



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

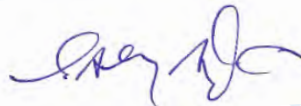
D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

AGENDA
REGULAR MEETING #01-2023
JANUARY 19, 2023 – 7:00 PM AT DISTRICT OFFICES
ALSO, THE MEETING WILL BE AVAILABLE TO THE PUBLIC ONLINE AT:
LOXAHATCHEERIVER.ORG/PUBLICMEETING

1. Call to Order & Pledge of Allegiance
2. Administrative Matters
 - A. Roll Call
 - B. Previous Meeting Minutes Page 3
 - C. Inauguration of Board Members & Oath of Office Page 10
 - D. Election of Officers Page 13
 - E. Additions and Deletions to the Agenda
3. Comments from the Public
4. Status Updates
 - A. Loxahatchee River Watershed Page 14
 - B. Loxahatchee River District Dashboard Page 15
5. Consent Agenda (see next page)
6. Regular Agenda
 - A. Consent Agenda Items Pulled for Discussion
 - B. Governing Board Appointments and Liaisons Page 59
 - C. Science Center at JILONA – Construction Contract Award Page 61
7. Reports (see next page) Pulled for Discussion
8. Future Business Page 126
9. Board Comments
10. Adjournment

“...if a person decides to appeal any decision made by the Board, with respect to any matter considered at such meeting or hearing, he/she will need a record of the proceedings, and that, for such purpose, he/she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.”

Submitted by: 
Date: January 10, 2023

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

5. CONSENT AGENDA

All items listed in this portion of the agenda are considered routine and will be enacted by one motion. There will be no separate discussion of these items unless requested by a Board member or citizen; in which event, the item will be removed and considered under the regular agenda.

- A. Authorization to Execute Reports (Res.2023-01) Page 17
- B. Employee Retirement Plan Trustee Designation – to designate Trustee Page 19
- C. Portable Generator – to approve purchase Page 20
- D. Olympus Drive Low Pressure Sewer System - Preliminary Assessment (Res.2023-02) Page 24
- E. Chlorine Disinfection System Study – to approve Professional Engineering Services Contract Page 31
- F. Gravity System Cleaning and TV Inspection FY23 – to award Piggy-back Contract Page 37
- G. ITB 18-005-LSGENCONSTR / Lift Station Rehabilitation General Construction Services – Contract Extension Page 53
- H. Fixed Asset Disposal – to approve disposal Page 56
- I. Change Orders to Current Contracts – to approve modifications Page 57

7. REPORTS

- A. Neighborhood Sewering Page 67
- B. Legal Counsel's Report Page 69
- C. Engineer's Report Page 73
- D. Busch Wildlife Sanctuary Page 81
- E. Director's Report Page 82



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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Governing Board
FROM: D. Albrey Arrington, Ph.D., Executive Director
DATE: January 10, 2023
SUBJECT: Approval of Meeting Minutes

Attached herewith are the minutes of the Regular Meeting of December 15, 2022 and Board Workshop held January 09, 2023. As such, the following motion is presented for your consideration:

“THAT THE GOVERNING BOARD approve the minutes of the Regular Meeting of December 15, 2022 and Board Workshop of January 09, 2023 as submitted.”

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

Ref: #16-2022

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
REGULAR MEETING - MINUTES
DECEMBER 15, 2022

1. CALL TO ORDER

Chairman Snyder called the Regular Meeting of December 15, 2022 to order at 7:25 PM.

2. ADMINISTRATIVE MATTERS

A. ROLL CALL

The following Board Members were in attendance:

Mr. Snyder
Mr. Boggie (via Goto Webinar)
Mr. Rockoff
Dr. Rostock

Staff Members in attendance were Dr. Arrington, Mr. Dean, Mr. Howard, Ms. Fraraccio, Mr. Pugsley, and Ms. Marshall.

Consultants in attendance were Mr. Curtis Shenkman and Mr. Hunter Shenkman from Shenkman Law, Rebecca Travis from Baxter & Woodman (via Goto Webinar).

Recently elected Board Members in attendance included Mr. Clinton Yerkes and Mr. Kevin Baker.

B. PREVIOUS MEETING MINUTES

“THAT THE GOVERNING BOARD approve the minutes of the November 17, 2022 Regular Meeting as submitted.”

MOTION: Made by Mr. Rockoff, Seconded by Dr. Rostock
Passed Unanimously.

C. ADDITIONS & DELETIONS TO THE AGENDA

3. COMMENTS FROM THE PUBLIC

No comments from the public were received.

4. STATUS UPDATES

A. LOXAHATCHEE WATERSHED STATUS

Mr. Ed Horchar, LRD Safety Officer, presented on workplace safety improvements achieved over the past year including the successful performance of one year of work with zero OSHA recordable injuries. Mr. Horchar thanked the Board for creating and empowering a strong culture supportive of workplace safety and he thanked LRD staff for their personal efforts to identify and mitigate safety concerns within the workplace.

