\$0	\$0	\$34,969	\$15,653	\$0	\$50,622
141	Brevard Zoo Banana River Oyster Project 2	Brevard Zoo	\$264,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
142	Brevard Zoo Oyster Reef Adjustments North IRL	Brevard Zoo	\$27,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
143	Brevard Zoo Oyster Reef Adjustments Banana River	Brevard Zoo	\$12,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
184	Brevard Zoo North Indian River Lagoon Oyster Project 3	Brevard Zoo	\$419,232	\$419,232	\$0	\$0	\$0	\$0	\$38,943	\$17,787	\$56,730
185	Brevard Zoo Central Indian River Lagoon Tributary Pilot Oyster Project	Brevard Zoo	\$230,657	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
186	Brevard Zoo North Indian River Lagoon Individual Oyster Project	Brevard Zoo	\$173,092	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
187	Brevard Zoo Central Indian River Lagoon Oyster Project 3	Brevard Zoo	\$86,546	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
188	Brevard Zoo Banana River Oyster Project 3	Brevard Zoo	\$56,771	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
217	Brevard Zoo Central Indian River Lagoon Oyster Project 4	Brevard Zoo	\$138,156	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
218	Central Oyster Project Offshore Reefs	Brevard Zoo	\$357,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
78a	McNabb Park Oyster Bar	Cocoa Beach	\$34,056	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
82a	Riverview Park Oyster Bar	Melbourne	\$108,790	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
	Oyster Bars Total		\$9,809,545	\$2,280,766	\$0	\$39,204	\$95,029	\$333,018	\$175,735	\$26,359	\$669,346

Table 13. Planted Shorelines Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
212	Titusville Causeway Multi-Trophic Restoration & Living Shoreline	Brevard County	\$31,440	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
103	Brevard Zoo North IRL Plant Project*	Brevard Zoo	\$720	\$720	\$0	\$0	\$0	\$720	\$0	\$0	\$720
130	Brevard Zoo North IRL Plant Project 2*	Brevard Zoo	\$9,840	\$9,840	\$0	\$0	\$0	\$0	\$9,840	\$0	\$9,840
78b	McNabb Park Planted Shoreline	Cocoa Beach	\$5,760	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
77a	Cocoa Beach Country Club Planted Shoreline**	Marine Resources Council	\$16,014	\$16,014	\$0	\$16,014	\$0	\$0	\$0	\$0	\$16,014
77b	Lagoon House Shoreline Restoration Planting**	Marine Resources Council	\$23,961	\$23,961	\$0	\$23,961	\$0	\$0	\$0	\$0	\$23,961
133	Fisherman's Landing*	Marine Resources Council	\$4,800	\$4,800	\$0	\$0	\$0	\$4,800	\$0	\$0	\$4,800
135	Rotary Park*	Marine Resources Council	\$4,800	\$4,800	\$0	\$0	\$0	\$4,800	\$0	\$0	\$4,800
180	Scottsmoor Impoundment	Marine Resources Council	\$10,560	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
181	Riveredge	Marine Resources Council	\$4,080	\$4,080	\$0	\$0	\$0	\$0	\$0	\$0	\$0
82b	Riverview Park Planted Shoreline	Melbourne	\$18,480	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Planted Shorelines Total		\$130,455	\$64,215	\$0	\$39,975	\$0	\$10,320	\$9,840	\$0	\$60,135

Table 14. Clam Restoration Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
194	Aquaculture Stimulus Program	Private Citizens	\$60,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Clam Restoration Total		\$60,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Table 15. Monitoring & Respond Projects Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
	Living Shoreline Monitoring	Brevard County		\$ 333,480	\$0	\$15,529	\$66,352	\$86,116	\$112,554	\$16,735	\$297,286
	Groundwater/Water Quality Monitoring	Brevard County		\$ 1,459,729	\$0	\$92,308	\$119,031	\$350,621	\$345,421	\$222,089	\$1,129,469
	Stormwater Monitoring	Brevard County		\$ 40,756	\$0	\$0	\$256	\$40,500	\$0	\$0	\$40,756
	Sewer/Septic Monitoring	Brevard County		\$ 642,015	\$0	\$31,313	\$116,099	\$7,977	\$82,267	\$96,926	\$334,582

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
	Muck Dredging Monitoring	Brevard County		\$ 417,335	\$0	\$5,204	\$38,997	\$233,562	\$35,690	\$18,750	\$332,203
	Plan Updates	Brevard County		\$130,371	\$17,105	\$20,682	\$23,067	\$16,779	\$18,183	\$19,734	\$115,549
	Monitoring & Respond Projects Total		\$10,000,000	\$3,023,686	\$17,105	\$165,036	\$363,802	\$735,554	\$594,114	\$374,233	\$2,249,845

Table 16. Contingency & Inflation Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
2016-2	City of Titusville Osprey WWTF ⁺	Titusville		\$800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
77a	Cocoa Beach Country Club Planted Shoreline ^{**}	Marine Resources Council		\$66	\$0	\$66	\$0	\$0	\$0	\$0	\$66
77b	Lagoon House Shoreline Restoration Planting ^{**}	Marine Resources Council		\$39	\$0	\$39	\$0	\$0	\$0	\$0	\$39
169	Sherwood Park Stormwater Quality Project ⁺	Melbourne		\$99,708	\$0	\$0	\$0	\$0	\$52,961	\$0	\$52,961
2	Merritt Island Septic Phase Out Project ^{**}	Merritt Island Redevelopment Agency		\$268	\$0	\$0	\$0	\$0	\$268	\$0	\$268
5	Pennwood Sewer Conversion ⁺	Melbourne		\$40,368	\$0	\$0	\$0	\$0	\$0	\$0	\$0
41a & b	Grand Canal Muck & Interstitial Treatment	Brevard County		\$217,053	\$0	\$0	\$0	\$0	\$0	\$0	\$0
111	Draa Field Vegetation Harvesting [*]	Titusville		\$36,413	\$0	\$0	\$0	\$0	\$0	\$36,413	\$36,413
	Contingency Projects Total		\$19,814,425	\$1,193,915	\$0	\$105	\$0	\$0	\$53,229	\$36,413	\$89,747
	Inflation		\$104,840,456	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Table 17. Projects Total Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4	FY 2022 Actuals Year 5	Cumulative Actuals
-	Total		\$542,040,108	\$136,225,990	\$190,686	\$3,225,298	\$3,866,071	\$10,193,825	\$14,108,361	\$6,669,065	\$38,253,306

Save Our Indian River Lagoon Performance Tables – Fiscal Year 21/22 Quarter 2

*Projects Completed; + Project using contingency funds; FY=Fiscal Year; TBD = To Be Determined; WWTF = Waste Water Treatment Facility

Table 1. Public Education Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
58a	Expanded Fertilizer Education	Brevard County	\$625,000	6,613	813	Complete	Complete	100%	55%
58b	Grass Clippings Campaign	Brevard County	\$200,000	17,800	1,200	Complete	Complete	100%	45%
58c	Septic System Maintenance Education	Brevard County	\$300,000	4,466	TBD	Complete	Complete	100%	55%
193	Oyster Gardening	Brevard Zoo	\$300,000	N/A	N/A	Complete	Complete	100%	100%
227	Restore Our Shores: Community Collaborative	Brevard Zoo	\$1,000,000	N/A	N/A	Complete	Out for Signature		
	Public Education Total		\$2,425,000	28,879	2,013				

Table 2. Waste Water Treatment Facility Upgrades for Reclaimed Water Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
99	Cocoa Beach Water Reclamation Facility Upgrade*	Cocoa Beach	\$945,000	2,520	685	Complete	Complete	100%	100%
59	City of Melbourne Grant Street Water Reclamation Facility	Melbourne	\$6,769,500	18,052	9,671	Complete	Complete	95%	
2016-17	City of Palm Bay Water Reclamation Facility*	Palm Bay	\$3,636,900	20,240	102	Complete	Complete	100%	100%
2016-2	City of Titusville Osprey WWTF+	Titusville	\$8,300,000	12,286	TBD	Complete	Complete	100%	50%
138	Ray Bullard Water Reclamation Facility Biological Nutrient Removal Upgrades	West Melbourne	\$4,260,000	11,360	3,302	Complete	Complete	45%	
216	City of Rockledge Flow Equalization Basin Project	Rockledge	\$2,054,795	5,365	N/A	In Draft			
	WWTF Upgrades for Reclaimed Water Total		\$25,966,195	69,823	13,760				

Table 3. Sewer Laterals Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
63ab	Satellite Beach Pilot & Countywide Repair/Replacement (63 repairs completed)	Brevard County	\$840,000	988	188	Complete	Complete	100%	23%
114	Barefoot Bay Lateral Smoke Testing	Brevard County	\$90,000	864	TBD	Complete	Complete	100%	
115	South Beaches Lateral Smoke Testing	Brevard County	\$200,000	1,662	TBD	Complete	Complete	100%	
116	Merritt Island Lateral Smoke Testing	Brevard County	\$250,000	2,042	TBD	Complete	Complete	100%	
100	Osprey Basin Lateral Repair Project	Titusville	\$200,000	640	TBD	Complete	Under Review		
	Sewer Laterals Total		\$1,580,000	6,196	188				

Table 4. Rapid Infiltration Basin/Sprayfield Upgrades Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
6	Long Point Park Upgrade*	Brevard County	\$22,207	163	TBD	Complete	Complete	100%	100%
196	Sterling House Condominium Sprayfield	Property Owner	\$60,000	154	TBD				
	Rapid Infiltration Basin/Sprayfield Upgrades Total		\$82,207	317	TBD				

Table 5. Package Plant Connection Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
192	Oak Point Wastewater Treatment Facility Improvements	Property Owner	\$279,000	186	TBD	Complete	Complete	100%	15%
202	Merritt Island Utility Company	Property Owner	\$1,349,445	1,367	TBD				
228	Indian River Shores Trailer Park Wastewater Treatment Facility	Property Owner	\$528,627	450	TBD				
	Package Plant Connection Total		\$2,157,072	2,003	TBD				