B. LOXAHATCHEE RIVER DISTRICT DASHBOARD

Dr. Arrington reviewed the District Dashboard.

5. CONSENT AGENDA

MOTION: Made by Mr. Rockoff Seconded by Dr. Rostock,
Passed unanimously.

“THAT THE GOVERNING BOARD approve the Consent Agenda of December 15, 2022.”

The following motions were approved as a result of the Board’s adoption of the Consent Agenda:

A. Procurement Policy and Procedures – to approve policy updates

“THAT THE DISTRICT GOVERNING BOARD ratify and approve the attached Procurement Policy and direct the Executive Director to implement the policy with an effective date of December 16, 2022.”

B. Purchase of replacement Network Switches – to approve purchase

“THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to authorize two purchase orders to PC Solutions & Integration, Inc.; one purchase order for the computer networking equipment and software in the amount of \$295,678.36, and a not to exceed purchase order for up to \$12,600 for professional installation and configuration consulting services, in accordance with the attached quotations dated November 4, 2022.”

C. Low Pressure Pump Stations – to approve purchase

“THAT THE DISTRICT GOVERNING BOARD award ITB 23-001-00123 to Southeastern Pump in the amount of \$79,068.00.”

D. Vehicle Fleet – to approve purchase

“THAT THE DISTRICT GOVERNING BOARD reauthorize Purchase Order No. 22-0190, previously issued to Palmetto Ford Truck Sales, in the amount of \$124,775.00 to account for the cost increase associated with the procurement of a Year 2023 replacement vehicle under Florida Sheriff’s Cooperative Purchasing contract FSA22-VEH20.0.”

“THAT THE DISTRICT GOVERNING BOARD authorize the FSA contract with Bozard Ford Government Fleet for FSA22-VEL30.0 in accordance with the November 2, 2022 proposal from Bozard in the amount of \$62,142.00”.

E. Electrical System Condition Assessment, Short Circuit, Device Coordination and Arc Flash Study – to approve Professional Engineering Services Agreement

“THAT THE DISTRICT GOVERNING BOARD authorize Work Authorization 2022-9 with Holtz Consulting Engineer’s in the amount of \$138,857.16 and a contingency of \$14,000.”

F. Bulk Polymer (SNF Polydyne) – to approve annual contract

“THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to execute a purchase order to Polydyne, Inc. for the supply of cationic emulsion polymer, in accordance with a “piggy-back” of Hillsborough County ITB No. 21632-0-2021/OR for the period commencing on December 16, 2022 through September 30, 2023, in an amount Not-to-Exceed \$90,000.00.”

G. Fixed Asset Disposal – to approve disposal

“THAT THE GOVERNING BOARD authorize the Executive Director to dispose of tangible personal property included in Schedule 1: Tangible Personal Property Disposals and the assets listed in Schedule 2: Renewal and Replacement Disposals in accordance with the District’s Disposal of Surplus Tangible Personal Property Policy.”

H. Change Orders to Current Contracts – to approve change order

“THAT THE DISTRICT GOVERNING BOARD authorize Change Order 002 with Chen Moore and Associates in the amount of \$4,240.00.”

6. REGULAR AGENDA

A. CONSENT AGENDA ITEMS PULLED FOR DISCUSSION

B. FY23 Main Lining – Piggyback Contract

“THAT THE DISTRICT GOVERNING BOARD re-authorize the “piggyback” of the St. Johns County Master Contract No. 21-MCC-GRA-13190 with Inliner Solutions for a total amount not to exceed \$1,875,000.”

MOTION: Made by Dr. Rostock, Seconded by Mr. Rockoff
Passed unanimously.

C. Money Purchase Plan and Trust (Retirement Plan) Investment Policy – to approve revisions

“THAT THE DISTRICT GOVERNING BOARD adopt the Exchange Traded Funds (ETF) list provided by the District’s investment consultant to the Retirement Plan and ratify and approve the Loxahatchee River Environmental Control District’s Retirement Plan Investment Policy as revised with an effective date of December 16, 2022.”

MOTION: Made by Mr. Rockoff Seconded by Dr. Rostock,
Passed unanimously.

D. Executive Director Annual Review

“THAT THE DISTRICT GOVERNING BOARD receive the review of Dr. Albrey Arrington, Executive Director, and adjust his Employment Agreement as follows: effective December 24, 2022, a 2% increase in base salary and a net \$10,000 bonus.”

MOTION: Made by Mr. Rockoff Seconded by Dr. Rostock,
Passed unanimously.

7. REPORTS

The following reports stood as written.

A. NEIGHBORHOOD SEWERING

B. LEGAL COUNSEL’S REPORT

C. ENGINEER’S REPORTS

D. BUSCH WILDLIFE SANCTUARY

E. DIRECTOR’S REPORT

8. FUTURE BUSINESS

Dr. Arrington reviewed Future Business.

9. COMMENTS FROM THE BOARD

10. ADJOURNMENT

MOTION: Made by Mr. Rockoff, Seconded by Dr. Rostock,
Passed Unanimously.