Table 6. Septic System Removal by Sewer Extension Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2016-27	Sharpes - Zone A (0 of 186 connected)	Brevard County	\$7,872,000	5,248	TBD	Complete	Complete	1%	
2016-29	South Banana - Zone B (0 of 41 connected)	Brevard County	\$1,372,500	915	TBD	Complete	Complete	1%	
2016-35	South Beaches - Zone A (1 of 37 connected)	Brevard County	\$1,959,000	1,306	TBD	Complete	Complete		
2016-36	South Beaches - Zone O (0 of 4 connected)	Brevard County	\$133,488	136	TBD	Complete	Complete	100%	
2016-37	South Beaches - Zone P (0 of 15 connected)	Brevard County	\$300,348	489	TBD	Complete	Complete	60%	
2016-50	South Central - Zone C (0 of 140 connected)	Brevard County	\$6,600,000	5,146	TBD	Complete	Complete	100%	11%
3	Micco Sewer Line Extension (Phase I and II) (0 of 18 connected)	Brevard County	\$2,239,500	1,493	TBD	Complete	Complete	100%	
47	Sykes Creek - Zone N (0 of 91 connected)	Brevard County	\$4,176,000	2,784	TBD	Complete	Complete	75%	
48	Sykes Creek - Zone M (0 of 56 connected)	Brevard County	\$2,697,000	1,798	TBD	Complete	Complete	30%	
49	Sykes Creek - Zone T (0 of 148 connected)	Brevard County	\$5,040,000	3,360	TBD	Complete	Complete	30%	
136	Micco - Zone B (0 of 540 connected)	Brevard County	\$9,000,000	8,687	TBD	Complete	Complete	1%	
145	Merritt Island - Zone F (0 of 71 connected)	Brevard County	\$1,100,000	1,292	TBD	Complete	Complete	1%	
146	Merritt Island - Zone C (0 of 43 connected)	Brevard County	\$1,580,000	1,419	TBD	Complete	Complete	1%	
147	Sykes Creek - Zone R (0 of 192 connected)	Brevard County	\$4,387,500	2,925	TBD	Complete	Complete	1%	
148	North Merritt Island - Zone E (0 of 195 connected)	Brevard County	\$3,811,500	2,541	TBD	Complete	Complete	1%	
150	South Central - Zone D (0 of 94 connected)	Brevard County	\$4,774,500	3,387	TBD	Complete	Complete		
151	Merritt Island - Zone G (0 of 1,146 connected)	Brevard County	\$16,617,000	11,078	TBD	Complete	Complete	1%	
152	Sharpes - Zone B (0 of 136 connected)	Brevard County	\$4,038,000	2,692	TBD	Complete	Complete	1%	
153	Cocoa - Zone C (0 of 273 connected)	Brevard County	\$800,000	3,499	TBD	Complete	Complete	1%	
203	South Central - Zone A (0 of 101 connected)	Brevard County	\$5,482,500	3,655	TBD	Complete	Complete		
2016-31/32	City of Cocoa - Zones J & K	Cocoa	\$5,622,000	3,748	TBD				
2016-28	South Central - Zone D (Melbourne) (0 of 28 connected)	Melbourne	\$265,500	177	TBD				

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2016-33	City of Melbourne (0 of 26 connected)	Melbourne	\$867,672	878	TBD				
2020-34	South Central - Zone F/Pineapple Avenue (1 of 51 connected)	Melbourne	\$1,701,972	1,688	TBD	Complete	Complete	100%	5%
4	Hoag Sewer Conversion (3 of 5 connected)	Melbourne	\$86,031	101	TBD	Complete	Complete	100%	60%
5	Pennwood Sewer Conversion (2 of 5 connected)	Melbourne	\$40,632	48	TBD	Complete	Complete	100%	60%
61	Riverside Drive Septic-to-Sewer Conversion (1 of 12 connected)	Melbourne	\$262,044	305	TBD	Complete	Complete	100%	54%
62	Roxy Avenue Septic-to-Sewer Conversion (2 of 6 connected)	Melbourne	\$88,944	102	TBD	Complete	Complete	100%	60%
189	Avendia del Rio Septic to Sewer (0 of 3 connected)	Melbourne	\$70,000	71	TBD				
190	Bowers Septic to Sewer (0 of 6 connected)	Melbourne	\$147,000	120	TBD				
191	Kent and Villa Espana Septic to Sewer Conversion (0 of 37 connected)	Melbourne	\$710,000	542	TBD				
2	Merritt Island Septic Phase Out Project (74 of 74 connected)*	Merritt Island Redevelopment Agency	\$320,000	2,492	TBD	Complete	Complete	100%	100%
2016-39	City of Palm Bay – Zone A (0 of 77 connected)	Palm Bay	\$2,569,644	2,136	TBD				
2016-46	City of Palm Bay – Zone B (0 of 249 connected)	Palm Bay	\$8,309,628	6,809	TBD				
2016-30	City of Rockledge (0 of 15 connected)	Rockledge	\$500,580	712	TBD				
2016-40	Rockledge - Zone B (0 of 160 connected)	Rockledge	\$5,339,520	4,037	TBD				
1	Breeze Swept Septic to Sewer Connection (143 of 143 connected)*	Rockledge	\$880,530	2,002	TBD	Complete	Complete	100%	100%
2016-38	City of Titusville - Zone H (0 of 35 connected)	Titusville	\$1,168,020	910	TBD				
109	City of Titusville - Zones A-G (0 of 18 connected)	Titusville	\$1,201,392	642	TBD	Complete	Complete	90%	
60	Sylvan Estates Septic-to-Sewer Conversion (59 connected)*	West Melbourne	\$1,561,215	1,073	TBD	Complete	Complete	100%	100%
224	Lake Ashley Circle (0 of 46 connected)	West Melbourne	\$1,704,000	1,136	TBD	In Draft			
225	Dundee Circle and Manor Place (0 of 60 connected)	West Melbourne	\$2,248,500	1,499	TBD	In Draft			
	Septic System Removal by Sewer Extension Total		\$119,645,660	95,078	TBD				

Table 7. Septic System Removal by Sewer Connection Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Applications Contracted	Contracts Completed	Total TN Reduction (lbs/yr)
2016-16	Banana Septic System 144 Quick Connections	Private Citizens	\$1,905,729	4	3	67
2016-18	North IRL Septic System 463 Quick Connections	Private Citizens	\$6,018,000	46	35	857
2016-19	Central IRL Septic System 269 Quick Connections	Private Citizens	\$3,354,000	5	1	26
222	Hedgecock/Grabowsky & Desoto Fields	Satellite Beach	\$39,447	0	0	0
	Septic System Removal by Sewer Connection Total		\$11,317,176	55	39	950

Table 8. Septic System Upgrades Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Applications Contracted	Contracts Completed	Total TN Reduction (lbs/yr)
51	Banana River Lagoon 100 Septic System Upgrades	Private Citizens	\$1,800,000	11	4	77
52	North IRL 586 Septic System Upgrades	Private Citizens	\$10,548,000	54	23	544

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Applications Contracted	Contracts Completed	Total TN Reduction (lbs/yr)
53	Central IRL 939 Septic System Upgrades	Private Citizens	\$16,885,106	117	42	993
	Septic System Upgrades Total		\$29,233,106	182	69	1614

Table 9. Stormwater Projects Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2016-41	Banana River Lagoon 68 Basin Projects	Brevard County	\$14,324,135	63,789	8,421				
2016-42	North IRL 95 Basin Projects	Brevard County	\$22,114,028	118,696	15,673				
2016-43	Central IRL 8 Basin Projects	Brevard County	\$3,258,500	19,832	2,617				
18	Basin 62 Denitrification Retrofit of Johns Road Pond*	Brevard County	\$105,512	1,199	TBD	Complete	Complete	100%	100%
22	Basin 1387 Kingsmill-Aurora Phase Two	Brevard County	\$367,488	4,176	814	Complete	Complete	15%	
23	Basin 41 Denitrification Retrofit of Huntington Pond	Brevard County	\$104,720	1,190	TBD	Complete	Complete	75%	
24	Basin 71 Denitrification Retrofit of Flounder Creek Pond	Brevard County	\$75,328	856	TBD	Complete	Complete	100%	
85	Basin 1304 Bioreactor*	Brevard County	\$90,000	958	127	Complete	Complete	100%	100%
87	Basin 2134 Fleming Grant Biosorption Activated Media*	Brevard County	\$56,588	602	91	Complete	Complete	100%	100%
89	Basin 1298 Bioreactor*	Brevard County	\$86,198	917	116	Complete	Complete	100%	100%
90	Basin 51 Johns Road Pond Biosorption Activated Media*	Brevard County	\$23,030	245	37	Complete	Complete	100%	100%
91	Basin 100 Burkholm Road Biosorption Activated Media*	Brevard County	\$64,390	685	104	Complete	Complete	100%	100%
92	Basin 115 Carter Road Biosorption Activated Media*	Brevard County	\$62,510	665	101	Complete	Complete	100%	100%
93	Basin 193 Wiley Ave Biosorption Activated Media*	Brevard County	\$82,735	954	144	Complete	Complete	100%	100%
94	Basin 832 Broadway Pond Biosorption Activated Media*	Brevard County	\$42,864	456	69	Complete	Complete	100%	100%
117	Basin 10 County Line Road Woodchip Bioreactor*	Brevard County	\$72,773	597	90	Complete	Complete	100%	100%
118	Basin 26 Sunset Road Serenity Park Woodchip Bioreactor*	Brevard County	\$73,810	605	92	Complete	Complete	100%	100%
119	Basin 141 Irwin Avenue Woodchip Bioreactor*	Brevard County	\$69,174	567	86	Complete	Complete	100%	100%
121	Basin 2258 Babcock Road Woodchip Bioreactor	Brevard County	\$50,203	412	62	Complete	Complete	50%	
122	Basin 22 Huntington Road Serenity Park Woodchip Bioreactor*	Brevard County	\$40,077	329	50	Complete	Complete	100%	100%
205	Basin 998 Hampton Homes	Brevard County	\$194,400	TBD	TBD	Complete	Under Review		
206	Basin 1066 Angel Ave	Brevard County	\$232,200	TBD	TBD	Complete	Out for Signature		
207	Basin 1124	Brevard County	\$148,100	TBD	TBD	Complete	Under Review		
213	Johnson Junior High Denitrification Media Chamber Modification	Brevard County	\$64,478	206	TBD				
215	Basin 960 Pioneer Road Denitrification	Brevard County	\$38,850	105	3				
220	Basin 1398 Sand Dollar Canal Bioreactor	Brevard County	\$198,024	444	70				
229	Basin 1280B Flamingo Road Denitrification	Brevard County	\$71,645	161	31				
230	Basin 1304B West Arlington Road Denitrification	Brevard County	\$96,425	216	TBD				
231	Basin 89 Scottsmoor I Aurantia Road Denitrification	Brevard County	\$245,100	1,706	292				
13	Central Boulevard Baffle Box*	Cape Canaveral	\$34,700	481	14	Complete	Complete	100%	100%
14	Church Street Type II Baffle Box*	Cocoa	\$88,045	937	135	Complete	Complete	100%	100%
124	Floating Wetlands to Existing Stormwater Ponds*	Cocoa	\$1,497	12	3	Complete	Complete	100%	100%

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
125	Diamond Square Stormwater Pond	Cocoa	\$10,383	85	23				
129	Forrest Avenue 72-inch Outfall Baseflow Capture/Treatment	Cocoa	\$13,956	94	12				
177	North and South Lakemont Ponds Floating Wetlands*	Cocoa	\$13,054	107	25	Complete	Complete	100%	100%
64	Stormwater Low Impact Development Convair Cove 1 – Blakey Boulevard	Cocoa Beach	\$4,650	30	3	Complete	Complete	100%	100%
65	Stormwater Low Impact Development Convair Cove 2 – Dempsey Drive	Cocoa Beach	\$4,495	29	3	Complete	Complete	100%	100%
219	McNabb Outfall Bioretention	Cocoa Beach	\$19,423	44	7				
221	Burriss Way Alley West Stormwater Low Impact Development	Cocoa Beach	\$1,249	3	-				
127	Basin 5 Dry Retention*	Indialantic	\$16,680	113	18	Complete	Complete	100%	100%
16	Gleason Park Reuse*	Indian Harbour Beach	\$4,224	48	9	Complete	Complete	100%	100%
66	Big Muddy at Cynthia Baffle Box*	Indian Harbour Beach	\$67,532	436	58	Complete	Complete	100%	100%
34	Cliff Creek Baffle Box*	Melbourne	\$347,781	3,952	797	Complete	Complete	100%	100%
35	Thrush Drive Baffle Box*	Melbourne	\$322,200	3,661	773	Complete	Complete	100%	100%
67	Grant Place Baffle Box	Melbourne	\$82,481	937	193	Complete	Complete	100%	5%
69	Apollo/GA Baffle Box	Melbourne	\$297,522	3,381	479				
95	Cherry Street Baffle Box	Melbourne	\$306,740	980	174				
96	Spring Creek Baffle Box	Melbourne	\$330,841	1,057	232				
88	Espanola Baffle Box	Melbourne	\$105,186	1,119	148				
169	Sherwood Park Stormwater Quality Project*	Melbourne	\$292,400	3,214	879	Complete	Complete	100%	100%
175	High School Baffle Box	Melbourne	\$144,326	1,183	319				
176	Funeral Home Baffle Box	Melbourne	\$58,682	481	129				
15	Bayfront Stormwater Project*	Palm Bay	\$30,624	348	83	Complete	Complete	100%	100%
128	Jackson Court Stormwater Treatment Facility*	Satellite Beach	\$8,266	56	8	Complete	Complete	100%	100%
179	Lori Laine Basin Pipe Improvement Project	Satellite Beach	\$17,525	117	21				
68	Crane Creek/M-1 Canal Flow Restoration	St. Johns Water Management District	\$2,033,944	23,113	2,719	Complete	Complete	80%	
19	St. Teresa Basin Treatment*	Titusville	\$272,800	3,100	459	Complete	Complete	100%	100%
20	South Street Basin Treatment*	Titusville	\$86,856	987	156	Complete	Complete	100%	100%
21	La Paloma Basin Treatment*	Titusville	\$208,296	2,367	346	Complete	Complete	100%	100%
97	Titusville High School Baffle Box*	Titusville	\$111,813	1,190	166	Complete	Complete	100%	100%
98	Coleman Pond Managed Aquatic Plant System*	Titusville	\$11,438	1,240	198	Complete	Complete	100%	100%
110	Osprey Plant Pond Managed Aquatic Plant Systems*	Titusville	\$60,000	606	88	Complete	Complete	100%	100%
120	Draa Field Pond Managed Aquatic Plant Systems*	Titusville	\$31,281	256	38	Complete	Complete	100%	100%
174	St. Johns 2 Baffle Box	Titusville	\$243,070	1,992	611	Complete	Complete	50%	
178	Marina B Managed Aquatic Plant Systems*	Titusville	\$6,670	55	7	Complete	Complete	100%	100%
214	Sand Point Park Baffle Box	Titusville	\$137,135	438	71	Complete	Under Review		

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
123	Ray Bullard Water Reclamation Facility Stormwater Management Area	West Melbourne	\$160,674	1,317	400	Complete	Complete	100%	100%
	Stormwater Projects Total		\$48,028,554	280,134	38,894				

Table 10. Vegetation Harvesting Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
112	County Wide Stormwater Pond Harvesting*	Brevard County	\$14,000	931	327	Complete	Complete	100%	100%
172	Horseshoe Pond Vegetative Harvesting*	Brevard County	\$8,140	74	7	Complete	Complete	100%	100%
209	Basin 1398 Sand Dollar Canal Harvesting	Brevard County	\$24,420	222	21				
210	Basin 958 Pioneer Road Vegetation Harvesting	Brevard County	\$39,930	363	47				
173	North and South Lakemont Ponds Vegetation Harvesting	Cocoa	\$1,980	18	4				
208	Maritime Hammock Preserve Stormwater Pond Vegetation Harvesting	Cocoa Beach	\$7,700	70	5				
211	Cocoa Beach Golf Course Stormwater Pond Harvesting	Cocoa Beach	\$216,150	1,965	135				
171	Mechanical Aquatic Vegetation Harvesting	Melbourne Tillman Water Control District	\$1,011,976	16,636	1,664	Complete	Complete	100%	
111	Draa Field Vegetation Harvesting*	Titusville	\$50,000	786	TBD	Complete	Complete	100%	100%
	Vegetation Harvesting Total		\$1,374,296	21,065	2,210				

Table 11. Muck Removal & Interstitial Treatment Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2016-3a & b	Muck Re-dredging in Turkey Creek & Interstitial Treatment*	Brevard County	\$137,329	5,691	221	Complete	Complete	100%	100%
2016-04a & b	Rockledge A Muck & Interstitial Treatment	Brevard County	\$5,010,244	20,286	1,982	Complete	Complete	30%	
2016-05a & b	Pineda Banana River Lagoon & Interstitial Treatment	Brevard County	\$7,815,980	34,853	2,490				
2016-06a & b	Titusville Railroad West	Brevard County	\$3,607,375	23,554	1,421	Complete	Complete	30%	
2016-07a & b	National Aeronautics and Space Administration Causeway East & Interstitial Treatment	Brevard County	\$11,423,355	50,839	3,684	Complete	Complete	30%	
2016-08a & b	Titusville Railroad East & Interstitial Treatment	Brevard County	\$4,609,424	17,081	1,291	Complete	Complete	30%	
2016-10a & b	Canaveral South & Interstitial Treatment	Brevard County	\$16,834,419	78,070	5,812	Complete	Complete		
2016-11a & b	Patrick Air Force Base & Interstitial Treatment	Brevard County	\$8,216,800	27,333	2,279				
40	Mims Muck Removal Outflow Water Nutrient Removal*	Brevard County	\$400,000	2,803	244	Complete	Complete	100%	100%
41a & b	Grand Canal Muck & Interstitial Treatment	Brevard County	\$18,020,368	99,210	1,358	Complete	Complete	100%	37%
42a & b	Sykes Creek Muck & Interstitial Treatment	Brevard County	\$15,954,132	83,913	2,618	Complete	Complete	100%	
54a & b	Eau Gallie Northeast Muck & Interstitial Treatment	Brevard County	\$10,020,487	35,886	3,795	Complete	Complete	100%	
71	Merritt Island Muck Removal – Phase 1	Brevard County	\$7,733,517	8,085	1,540	Complete	Complete	60%	

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
70a	Cocoa Beach Muck Dredging – Phase III*	Cocoa Beach	\$1,376,305	4,095	780	Complete	Complete	100%	100%
101	Cocoa Beach Muck Dredging Phase II-B*	Cocoa Beach	\$5,917,650	6,300	840	Complete	Complete	100%	100%
168a & b	Cocoa Beach Golf Muck & Interstitial Treatment	Cocoa Beach	\$24,363,100	128,792	11,080	Complete	Complete	17%	
72a & b	Muck Removal of Indian Harbour Beach Canals & Interstitial Treatment	Indian Harbour Beach	\$9,115,415	31,198	720	Complete	Complete	60%	
223	Spring Creek Dredging	Melbourne	\$80,080	154	21				
144 & 113	Satellite Beach Muck Dredging & Interstitial Treatment	Satellite Beach	\$4,941,981	33,863	3,577				
	Muck Removal & Interstitial Treatment Total		\$155,577,961	692,006	45,753				

Table 12. Oyster Bars Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2016-55	Banana River Lagoon County Oyster Bars (196,591 Square Feet)	Brevard County	\$3,102,755	7,864	197				
2016-56	North IRL County Oyster Bars (182,846 Square Feet)	Brevard County	\$2,885,834	7,314	183				
73	RiverView Senior Resort Oyster Bar* (1,920 Square Feet)	Brevard County	\$30,304	77	2	Complete	Complete	100%	100%
226	Hog Point Offshore Oyster Bar	Brevard County	\$50,022	126	3				
75	Marina Isles Oyster Bar* (1,800 Square Feet)	Brevard Zoo	\$26,700	60	20	Complete	Complete	100%	100%
76	Bettinger Oyster Bar* (720 Square Feet)	Brevard Zoo	\$10,680	24	8	Complete	Complete	100%	100%
79	Gitlin Oyster Bar* (1,080 Square Feet)	Brevard Zoo	\$16,020	36	12	Complete	Complete	100%	100%
80	Coconut Point/Environmentally Endangered Lands Oyster Bar* (2,400 Square Feet)	Brevard Zoo	\$45,120	96	2	Complete	Complete	100%	100%
81	Wexford Oyster Bar* (1,750 Square Feet)	Brevard Zoo	\$31,150	70	24	Complete	Complete	100%	100%
83	Bomalaski Oyster Bar* (600 Square Feet)	Brevard Zoo	\$8,900	20	7	Complete	Complete	100%	100%
104	Brevard Zoo Banana River Oyster Project (36,894 Square Feet)	Brevard Zoo	\$583,020	1,476	37	Complete	Complete	5%	2%
105	Brevard Zoo Central IRL Oyster Project (10,080 of 10,200 Square Feet)	Brevard Zoo	\$161,160	408	10	Complete	Complete	100%	99%
106	Brevard Zoo North IRL Oyster Project (3,270 of 21,600 Square Feet)	Brevard Zoo	\$341,280	864	22	Complete	Complete	83%	54%
139	Brevard Zoo North IRL Oyster Project 2 (1,836 of 21,030 Square Feet)	Brevard Zoo	\$336,400	841	21	Complete	Complete	60%	19%
140	Brevard Zoo Central IRL Oyster Project 2 (3,714 of 16,932 Square Feet)	Brevard Zoo	\$270,800	677	17	Complete	Complete	60%	29%
141	Brevard Zoo Banana River Oyster Project 2 (16,560 Square Feet)	Brevard Zoo	\$264,800	662	17				
142	Brevard Zoo Oyster Reef Adjustments North IRL (1,700 Square Feet)	Brevard Zoo	\$27,200	68	2				
143	Brevard Zoo Oyster Reef Adjustments Banana River (800 Square Feet)	Brevard Zoo	\$12,800	32	1				
184	Brevard Zoo North Indian River Lagoon Oyster Project 3 (3,705 of 26,388 Square Feet)	Brevard Zoo	\$419,232	1,056	26	Complete	Complete	63%	14%
185	Brevard Zoo Central Indian River Lagoon Tributary Pilot Oyster Project	Brevard Zoo	\$230,657	581	15				
186	Brevard Zoo North Indian River Lagoon Individual Oyster Project	Brevard Zoo	\$173,092	436	11				
187	Brevard Zoo Central Indian River Lagoon Oyster Project 3	Brevard Zoo	\$86,546	218	5				
188	Brevard Zoo Banana River Oyster Project 3	Brevard Zoo	\$56,771	143	4				
217	Brevard Zoo Central Indian River Lagoon Oyster Project 4	Brevard Zoo	\$138,156	348	9				
218	Central Oyster Project Offshore Reefs	Brevard Zoo	\$357,300	900	23				
78a	McNabb Park Oyster Bar (1,800 Square Feet)	Cocoa Beach	\$34,056	72	24	Complete	Complete	70%	
82a	Riverview Park Oyster Bar (5,750 Square Feet)	Melbourne	\$108,790	230	78				