“That the Regular Meeting of December 15, 2022 adjourns at 8:18 PM.”

BOARD CHAIRMAN

BOARD SECRETARY

RECORDING SECRETARY

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
BOARDWORKSHOP MINUTES
JANUARY 09, 2023

1. CALL TO ORDER

Dr. Rostock called the Workshop Meeting of January 09, 2023 to order at 9:30 AM.

2. ROLL CALL

The following Board Members were in attendance:

Mr. Boggie
Mr. Rockoff
Dr. Rostock
Mr. Baker (elected, not yet sworn in)
Mr. Yerkes (elected, not yet sworn in)

Staff Members in attendance were Dr. Arrington, Mr. Dean, Mr. Howard, Ms. Fraraccio. Consultants in attendance were Ms. Laura Donaldson from Manson Bolves Donaldson Tanner, PA, and Mr. Curtis Shenkman and Mr. Hunter Shenkman from Shenkman Law.

3. COMMENTS FROM THE PUBLIC

No comments were offered by the public.

4. TRAINING AND DISCUSSION OF FLORIDA'S GOVERNMENT IN THE SUNSHINE AND ETHICS LAWS

Ms. Laura Donaldson provided a comprehensive presentation and discussion of Florida's Government in the Sunshine Laws (e.g., public meetings definitions and requirements, examples of sunshine law violations, "shade" meetings, meetings exempt from sunshine, penalties and cures to sunshine violations, and public records laws). After a brief break, Ms. Donaldson provided a thorough presentation on Florida's ethics laws, originating in the Florida Constitution, Chapter 112, Florida Statutes as well as Chapter 838, F.S., Section 839.26, F.S., and 18 USC sec. 1346. Governing Board members were engaged and asked questions throughout the presentations.

4. COMMENTS FROM THE BOARD

No additional comments were provided by the Governing Board.

5. ADJOURNMENT

MOTION: Made by Dr. Rostock, Seconded by Mr. Boggie.
Passed Unanimously.

"That the workshop meeting of January 09, 2023 adjourn at 12:39 PM."

BOARD CHAIRMAN

BOARD SECRETARY

RECORDING SECRETARY



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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Governing Board
FROM: D. Albrey Arrington, Ph.D., Executive Director
DATE: January 10, 2023
SUBJECT: Oath of Office

In accordance with the laws of our State, each newly elected or re-elected Board Member is administered the "Oath of Office" prior to commencing his or her term of office.

We will, therefore, administer the attached Oath to our newest Board Members, Mr. Yerkes and Mr. Baker, and returning Board Members, Dr. Rostock, Mr. Rockoff and Mr. Boggie. As has been our practice, all existing Board members will be invited to join in taking the oath and thus reaffirming their commitment.

Congratulations gentlemen and best of luck during your upcoming term.

Signed,

D. Albrey Arrington
Executive Director

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

**OATH OF OFFICE
OF A BOARD MEMBER
OF
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT**

"I do solemnly swear that I will support, protect, and defend the constitution and government of the United States and of the State of Florida; that I am duly qualified to hold office under the constitution of the state; and that I will well and faithfully perform the duties of member of the Loxahatchee River Environmental Control District Governing Board on which I am now about to enter. So help me God."

(Name) Clinton Yerkes

Sworn to and subscribed before me this

_____ day of _____ 2023.

Notary Public
State of Florida at Large

(Notary Seal)

**OATH OF OFFICE
OF A BOARD MEMBER
OF
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT**

"I do solemnly swear that I will support, protect, and defend the constitution and government of the United States and of the State of Florida; that I am duly qualified to hold office under the constitution of the state; and that I will well and faithfully perform the duties of member of the Loxahatchee River Environmental Control District Governing Board on which I am now about to enter. So help me God."

(Name) Kevin Baker

Sworn to and subscribed before me this

_____ day of _____ 2023.

Notary Public
State of Florida at Large

(Notary Seal)



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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Governing Board
FROM: D. Albrey Arrington, Ph.D., Executive Director
DATE: January 10, 2023
SUBJECT: Election of Officers

The Governing Board annually conducts an election of officers to fill the five positions described below. Existing officers are shown in parentheses.

Chairman (Snyder): runs the meetings, executes contracts and documents, and sets meeting agendas.

Vice-Chairman (Rostock): fills in for the Chairman in his absence and conducts official business as may be delegated by the Chair.

Treasurer (Rockoff): signs checks and monitors the budget through review of monthly statements and the audit.

Secretary (Boggie): keeps the records of the District in proper order and attests formal documents.

Assistant Secretary/Treasurer (vacant): acts in the absence of the Secretary or Treasurer of the Board.

At our meeting this month, Vice-Chairman Rostock will open the floor for nominations. If necessary, an election, by hand count or ballot, may be conducted. Once the new Chairman is elected, he will receive the gavel and conduct the remainder of the meeting.

Suggested motion format:

"THAT THE GOVERNING BOARD elect: Dr. Rostock to serve as Chairman, Mr. Rockoff to serve as Vice Chairman, Mr. Boggie to serve as Treasurer, Mr. Yerkes to serve as Secretary and Mr. Baker to serve as Assistant Treasury of the Governing Board of the Loxahatchee River Environmental Control District."

If you have any questions or concerns regarding this procedure, please give me a call.

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



Loxahatchee River Watershed Status North Atlantic Right Whale Sighting

On January 12th, 2023, we had a pair of extraordinarily rare marine visitors – a North Atlantic Right Whale and her calf spent the day just off the coast between Jupiter Inlet and Juno pier. They provided a great opportunity so see one of the rarest animals in the world, with latest estimates suggesting there are fewer than 350 animals remaining. At our meeting we will provide a summary of some of the fascinating aspects of these animals.



LOXAHATCHEE RIVER DISTRICT'S EXECUTIVE DASHBOARD



		Stewardship	Pre-Treatment	Collection & Transmission		Wastewater Treatment			Reclaimed Water	EHS	General Business					River Health		
		# People educated at RC	Grease Interceptor Inspections	Customer Service	Unauthorized Discharge of Sewage	Mean Daily Incoming Flow	Permit exceedance	NANO Blend to Reuse (@ 511)	Delivery of Reclaimed Water	Employee Safety	Cash Available	Revenue (excluding assessment & capital contrib.)	Operating Expenses	Capital Projects		Minimum Flow Compliance	Salinity @ NB seagrass beds	River Water Quality
Units		% of Target	% requiring pump out	# blockages with damage in home	Gallons; # impacting surface waters	million gallons/day	# occurrences	Max Specific Conductance (umhos/cm)	# days demand not met	# of OSHA recordable injuries	\$	% of Budget	% of Budget	% within budget	average # days ahead (behind) schedule	# Days MFL Violation	‰	Fecal Coliform Bacteria (cfu/100ml)
Green Level		≥ 90%	≤ 15	Zero	<704; 0	< 7.7	Zero	<1542	<2	Zero	≥ \$9,894,657	≥ 95%	≥ 85% but ≤ 105%	≥ 80%	≥ (30)	0	min ≥ 20 ‰	≤ 1 site > 200
Yellow		< 90%	≤ 25	1	≤1,500; 0	< 8.8	1	≤1875	≥ 2	-	< \$9,894,657	≥ 90%	≥ 80%	≥ 60%	< (30)	1	min ≥ 10 ‰	≤ 3 sites >200
Red		<75%	> 25	≥ 2	>1,500; ≥1	≥ 8.8	≥ 2	>1875	≥ 9	≥ 1	< \$5,557,057	< 90%	< 80% or > 105%	< 60%	< (60)	≥ 2	min < 10 ‰	≥ 4 sites > 200
2019 Baseline		100%	9	1	8,022	6.8	0	1,229	1	0.3	\$ 35,137,006	100%	89%	95%		2	22.9	1
2020 Baseline		34%	8	0	3,292	7.2	0	1,183	1	0.3	\$ 35,350,661	100%	90%	91%	-15	7	14.6	2
2021 Baseline		113%	16	0.3	1,130	7.1	0	1,294	2	0.2	\$ 40,651,532	97%	89%	79%	-34	0	24.3	3
2021	Dec	67%	12	0	1,500; 0	7.3	0	1,021	0	0	\$ 42,827,478	106%	98%	78%	(55)	0	18.6	0
2022	Jan	65%	16	0	25; 0	7.3	0	1,154	0	0	\$ 42,677,604	103%	95%	77%	(42)	0	27.9	4
	Feb	79%	8	0	225; 0	7.3	0	1,383	0	0	\$ 44,675,863	101%	94%	80%	(54)	0	30.2	3
	Mar	91%	12	0	241; 0	7.2	0	1,384	0	0	\$ 44,151,634	100%	93%	80%	(59)	0	24.0	2
	Apr	104%	22	1	217; 0	7.1	0	1,296	0	0	\$ 44,230,248	103%	93%	83%	(62)	0	29.3	4
	May	55%	13	0	13; 0	6.5	0	1,312	1	0	\$ 46,067,857	102%	92%	81%	(39)	16	31.8	2
	June	86%	14	0	17; 0	6.6	0	1,249	1	0	\$ 44,902,557	101%	91%	81%	(36)	0	20.6	4
	July	95%	8	0	310; 0	6.2	0	1,245	7	0	\$ 44,247,503	102%	93%	81%	(52)	0	26.9	4
	Aug	88%	10	0	45; 0	6.3	0	1,275	4	0	\$ 45,392,935	101%	92%	84%	(69)	0	32.2	3
	Sept	77%	10	0	11; 0	6.4	0	1,207	13	0	\$ 43,373,290	92%	92%	84%	(87)	0	5.0	4
	Oct	79%	13	0	120; 0	6.9	0	1,101	5	0	\$ 43,464,126	97%	84%	86%	(34)	0	13.8	3
	Nov	53%	9	0	31; 0	7.2	0	1,269	3	0	\$ 45,258,800	103%	83%	87%	(36)	0	17.3	0
	Dec	94%	14	0	3,482; 0	7.1	0	1,342	0	0	\$ 44,024,404	107%	92%	89%	(36)	0	11.8	1
Consecutive Months at Green		1	8	8	0	163	20	17	1	13	159	14	1	11	0	7	0	2
Metric Owner		O'Neill	Pugsley	Dean	Dean	Pugsley	Pugsley	Pugsley	Dean	Horchar	Fraraccio	Fraraccio	Fraraccio	Dean	Dean	Howard	Howard	Howard