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
	Oyster Bars Total		\$9,809,545	24,699	780				

Table 13. Planted Shorelines Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
212	Titusville Causeway Multi-Trophic Restoration & Living Shoreline	Brevard County	\$31,440	131	45				
103	Brevard Zoo North IRL Plant Project* (50 Linear Feet)	Brevard Zoo	\$720	3	1	Complete	Complete	100%	100%
130	Brevard Zoo North IRL Plant Project 2 (610 Linear Feet)	Brevard Zoo	\$9,840	41	14	Complete	Complete	100%	100%
78b	McNabb Park Planted Shoreline (360 Linear Feet)	Cocoa Beach	\$5,760	24	8	Complete	Complete	85%	
77a	Cocoa Beach Country Club Planted Shoreline* (1,000 Linear Feet)	Marine Resources Council	\$16,014	67	23	Complete	Complete	100%	100%
77b	Lagoon House Shoreline Restoration Planting* (1,493 Linear Feet)	Marine Resources Council	\$23,961	100	34	Complete	Complete	100%	100%
133	Fisherman's Landing* (300 Linear Feet)	Marine Resources Council	\$4,800	20	7	Complete	Complete	100%	100%
135	Rotary Park* (300 Linear Feet)	Marine Resources Council	\$4,800	20	7	Complete	Complete	100%	100%
180	Scottsmeer Impoundment (650 Linear Feet)	Marine Resources Council	\$10,560	44	15				
181	Riveredge (250 Linear Feet)	Marine Resources Council	\$4,080	17	6	Complete	Complete	100%	
82b	Riverview Park Planted Shoreline (1,150 Linear Feet)	Melbourne	\$18,480	77	26				
	Planted Shorelines Total		\$130,455	544	186				

Table 14. Clam Restoration Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
194	Aquaculture Stimulus Program (3 of 10 grantees)	Private Citizens	\$60,000	1,000	TBD	Complete	Complete	30%	30%
	Clam Restoration Total		\$60,000	1,000	TBD				

Table 15. Overview

Totals	Total TN Reduction (lbs/yr)	Total TP Reduction (lbs/yr)	Scopes of Work Received	Contracts Executed	Projects in Design	Projects Under Construction	Projects Complete
Total as of Previous Quarter	97,006	8,881	134	119	108	80	56
Total as of This Quarter	123,771	9,677	131	127	124	83	63



Brevard County Half-Cent Sales Surtax – Save Our Indian River Lagoon (“SOIRL”) FY 2020 Internal Audit Report

March 22, 2022

Brevard County is currently in the process of implementing changes to increase the accessibility of information and documents on its website. If you require assistance to better access these documents or information contained therein please contact the County’s ADA Coordinator by phone at (321)-637-5347 or by email at ADACompliance@brevardfl.gov



TABLE OF CONTENTS

Transmittal Letter	1
Executive Summary	2
Overview	3
Results	4
Appendix A: Ordinance 2016-15	8
Appendix B: SOIRL Committee.....	9
Appendix C: Project Plan	10
Appendix D: Procurement Process Maps.....	11

TRANSMITTAL LETTER

March 22, 2022

The Audit Committee of
Brevard County, Florida
2700 Judge Fran Jamieson Way
Viera, Florida 32940-6699

Pursuant to the approved Brevard County (“County”) Fiscal Year (“FY”) 2019/2020 internal audit plan, we hereby present our internal audit report of the Half-Cent Sales Surtax – Save Our Indian River Lagoon Project (“SOIRL”) covering FY 2020. Below is an overview of the SOIRL timeline.

FY 2017	The County began collecting surtax revenue in January 2017. RSM issued the first SOIRL report dated October 25, 2017 and presented to the Audit Committee on November 1, 2017 and to the independent SOIRL Citizen Oversight Committee (“COC”) on November 17, 2017. Our report included walkthroughs and control design assessments of the interlocal agreement process as well as the County’s financial system, SAP, project tracking processes, and account monitoring and oversight. There were minimal expenditures and as such no expenditures were tested.
FY 2018	RSM issued the FY 2018 SOIRL report dated May 2, 2018 and presented it to the audit committee on May 16, 2018. A copy was provided to the SOIRL COC. In addition to sharing the project plan status, the scope of the detailed transaction testing in this report included revenue, interlocal contracting and expenditures.
FY 2019	RSM issued two SOIRL reports during FY 2019 dated November 7, 2018 and August 7, 2019. They were presented to the Audit Committee on November 7, 2018 and August 21, 2019, respectively, and to the SOIRL COC in January 2019 and October 2019. The scope of the detailed transaction testing in these reports focused on revenues and expenditures for a sample of projects as well as providing unaudited example project timelines.
FY 2020	RSM completed the draft FY 2020 SOIRL report on March 22, 2022 and will present to the Audit Committee on April 20, 2022. The scope of the detailed transaction testing focused on revenues, procurement, and expenditures. Internal Audit fieldwork was scheduled for March 2020 and was interrupted by the COVID-19 pandemic. Testing and analysis of collections, as well as attending COC meetings occurred throughout FY 2020, while expenditure and procurement testing was completed in FY 2022. The final report will be presented to the SOIRL COC in an upcoming meeting.
FY 2021	RSM issued the FY 2021 SOIRL report dated June 9, 2021 and presented to the Audit Committee on June 9, 2021, and to the SOIRL COC in July 2021. The scope of the detailed transaction testing in this report included revenues and expenditures.

RSM is currently planning for the FY 2022 audit. We would like to thank the staff in County Finance, Central Services, Natural Resources Department and all those involved in assisting the Internal Auditors in connection with this review.

Respectfully Submitted,

RSM US LLP

INTERNAL AUDITORS

EXECUTIVE SUMMARY

Background

On November 8, 2016, the citizens of Brevard County passed a Half-Cent Sales Surtax to address the critical need of funding to implement the SOIRL Project Plan aimed to meet water quality targets and improve the health, productivity, aesthetic appeal, and economic value of the lagoon. The surtax is effective for a period of ten years, beginning January 2017, and was originally projected to generate \$302 million in funding.

The original Project Plan (“Plan”) was developed in partnership with scientists, economists, environmentalists and multiple government agencies. The first annual Plan update was recommended by the COC and approved by the Board of County Commissioners (“BOCC”) in March 2017. Local stakeholders submit projects annually to the County for inclusion in the Plan which are reviewed by the COC and approved for Plan inclusion by the BOCC. The most recent plan update was approved by the BOCC in February 2022.

The County manages certain projects in the Plan and contracts directly with the respective organizations/contractors to complete the work. Key accounting and compliance duties in the administration of the Plan are segregated between the County’s Central Services Office and County Finance. The County’s Central Services function drives the procurement and contracting. In addition, certain portions of the Plan require the County to enter into agreements with local municipal governments where the Indian River Lagoon (“IRL”) shares jurisdiction. Based upon the current Project Plan, as amended, there are multiple municipal partners with whom the County contracts, on a reimbursement basis, to complete projects funded by the surtax. An agreement must be executed for each project, so there may be multiple agreements for one municipality. County Finance receives the deposit of SOIRL funds directly from the Florida Department of Revenue and disburses the funds for eligible expenditures directly to municipal partners/vendors.

Objectives and Approach

FY 2020 – Internal Audit fieldwork was scheduled for March 2020 and interrupted due to the COVID-19 pandemic. During FY 2020, the SOIRL COC continued to meet. These meetings were attended by RSM, as we have done in all other periods.

The primary purpose of the internal audit of the Half-Cent Sales Surtax is to test the appropriateness, existence and accuracy of the SOIRL activities as reported by the County Management to the COC, BOCC and general public. Our audit approach consisted of the following phases:

Understanding and Documentation of the Process

We obtained preliminary data from County Finance, Central Services and Natural Resources relative to our in-scope period. We reviewed the COC committee meeting minutes as well as relevant Statutes, Ordinances, Administrative Orders and written policies and procedures. We completed a thorough procurement process review with Central Services to develop the process maps.

Testing and Reporting

For the scope period October 1, 2019 through September 30, 2020, RSM performed select audit procedures including confirmation of reported surtax collections, validation of a sample of expenditure supporting documentation, and review of procurement documentation for compliance with applicable Florida Statutes and BOCC policies and procedures. We judgmentally sampled non-project procurements as well as approved projects for testing, considering amount spent during the scope period, prior audit testing, and complexity of the contract as follows:

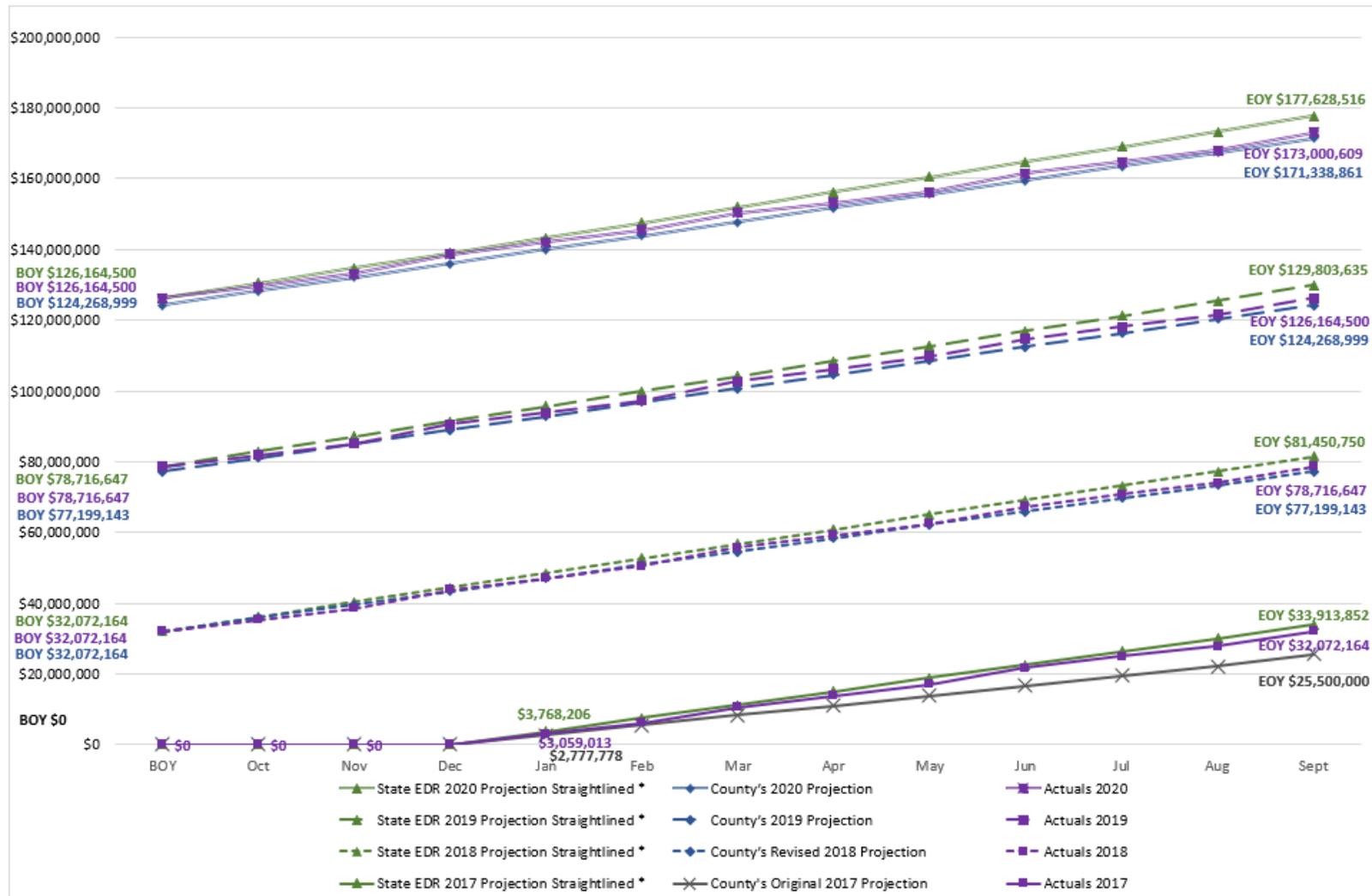
- Confirmed 100% of collections independently through the Department of Revenue.
- 30 out of 58 active projects selected for expenditure testing, representing \$9,313,657 of \$11,147,517 (83.6%) total expenditures during the scope period.
- Reviewed evidence of proper procurement compliance for 20 of 60 vendors to whom payments were made of SOIRL funds during the in-scope period. The expenditures of the vendors tested represented \$3,755,925 of the \$4,101,475 vendor related expenditures (91.6%). Contracts and expenditures for the County’s municipal, vendor partners are tested as part of the expenditure testing noted above.