Metric

Unauthorized Discharges

Capital Projects (time)

Salinity @ North Bay

Explanation

This month we had a disappointing number and magnitude of unauthorized discharges of sewage at six locations: (1) 1,515 gallons + 728 gallons failed discharge fitting and emergency discharge assembly at a low pressure sewer system (back to back days); (2) 722 gallons in Whispering Trails gravity sewer system due to loss of power to the lift station; (3) 420 gallons due to a broken gravity cleanout in the numbered streets; (4) 83 gallons due to a broken low pressure sewer system flapper check valve; (5) 10 gallons due to a failed low pressure sewer system anti-siphon valve; (6) 4 gallons due to a low pressure sewer system discharge pipe failure. See Kris' report for additional information.

The following six projects are >100 days behind schedule: (1) Science Center at BLM (-363 days) expecting award this month; (2) new bridge crane for master lift station (-163 days) working on punch list; (3) Improvements to main IQ pump station and piping (-159 days) substantial completion expected this month; (4) Conversion of Lift Station 82 to a submersible station (-123 days) unforeseen conditions continue to impact this project; (5) replace 2 portable generators (-120 days) award of contract expected this month; (6) Rehab of Clarifier #3 (-119 days) working on final punch list. Additional details are available in Kris' report.

Flows over Lainhart dam peaked at 336 cfs on Dec 14th and the following day salinities at North Bay declined to 11.8 ppt. The low salinity was a brief excursion (minimum daily salinity below 20 ppt only lasted 4 days), and salinity averaged 32.8 ppt for the month at North Bay. See Bud's report for more detailed information.



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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Governing Board
FROM: Administration Staff
DATE: January 10, 2023
SUBJECT: Consent Agenda

All items listed below are considered routine and will be enacted by one motion. There will be no separate discussion of these items unless requested by a Board Member or citizen, in which event, the item will be removed and considered under the regular agenda.

This month's consent agenda consists of the following items:

- A. Authorization to Execute Reports (Res.2023-01)
- B. Employee Retirement Plan Trustee Designation – to designate Trustee
- C. Portable Generator – to approve purchase
- D. Olympus Drive Low Pressure Sewer System - Preliminary Assessment (Res.2023-02)
- E. Chlorine Disinfection System Study – to approve Professional Engineering Services Contract
- F. Gravity System Cleaning and TV Inspection FY23 – to award Piggy-back Contract
- G. ITB 18-005-LSGENCONSTR / Lift Station Rehabilitation General Construction Services – Contract Extension
- H. Fixed Asset Disposal – to approve disposal
- I. Change Orders to Current Contracts – to approve change order

Should you have any questions regarding these items, I would be pleased to discuss them further with you.

The following Motion is provided for Board consideration:

“THAT THE GOVERNING BOARD approve the Consent Agenda of January 19, 2023 as presented.”

Signed

D. Albrey Arrington, Ph.D.
Executive Director

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Governing Board
FROM: Kara Fraraccio
DATE: January 13, 2023
SUBJECT: Approval of Resolution 2023-01

Attached herewith is Resolution 2023-01, authorizing specific signatures for execution of all reports required under the Florida Statutes.

Therefore, I recommend the following motion:

“THAT THE GOVERNING BOARD approve Resolution 2023-01 authorizing specific signatures for execution of all reports required under the Florida Statutes.”

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

RESOLUTION NO. LRECD 2023-01

A RESOLUTION OF THE LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT AUTHORIZING SPECIFIC SIGNATURES FOR EXECUTION OF ALL REPORTS REQUIRED UNDER THE FLORIDA STATUTES AND PROVIDING FOR AN EFFECTIVE DATE.

NOW, THEREFORE, BE IT RESOLVED by the Loxahatchee River District Board as follows:

1. The Executive Director (D. Albrey Arrington) and/or Deputy Executive Director (Kris Dean), or their designee, are hereby authorized on behalf of the Loxahatchee River District to execute all permits and reports required under the Florida Statutes and as required by any other rule, statute, law, ordinance, or regulation.
2. As relates to financial reports, the Director of Finance and Administration (Kara Fraraccio) is also authorized to sign.
3. As relates to permit-required Reports, sent to the Environmental Protection Agency and the Department of Environmental Protection, the Operations Plant Manager (Jason Pugsley), or his designee, is also authorized to sign.
4. This Resolution shall be effective as of the date of its adoption.