We compiled the results of our detailed testing into this written report.

Summary of Results		
FY 2020		
Collections	Expenditures	Procurements
✓	✓	✓

OVERVIEW

On November 8, 2016 the citizens of Brevard County passed a Half-Cent Sales Surtax to address critical need of funding to implement the Plan. The surtax is effective for a period of ten (10) years, with collections starting January 1, 2017. As is customary with sales tax, the first payment is received 2-3 months after being earned, starting with January collections being paid in March 2017. The below graphic represents projected vs. actual collections. This graphic is updated and published by the County on their website and presented to the COC.

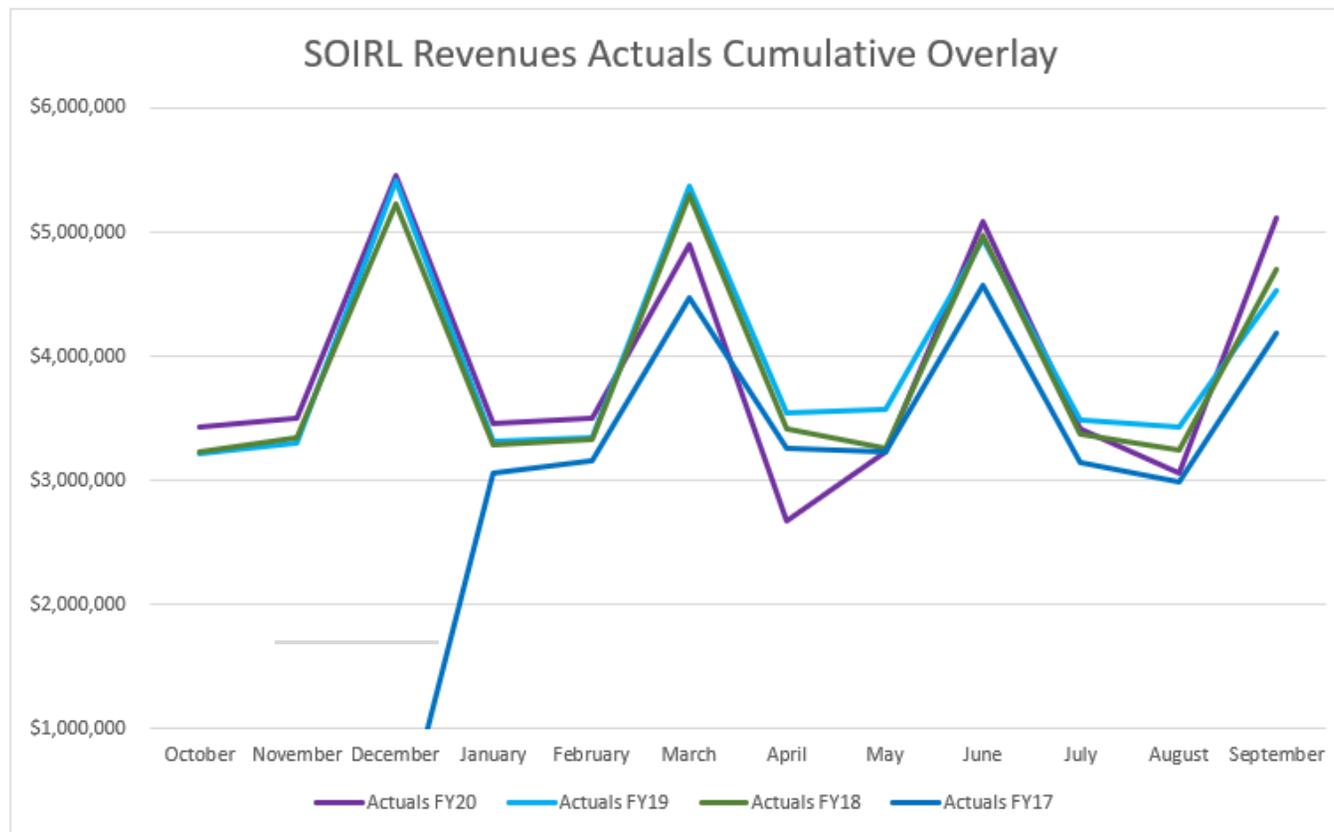


RESULTS

Collections Testing

The County receives a monthly Surtax deposit via ACH from the State of Florida. County Finance receives an e-mail from the Department of Revenue to login to their account detailing the revenue collections for the covered period. Information included are multiple tax types and the reported totals for the month being deposited. The funds are deposited directly from the Florida Department of Revenue to the County and County Finance posts the journal entry to the SOIRL trust fund. We obtained the County’s general ledger from County Finance for the period in scope and independently confirmed the reported revenues for the SOIRL surtax by comparing to the Department of Revenue’s publicly available surtax transaction detail in order to test for completeness and accuracy of the County’s reported SOIRL surtax collections. **No exceptions were noted in our testing.**

The surtax allocation trends of actual collections over the scope period are illustrated below.



FY 2020 Impacts of COVID-19

Due to the COVID-19 pandemic, the County collected approximately 0.5% less surtax funds than originally budgeted in FY 2020. Overall, the impact from COVID-19 on collections for the SOIRL trust fund was minimal.

RESULTS – CONTINUED

Expenditures

The County reported a total of \$11,147,517 in SOIRL expenditures from the SOIRL trust fund for the period of October 1, 2019, through September 30, 2020. This amount agrees to the County’s audited Annual Comprehensive Financial Report. Those expenditures funded 58 active projects during the scope period. Of the active projects, we obtained support through County Finance and SAP for a sample of 30 projects totaling \$9,313,657 (83.6%) of the total SOIRL expenditures during the in-scope period. The projects sampled were judgmentally selected to provide a high level of coverage. The table shown below is the compiled results of the testing procedures and a description of testing attributes that were completed for the current round of testing. ***No exceptions were noted in our testing.***

Detailed Procedures	Waste Water Treatment		Septic Removal by Sewer			Public Education Finance			Monitoring & Respond					Oyster Bars & Planted Shorelines	
	Cocoa Beach Water Reclamation Facility Upgrade	City of Titusville Osprey WWTF Nutrient Mgt Upgrade 2	Merritt Island Redevelopment Agency ("MIRA") Septic Phase Out Project	Sylvan Estates Septic-to-Sewer Conversion	South Beaches Zone A	Oyster Gardening	Expanded Fertilizer Education	Septic system Maintenance Education	Community Groundwater Monitoring	Kilroy Maintenance	Living Shoreline Monitoring	Grand Canal Sediment Testing	Plan Updates	Brevard Zoo Central IRL Oyster Project 2	Brevard Zoo North IRL Oyster Project
Vendor(s)	City of Cocoa Beach, Ortega Industrial Contractors	City of Titusville, CDM Smith	Utility Services Department	City of West Melbourne, Atlantic Development of Cocoa, Infrastructure Solution Services	Individual homeowners	East Coast Zoological Society	Marketing Talent Network Inc	Marketing Talent Network Inc	Applied Ecology Inc	Ocean Research & Conservation	University of Central Florida	Applied Ecology Inc, Pace Analytical Services LLC, Geosyntec Consultants Inc	Tetra Tech Inc	East Coast Zoological Society	East Coast Zoological Society
Approved Contract	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Set Contracted Values	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Assigned Task Order	1	1	5	1	3	4	✓	✓	✓	4	4	✓	✓	4	4
Invoice Supported and Reviewed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Proof of Payment Reviewed*	✓	✓	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reimbursement Package Reviewed ¹	✓	✓	5	✓	✓	4	2	2	2	4	4	2	2	4	4
Municipality Proof of Payment ¹	✓	✓	5	✓	3	4	2	2	2	4	4	2	2	4	4
Expense Allowable per Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

RESULTS – CONTINUED

Detailed Procedures	Stormwater Projects								Muck Removal & Interstitial						Septic System Upgrades
	Basin 10 County Line Road Woodchip Bioreactor	Carter Road Biosorption Activated Media Basin 115	Fleming Grant Biosorption Activated Media Basin 2134	Cliff Creek Baffle Box	St Teresa Basin Treatment	La Paloma Basin Treatment	South Street Basin Treatment	Broadway Pond Biosorption Activated Media Basin 832	Grand Canal Muck & Interstitial Treatment	Sykes Creek Muck & Interstitial Treatment	Cocoa Beach Muck Dredging Phase IIB	Cocoa Beach Muck Dredging - Phase III	Rockledge A Muck & Interstitial Treatment	Titusville Railroad West	North IRL 586 Septic System Upgrades
Vendor(s)	Cathcart Construction Company	Gregori Construction & Engineering	Cathcart Construction Company	City of Melbourne, Hinterland Group Inc	City of Titusville	City of Titusville	City of Titusville	Cathcart Construction Company	The Courier Journal Inc, Atkins North America Inc, Waterfront Property Services LLC	Florida Fish & Wildlife, The Title Station Inc, Taylor Engineering Inc	City of Cocoa Beach, Central Sands Inc, Mead & Hunt	City of Cocoa Beach, Central Sands Inc, Mead & Hunt	GHD Services Inc	Tetra Tech Inc, GHD Services Inc	Environmental Conservation, Individual homeowners
Approved Contract	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Set Contracted Values	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Assigned Task Order	6	6	6	1	1	1	1	6	6	6	1	1	✓	✓	3
Invoice Supported and Reviewed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Proof of Payment Reviewed*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reimbursement Package Reviewed ¹	6	6	6	✓	✓	✓	✓	6	6	6	✓	✓	2	2	✓
Municipality Proof of Payment ¹	6	6	6	✓	✓	✓	✓	6	6	6	✓	✓	2	2	3
Expense Allowable per Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* All SOIRL payments and/or journal entries are processed by the County Finance Department.