PASSED and ADOPTED at the regular Board Meeting by the Loxahatchee River District Board on January 19, 2023.

Loxahatchee River Environmental Control District

_____, Chairman

Attest:

_____, Vice Chairman



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Governing Board
FROM: D. Albrey Arrington, Ph.D., Executive Director
DATE: January 10, 2023
SUBJECT: Election of Trustee

Loxahatchee River Environmental Control District Money Purchase Plan and Trust, the official name of the District's defined contribution retirement plan, is managed by an Administrative Committee. The Administrative Committee is comprised of the Chairman of the Governing Board (to be determined), the Executive Director (Albrey Arrington), the Director of Finance and Administration (Kara Fraraccio), an Employee Representative (Thomas Ryan), and a Trustee. The Trustee is defined as "a member of the (District's) Governing Board who is elected annually from among the members of the Governing Board."

The Board needs to elect a Board Member to serve as Trustee for 2023. Mr. Boggie is willing to serve as Trustee

Therefore, I recommend the following motion:

"THAT THE GOVERNING BOARD elects Mr. Gordon Boggie to serve as Trustee for the Loxahatchee River Environmental Control District Money Purchase Plan and Trust."

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: D. Albrey Arrington, Ph.D., Executive Director
FROM: Kris Dean, P.E., Deputy Executive Director/Director of Engineering Services
DATE: January 12, 2023
SUBJECT: Portable Generator Purchase: Award of Contract

The District maintains a fleet of 48 portable generators. These generators are a key component of the District's emergency response plan including hurricanes. As the fleet ages staff plan for the replacement of the oldest and/or least reliable generators in the fleet. This year two generators have been identified for replacement.

Staff propose to piggy-back on the existing Florida Sherriff Association and the Association of Counties (FSA&AC) contract with ACF Standby Systems for 2-150KW Mobile Generator Package. The below is a summary of the generators to be purchased.

(2) Generator MDG175DF4 (150KW) \$103,283.89 each

Total: \$206,567.78

Staff recommend the following motion:

"THAT THE DISTRICT GOVERNING BOARD authorize the piggy-back of the FSA&AC contract for FSA20-EQU18.0: HEAVY EQUIPMENT with ACF Standby Systems for a 150KW Mobile Generator Package in accordance with ACF Standby Systems quote dated December 30, 2022 in the amount of \$206,567.78"

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



A-F Standby Systems
Power Generation



Date: December 30, 2022

To: Jim Novak, Collections & Distribution Superintendent

Reference: Loxahatchee River Environmental Control District – REV1

We are pleased to offer the following quote for the above project:

FSA20-EQU18.0: HEAVY EQUIPMENT

- 150kW Mobile Generator Package – Generac MDG175DF4, Item # 120\$92,016.00
- **DOWNGRADE to MDG150DF4 Mobile Diesel Generator.....\$ 1,842.11**
- ADDER for 24 Hour Double Wall Tank.....\$ 6,500.00
- ADDER for Battery Charger.....\$ 1,225.00
- ADDER for Battery Lockable Disconnect.....\$ 885.00
- ADDER for Permanent Magnet Generator.....\$ 4,500.00

Sub Total: \$103,283.89

Quantity 2 = 2 x (\$103,283.89)

Grand Total: \$206,567.78

Quantity 2 - Generac Mobile diesel engine-driven generator set MDG150DF4, consisting of the following features and accessories:

- Trailered Unit
- 150KVA Rating, 60Hz
- 4-Position Voltage Selector Switch
 - 277/480VAC Three Phase
 - 120/208VAC Three Phase
 - 120/240VAC Three Phase
 - 120/240VAC Single Phase
- Prime Duty Rating
- CSA
- Variable Speed Cooling Fan
- 24 Hr Double Wall Tank
- Tandem Axle
- 10A Battery Charger
- Lockable Battery Disconnect
- Electric Brakes
- 3 in. Pintle Ring Adjustable
- Trailer Adapter, Flat 4 to Round 7 Spade
- 4-Position Phase Selector Switch

- MDG150DF4

Quantity 1 - Freight to job site off-loading by others

Clarifications and Exceptions:

- Local Noise Ordinances unknown. Should lower dBA rating required price is subject to change.
- No Enclosure Wind Load P.E. Calculations. Optional adder.
- Buyers referenced to local, state, or federal government requirements.
- No Anchoring Calculations and/or anchors.
- Fire Pump ATS Provided by Others
- No Offloading.
- No installation.
- No rigging.
- No power systems or selective coordination study.
- Equipment performance beyond manufacturer's design.
- No Storage or insurance.
- No third-party electrical apparatus testing / inspections, and/or special testing (emissions, noise, harmonics, etc...
- NO NETA Testing Must be performed by third party agency.
- No Special testing equipment (oscilloscope, thermal camera, harmonic analyzer, InfraRed, etc...
- No general, civil and/or plumbing work or materials.
- No electrical and/or mechanical work including materials.
- No engineering or permitting.
- No third-party testing agency.
- If this project is an AHCA project and AHCA does not approve quote additional cost could occur to make AHCA Compliant.
- No Sound Testing by ACF.
- No fuel or equipment rental.
- No Sub-base in field pressure integrity testing.
- No Maintenance Contract by ACF.
- Arc Flash/ Coordination studies are to be completed by others.