Notes for numbered procedures:

- SOIRL projects completed by municipalities will not have assigned task orders as these documents are specific to projects that are implemented by Brevard County staff and contractors. The municipality submits an application for reimbursement. The supporting documentation submitted for these applications includes the invoices documenting the municipality has received the goods and/or services and municipality proof of payment as evidence the municipality subsequently paid for those goods and/or services.
- SOIRL projects where Brevard County is the responsible entity, and the contract is for continuing services; will have assigned task orders and/or invoices for completion of work from those task orders. As such, those projects will not have reimbursement packages or proof that another municipality has paid for those goods and/or services.
- SOIRL septic system upgrades are reimbursement agreements with individual homeowners and therefore would not have assigned task orders and/or the municipality involvement for proof of payment.
- These SOIRL projects are contracts with not-for-profit organizations and/or Universities and require an invoice and a documentation package, but not an assigned task order, reimbursement package and/or the municipality involvement for proof of payment.
- SOIRL projects completed by a county redevelopment agency normally would have assigned task orders and proof of payment. However, the SOIRL portion of this project's costs was only for the utility connection fees for individual homeowners and the SOIRL payment was performed as an interdepartmental journal entry to the Utility Services Department. There has no municipality involvement for proof of payment and no reimbursement package as this is not a reimbursement.
- SOIRL projects where Brevard County is the responsible entity, and the contract is for construction; will have invoices for completion of work. As such, those projects will not have assigned task orders, reimbursement packages or proof that another municipality has paid for those goods and/or services.

RESULTS – CONTINUED

Procurement

We obtained the expenditure detail from County Finance exported from SAP for the SOIRL trust fund during FY 2020. We selected a judgmental sample of 20 of the 60 vendors and performed detailed testing to determine if proper procurement processes were followed for each vendor. The vendor expenditures of the sampled vendors represented \$3,755,925 of the \$4,101,475 vendor related expenditures (91.6%). See table below for a description of testing procedures and detailed testing results. **No exceptions were noted in our testing.**

	Sampled Vendors									
Detailed Procedures*	Alan Jay Chevrolet Cadillac Inc.	Applied Ecology Inc.	Atkins North America	Bussen-Mayer Engineering Group	Cathart Construction Company	Dell Marketing LP	East Coast Zoological Society	Environmental Conservation Services	Florida Institute of Technology	GHD Inc.
Purchase Order Approved by Purchasing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Purchase Thresholds and Related Required Admin Approvals Reviewed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Purchase Served Public Purpose and Related to SOIRL Project	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
No Bid Splitting to Avoid Competitive Solicitation Reviewed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Procurement Method	PB	RFQ/CCNA	RFQ/CCNA	RFQ/CCNA	ITB	FLSC	MOA	SS	LA	RFQ/CCNA

	Sampled Vendors									
Detailed Procedures*	Gregori Construction & Engineering	GeoSyntec Consultants Inc.	IRL Council	Ocean Research & Conservation	Randstad North America Inc.	Taylor Engineering	TetraTech Inc.	The Title Station	University of Central Florida	Waterfront Property Services
Purchase Order Approved by Purchasing	✓	✓	✓	✓	✓	✓	✓	Land	✓	✓
Purchase Thresholds and Related Required Admin Approvals Reviewed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Purchase Served Public Purpose and Related to SOIRL Project	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
No Bid Splitting to Avoid Competitive Solicitation Reviewed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Procurement Method	ITB	RFQ/CCNA	Inter-Local	SS	ITB	RFQ/CCNA	RFQ/CCNA	Land	Co-op	ITB

*Detailed Procedures are based on Applicable Florida Statutes (“FS”), BOCC Policies (“BCC”), BOCC Administrative Order (“AO”), and Purchasing Services (“PS”) Procedures as follows: FS 287.017, 287.055, 287.057; BCC-25, BCC-26; AO-29. See Appendix D for process maps for procurement process flow, required purchase thresholds approvals and related internal controls.

Notes:

- PB - procured via a piggyback agreement and approved by the BOCC pursuant to BCC-25 and associated FS.
- RFQ/CCNA - procured via a request for qualifications under the Consultant's Competitive Negotiation's Act and approved by the BOCC pursuant to BCC-26 and BCC-25 and associated FS.
- LA - procurement selection of vendor specified by legislative appropriation and the associated grant and approved by the BOCC pursuant to BCC-25 and associated FS.
- ITB - procured via an invitation to bid and approved by the BOCC pursuant to BCC-25 and associated FS.
- FLSC - procured via the Florida State Contract and approved by the BOCC pursuant to BCC-25 and associated FS.
- MOA - procured via memorandum of understanding and approved by the BOCC pursuant to BCC-25 and associated FS.
- SS - procured via single source method and approved by the BOCC pursuant to BCC-25 and associated FS.
- Land - procurement related to the acquisition of land (purchase orders are not issued for land acquisitions) and approved by the BOCC pursuant to BCC-25 and associated FS.
- Co-op - procured via cooperative agreement and approved by the BOCC pursuant to BCC-25 and associated FS.
- Inter-Local – An Inter-Local Agreement with the following counties: Volusia, Indian River, St. Lucie, and Martin.

APPENDIX A: ORDINANCE 2016-15



- The BOCC adopted Ordinance 2016-15 on August 23, 2016. The ordinance placed a Tax Referendum on the upcoming election ballot for voter consideration.
- On November 8, 2016, within the territorial limits of Brevard County, the Tax Referendum was voted on and passed with 62% favorable vote, to allow for a half-cent sales surtax on sales within the County.
- This legally restricted tax will help pay to restore the IRL over a 10-year period by implementing the approved SOIRL Project Plan, as amended.

- The Ordinance authorizes the use of the half-cent sales surtax to provide restoration services to improve the quality of the water and the lagoon through methods such as:
 - Wastewater Treatment Facility Upgrades for Reclaimed Water,
 - Fertilizer Education,
 - Storm-water Outfall Treatment,
 - Septic to Sewer Integration,
 - Septic Upgrades,
 - Muck Removal and Dredging,
 - Oysters and Restoring Living Shorelines and
 - Monitoring, Reporting and Adapting.



APPENDIX B: SOIRL COMMITTEE

The Oversight Committee

The Ordinance requires the creation of SOIRL COC, which consists of seven members and seven alternate members across seven different fields:

- Finance
- Science
- Tourism
- Real Estate
- Technology
- Education / Outreach
- Lagoon Advocacy

Additionally, the COC meetings typically include the following County staff at each meeting:

- Natural Resources Management (“NRM”) Director
- Assistant County Attorney
- Executive Secretary
- SOIRL Program staff, as appropriate

SOIRL COC Role

The role of the SOIRL COC per the Bylaws adopted on February 17, 2017, is to review monitoring data on timeliness of project delivery, actual and updated project costs, and actual nutrient removal effectiveness; review new literature and local studies on the types of projects included in the plan and potential alternative project types; evaluate alternative project proposals received from the community; and recommend adjustments to the Project Plan to be approved by the Board of County Commissioners.

Meetings

Since December 16, 2016, the SOIRL COC is scheduled to meet monthly. Meetings are open to the public and include time for public comments. Meeting minutes and agenda are available at the website: <http://www.brevardfl.gov/SaveOurLagoon>.

2020 Citizen Oversight Committee

- John Windsor (2019 Vice Chair, 2020 Chair), Lagoon Advocacy Member
- Courtney Barker (2020 Vice Chair), Finance Member
- David Lane (2018 Vice Chair, 2019 Chair), Tourism Member
- Stephany Eley (2018 Chair), Education/Outreach Member
- Lorraine Koss (2017 Chair), Science Member
- Jay Moynahan, Real Estate Member
- John Luznar, Technology Member
- Charles Venuto, Science Alternate
- Terry Casto, Lagoon Advocacy Alternate
- Vinnie Taranto, Technology Alternate
- Dennis Basile, Real Estate Alternate
- Melissa Martin, Education Alternate
- Todd Swingle, Finance Alternate
- Laurilee Thompson, Tourism Alternate



APPENDIX C: PROJECT PLAN

The original Plan was developed in partnership with scientists, economists, environmentalists, and multiple government agencies. The first annual plan update was recommended by the COC in February and approved by the BOCC in March 2017. Local stakeholders are provided the opportunity to submit projects annually to the County for inclusion in the plan. These projects are reviewed by the COC and approved for inclusion by the BOCC.

The SOIRL tax was approved for ten (10) years. The plan projects have been prioritized and ordered to deliver improvements to the lagoon in the most beneficial spatial and temporal sequence with the ultimate goal of a healthy IRL system. If a future project is ready to move forward earlier than scheduled in the plan, if such advancement is consistent with temporal sequencing goals in the plan and is recommended by the COC, and if there are sufficient SOIRL trust fund dollars available, the County Manager (for budget changes less than \$100,000) or BOCC have the authority to adjust the project schedule at any time to ensure that approved projects funded in the plan move forward as soon as feasible. The timing of the projects is shown in the figure below.