Notes

1. This Quotation is based upon Engineering Specifications ____N/A____ & Drawings ____N/A____. No other sections shall apply.
2. Quotation is valid for 60 days. If not released to production within 60 days, pricing, delivery extension and escalation charges may apply.
3. ACF Standby Systems is not responsible for any delays in delivery due to Act of Nature, explosion, fire, strikes, accidents, war, terrorism, flood, accidents or other causes beyond our company control. Quoted shipping schedules are not guaranteed and subject to change without notice. In no case is ACF Standby Systems responsible for incidental or consequential damages.
4. ACF Standby Systems does not accept liquidated damages as a part of third party contracts.
5. Equipment will be invoiced (and payment expected according to ACF's Terms and Conditions) at the time of shipment or when ready to ship from point of origin. Delays by the buyer may result in storage fees and/or additional freight charges.
6. Completed equipment to be delivered to a 3rd party manufacturer for further fabrication will be invoiced upon shipment to the 3rd party manufacturer.
7. The warranty is that of the above-named manufacturer(s). Refer to the manufacturer's warranty statement for details. No special warranty is implied. The Manufacturer's warranty begins on the day of start-up or 6 months

after shipment, whichever occurs first, not substantial completion. It is the contractor's responsibility to coordinate start-up along with the date of substantial completion.

8. If the generator set is not installed and ready for startup within 6 months of shipment it will require long term storage procedures. Please refer to the Operation and Maintenance Manual for such requirements. All costs related to long term storage is the responsibility of the purchaser. Failure to follow these procedures may void warranty and affect equipment operation. Contact ACF Standby Systems for assistance.
9. Additional sets of O&M manuals are available at an additional cost. The manufacturer's standard format shall apply. Custom O&M manuals will be available at an additional charge.
10. Startup services will not proceed until the buyer's account is current and in good standing.
11. Quotation does not include offloading, rigging, anchoring, installation, exhaust plumbing, exhaust insulation, fuel or permitting.
12. ACF Standby Systems is not responsible for testing of fuel tank(s) provided by any party. Fuel tank testing, as required by FDEP (Florida Department of Environmental Protection) Chapters 62-761 and 62-762, is the responsibility of the installing Contractor and Generator Permit Applicant. ACF Standby Systems LLC is not responsible for damages or costs incurred by any party, when a fuel tank is filled before field testing required under FDEP or testing mandated by a Local Inspector of Authority under FBC, is performed.
13. Pricing is subject to ACF Standby Systems' Payment Terms.

Terms and Conditions

This proposal is subject to ACF Terms and Conditions of Sale, attached.

Sincerely,

Zach Stewart

ACF Standby Systems, LLC / GENERAC Industrial Distributor
(352) 502-2718
z.stewart@acfpower.com

Acceptance of Quote

Prior to ordering equipment or services, please sign and return as a confirmation of the content of this proposal and the attached terms and conditions

Customer Signature

_____ PO# _____

**CURTIS L.
SHENKMAN**
*Board Certified
Real Estate Attorney*

**HUNTER C.
SHENKMAN**
Attorney

CURTIS SHENKMAN, P.A.
ATTORNEY & COUNSELOR AT LAW
4400 PGA BLVD, SUITE 300
PALM BEACH GARDENS, FL 33410
561-822-3939 FAX 561-898-2266
CURTIS@PALMBEACHLAWYER.LAW

PARALEGALS
JUDY MONTEIRO
DENISE B. PAOLUCCI

Sent by email January 10, 2023

D. Albery Arrington, PhD., Executive Director
Loxahatchee River Environmental Control District
2500 Jupiter Drive
Jupiter, Florida 33458-8964

Re: Resolution 2023-02 and Preliminary Assessment Roll for OLYMPUS DRIVE

Dear Dr. Arrington:

Please attach to this letter is Resolution 2023-02, Exhibit "A" Preliminary Assessment Roll, & Exhibit "B" Map & most recent list of property owners as part of the Resolution.

In the Resolution, Sections 2 and 7, the "Board of Adjustment" public hearing and "Governing Board" meeting to confirm the "final" assessment roll is proposed for **FEBRUARY 16, 2023**. Preparation is necessary of the Notice to be published and mailed out by **Friday, February 3, 2023**.