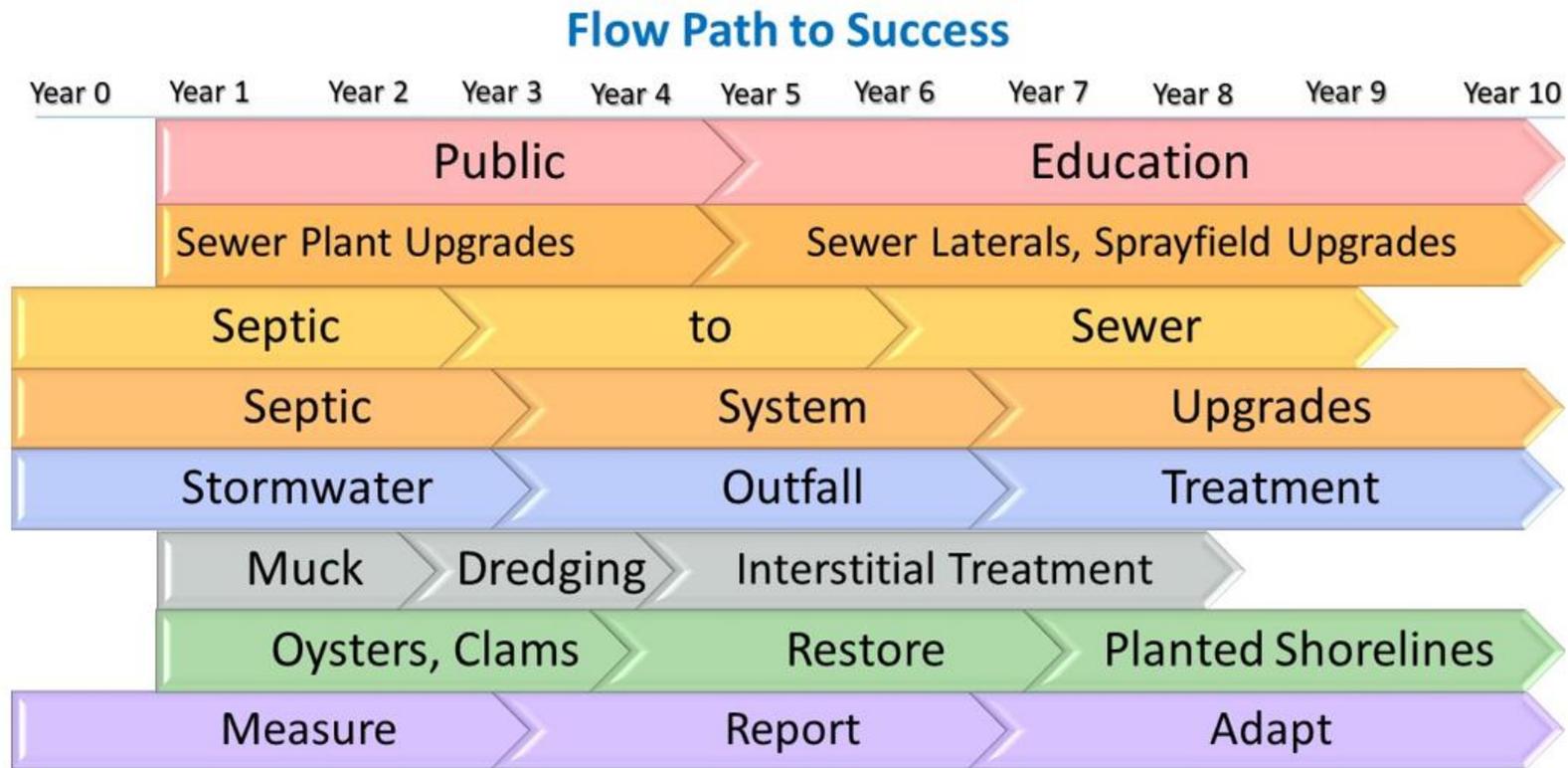
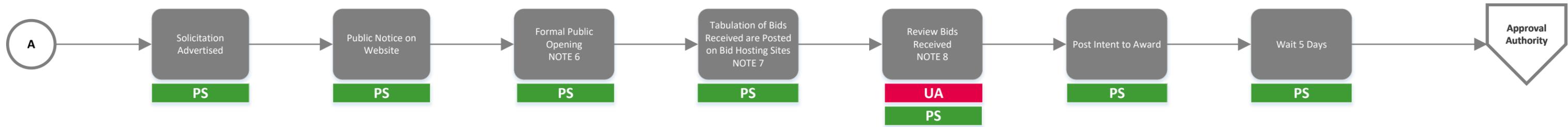
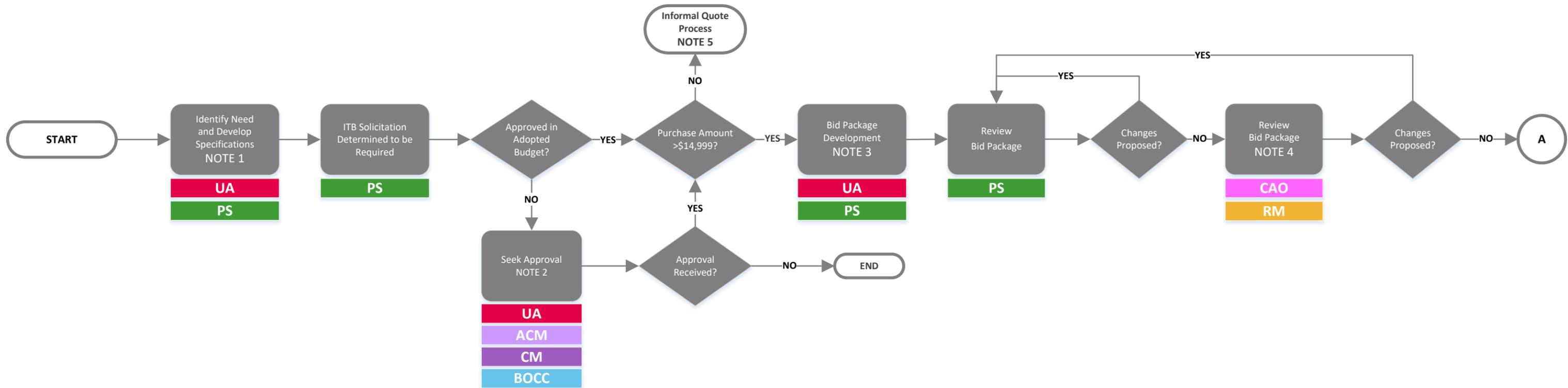


Figure ES-1: Save Our Indian River Lagoon Project Implementation Schedule

APPENDIX D: PROCUREMENT PROCESS MAP

Continued on next page.

Appendix D - Brevard County Invitation to Bid ("ITB") Solicitation and Evaluation Process

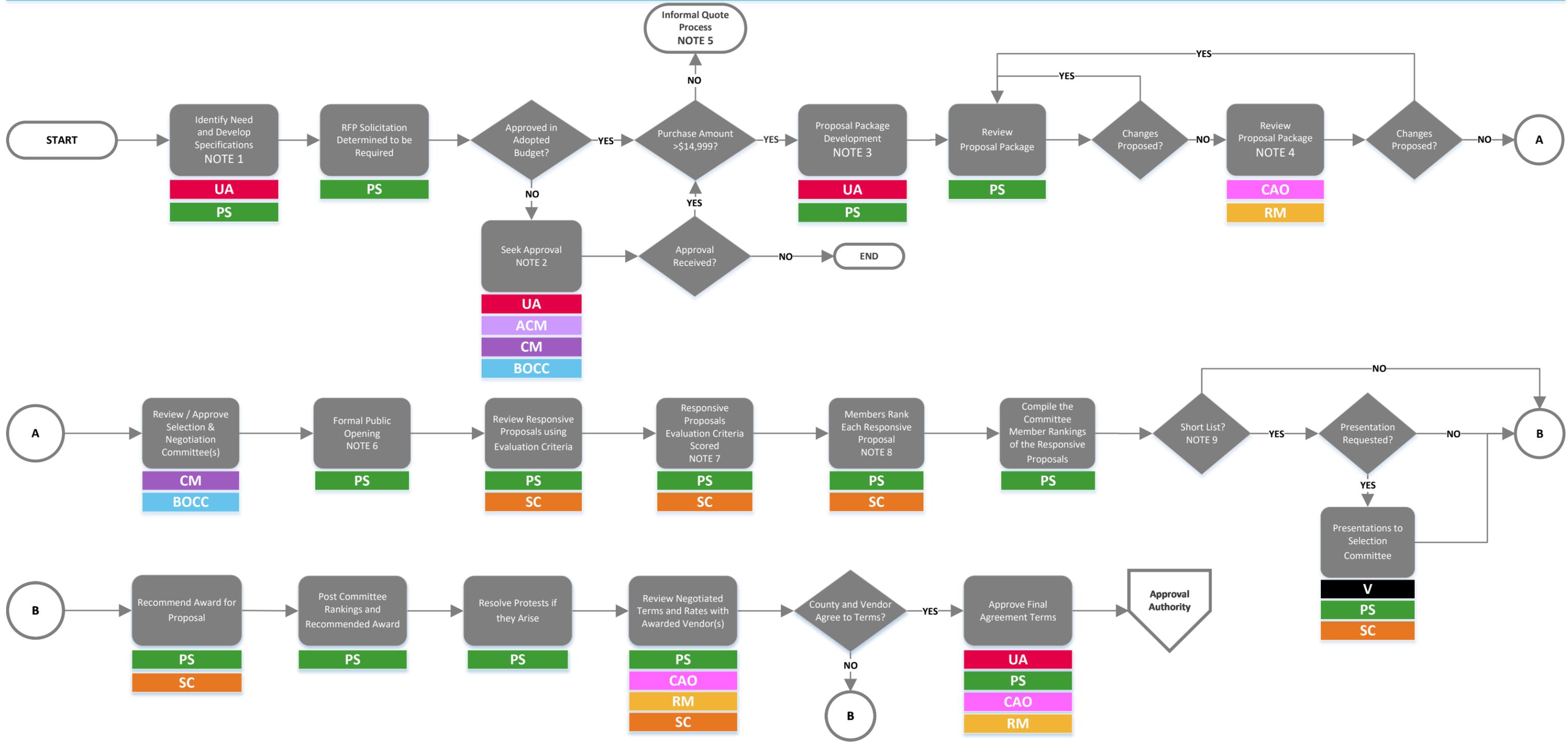


NOTES:

- NOTE 1: The County's Purchasing Manual provides specifications that define the level of performance required rather than specific brand name. The User Agency is expected to show the estimated cost for the purchase, recommended sources, and an adequate scope of work. However, requisitions must not give specifications favoring one supplier to the exclusion of all others. Additionally, the scope of work is reviewed by Purchasing Services to verify accuracy and competitive requirements.
- NOTE 2: Formal bid thresholds: \$15,000-\$24,999 requires Director approval; \$25,000-\$49,999 requires Assistant County Manager approval; \$50,000-\$99,999 requires County Manager approval; <\$99,999 requires BOCC approval.
- NOTE 3: The User Agency prepares and submits scope specifications for any formal sealed bid package to Purchasing Services.
- NOTE 4: Solicitations that incorporate templates approved by CAO and RM will not require further review. However, any exceptions to the approved templates will require approval by CAO and RM.
- NOTE 5: The County makes every effort to solicit at least three (3) responsive and qualified sources for quotes.
- NOTE 6: Bids shall be opened in public at the date, time, and place stated in the public notices.
- NOTE 7: Tabulations are posted on bid hosting sites, which are Demand Star and Vendor Link, no later than three (3) business days after a public opening. The County's purchasing website has links to these bid hosting sites.
- NOTE 8: Purchasing Services verifies that the lowest responsive bidder is qualified. Purchasing Services may use experts to assist in this determination.

County Manager ("CM")	Purchasing Services ("PS")	County Attorney Office ("CAO")	User Agency ("UA")	Budget Office ("BO")
Assistant County Manager ("ACM")	Risk Management ("RM")	Selection Committee ("SC")	Vendor ("V")	Board of County Commissioners ("BOCC")

Appendix D - Brevard County Request for Proposal ("RFP") Solicitation and Evaluation Process

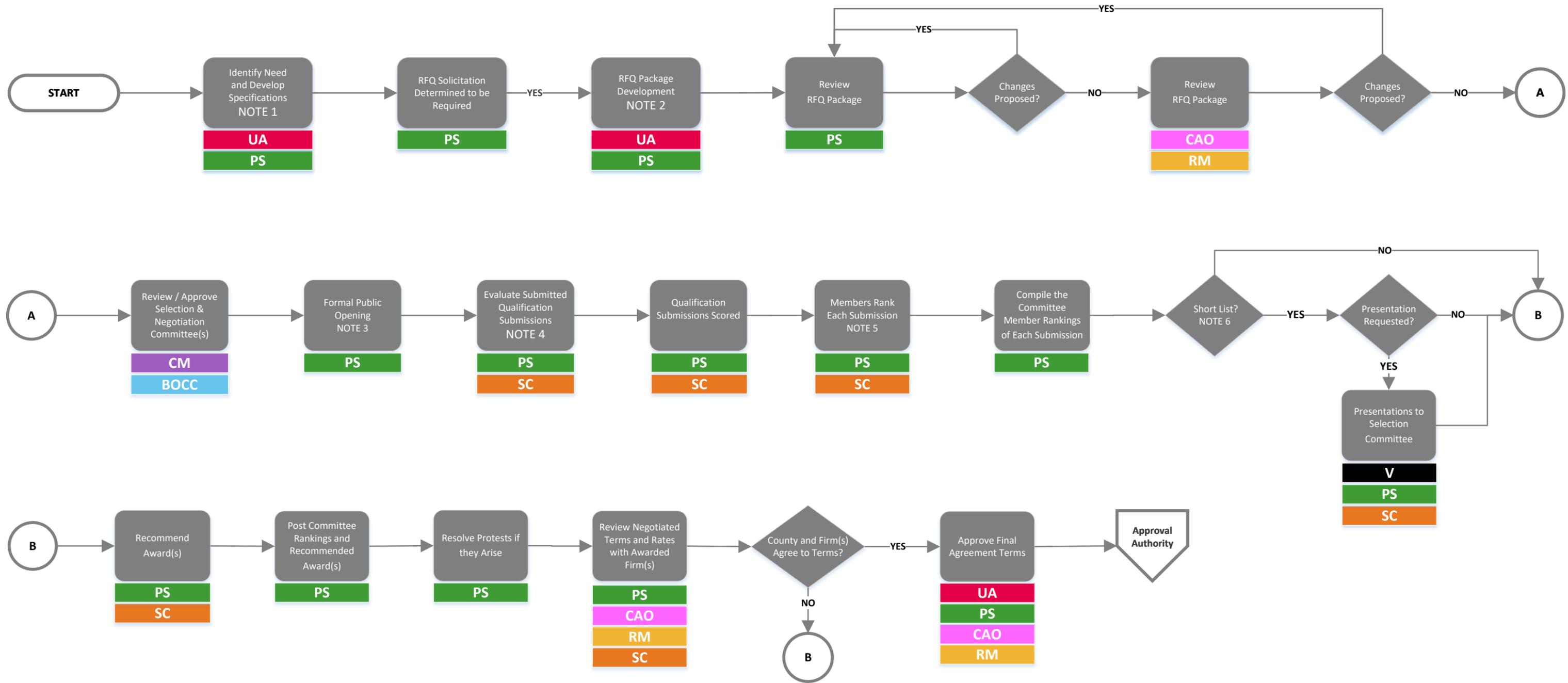


NOTES:

- NOTE 1: The County's Purchasing Manual provides specifications that define the level of performance required rather than specific brand name. The User Agency is expected to show the estimated cost for the purchase and an adequate scope of work. However, requisitions must not give specifications favoring one supplier to the exclusion of all others. Additionally, the scope of work is reviewed by Purchasing Services to verify accuracy and competitive requirements.
- NOTE 2: Formal proposal thresholds: \$15,000-\$24,999 requires Director approval; \$25,000-\$49,999 requires Assistant County Manager approval; \$50,000-\$99,999 requires County Manager approval; <\$99,999 requires BOCC approval.
- NOTE 3: The User Agency prepares and submits scope specifications and evaluation criteria to be used for any formal sealed proposal package to Purchasing Services.
- NOTE 4: Solicitations that incorporate templates approved by CAO and RM will not require further review. However, any exceptions to the approved templates will require approval by CAO and RM.
- NOTE 5: The County makes every effort to solicit at least three (3) responsive and qualified sources for quotes.
- NOTE 6: Proposals shall be opened in public at the date, time, and place stated in the public notices.
- NOTE 7: For RFPs, price will be objectively scored, as shown, when applicable and where able to do so. Experience, capacity for additional work and references are some of the additional criteria evaluated when scoring proposals.
- NOTE 8: Each committee member shall then rank each proposal's score, with the highest score given a number one (1) and so on, until all vendors have a ranked score. A scoring sheet shall be completed by each voting committee member. The rankings are then added for each vendor and the vendor(s) with the lowest sum of collective rankings is recommended for award.
- NOTE 9: The short list includes the highest ranked proposal(s) that have met all solicitation requirements and are in final consideration for award.

County Manager ("CM")	Purchasing Services ("PS")	County Attorney Office ("CAO")	User Agency ("UA")	Budget Office ("BO")
Assistant County Manager ("ACM")	Risk Management ("RM")	Selection Committee ("SC")	Vendor ("V")	Board of County Commissioners ("BOCC")

Appendix D - Brevard County Request for Qualifications ("RFQ") Solicitation and Evaluation Process



NOTES:

NOTE 1: BCC-26 requires the details of recommended projects shall be submitted to the Board for consideration. If approved, the Board minutes shall reflect approval of the project, method of financing, and appointment of a selection committee.

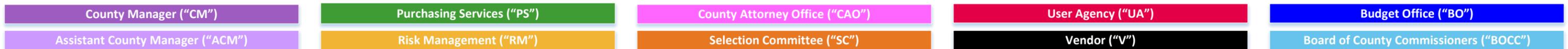
NOTE 2: The User Agency prepares and submits scope of services for any RFQ package to Purchasing Services.

NOTE 3: Submissions shall be opened in public at the date, time, and place stated in the public notices.

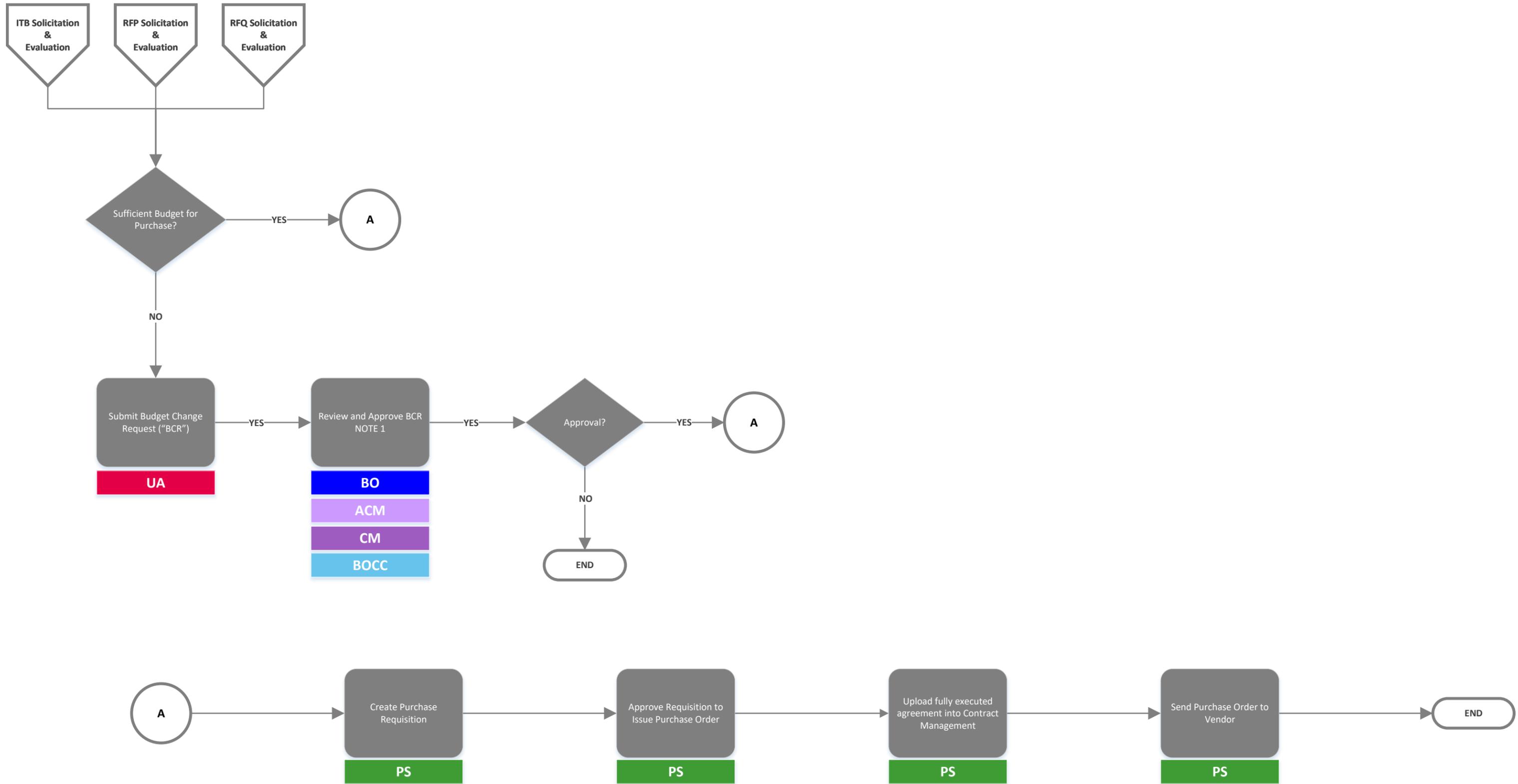
NOTE 4: Submissions are evaluated by the best qualifications and capability to perform. See BCC-25 and BCC-26 for further qualifications and requirements.

NOTE 5: Based on criteria in BCC-25 and BCC-26, each committee member shall then rank each submission's score, with the highest score given a number one (1) and so on, until all submissions have a ranked score. A scoring sheet shall be completed by each voting committee member. The rankings are then added for each vendor and the vendor(s) with the lowest sum of collective rankings is recommended for award.

NOTE 6: The short list includes the highest ranked submission(s) that have met all solicitation requirements and are in final consideration for award.

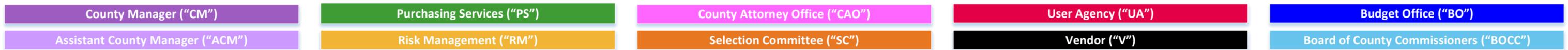


Appendix D - Brevard County Approval Authority for Purchase Orders and Task Orders



NOTE:

NOTE 1: Per BCC-21, the BCR approval thresholds are: \$0-\$25,000 requires Budget Office Director approval; \$25,001-\$50,000 requires Assistant County Manager approval; \$50,001-\$100,000 requires County Manager approval; <\$100,000 requires BOCC approval.





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