A **SUGGESTED MOTION** for the Board at the January 19, 2023 meeting is as follows:

**"THAT THE GOVERNING BOARD approve Resolution 2023-02 adopting the
OLYMPUS DRIVE Preliminary Assessment Roll."**

Sincerely,

Curtis L. Shenkman

Curtis L. Shenkman

LRECD RESOLUTION NO. 2023-02

A RESOLUTION OF THE LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT RELATING TO THE **OLYMPUS DRIVE** ASSESSMENT AREA IMPROVEMENTS; ADOPTING THE PRELIMINARY ASSESSMENT ROLL FOR **OLYMPUS DRIVE** ASSESSMENT AREA IMPROVEMENTS AS PREPARED BY THE DISTRICT CLERK AND ATTACHED HERETO AS EXHIBITS “A” AND “B”; AUTHORIZING THE DISTRICT GOVERNING BOARD TO ACT AS THE BOARD OF ADJUSTMENT; PROVIDING FOR THE FURNISHING OF TEN DAYS’ WRITTEN NOTICE TO ALL PROPERTY OWNERS AFFECTED; DIRECTING THAT AN AFFIDAVIT OF PUBLICATION BE OBTAINED; REQUIRING THE FILING OF THE PROOF OF PUBLICATION AND OF THE WRITTEN NOTICE; MAKING REFERENCE TO RESOLUTION NO. **2020-05** PROVIDING FOR THE PUBLICATION OF THE NOTICE OF THE MEETING TO CONSIDER CONFIRMATION OF THE PRELIMINARY ASSESSMENT ROLL; DIRECTING THAT AN AFFIDAVIT OF PUBLICATION BE OBTAINED; REQUIRING THE FILING OF THE PROOF OF PUBLICATION; PROVIDING FOR CONSISTENCY; PROVIDING FOR SEVERABILITY; PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Governing Board of the Loxahatchee River Environmental Control District (hereinafter called the “District” has authorized the sewer improvements to the **OLYMPUS DRIVE** Assessment Area in **PALM BEACH** County, Florida.

WHEREAS, the Governing Board has considered the presentation of the District Engineer and considered such recommendations to be in accordance with the requests and the best interests of the citizens of the District.

WHEREAS, the Governing Board has considered the improvements to be in accordance with the best interests of the citizens of the **OLYMPUS DRIVE** Assessment Area.

WHEREAS, the District’s previous Resolution **2020-05** was approved by the District’s Governing Board and directed the preparation of the Assessment Roll.

WHEREAS, the District Clerk has prepared the Preliminary Assessment Roll attached hereto as Exhibits “A” and “B”.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE DISTRICT, THAT:

Section 1. The District adopts the Preliminary Assessment Roll in the form as attached hereto as Exhibits “A” and “B”.

RESOLUTION 2023-02
OF THE LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

Section 2. The District Clerk is directed to publish a Notice stating that the District's Governing Board shall act as the **Board of Adjustment** at a hearing to be held on the **16th day of February, 2023** at the District's Governing Board meeting chambers, Jupiter, Florida. Such Notice shall be published at least ten (10) days in advance of such hearing, once in a newspaper published in Martin County and once in a newspaper published in Palm Beach County. Such Notice shall state that at the hearing, the Governing Board will hear objections of all interested persons to the confirmation of such resolution. Such Notice shall state in brief and general terms a description of the improvements with the location thereof and shall also state that plans, specifications, estimates, and the tentative apportionment of cost thereof are on file in the office of the District. The District Clerk is directed to mail a copy of such Notice to each of the affected property owners at least ten (10) days in advance of the hearing.

Section 3. During the Board of Adjustment hearing, such affected property owner may present information to the Governing Board in relation to his Special Assessment and the project, provided that such property owners must submit in writing to the District either prior to or at the time of said meeting of the Board of Adjustment their objections to the Special Assessment.

Section 4. The District Clerk is directed to obtain from the publisher of the newspaper(s) used for publication herein an affidavit confirming the publication of the Notice of the Hearing of the Governing Board as the Board of Adjustment as set forth herein.

Section 5. The District Clerk shall file Proof of Publication and Proof of Written Notice to the affected property owners at the Board of Adjustment hearing.

Section 6. Resolutions No. **2020-05 and 2023-02** of the District shall be a part of the record to be considered by the Governing Board at the aforescribed hearing when the Governing Board sits as the Board of Adjustment.

Section 7. The District Clerk is directed to publish a Notice stating that at the meeting of the Governing Board to be held on **February 16, 2023** at the District Governing Board meeting chambers, Jupiter, Florida, all interested persons may appear and file written objections to the confirmation of the Final Assessment Roll. Such Notice shall be published at least twelve (12) days in advance of such meeting, once in a newspaper published in Martin County and once in a newspaper published in Palm Beach County. Such Notice shall state the class of the improvement and the location thereof by terminal points and route. Such Notice shall also be mailed to those interested parties requesting such in writing.

Section 8. The District Clerk is directed to obtain from the publisher of the newspaper(s) used for publication herein an affidavit confirming the publication of the Notice of the Meeting of the Governing Board to confirm the Final Assessment Roll.

Section 9. All Resolutions or parts of Resolutions in conflict herewith are hereby repealed to the extent of such conflict.

RESOLUTION 2023-02
OF THE LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

Section 10. In the event that any portion of this Resolution is found to be unconstitutional or illegal, it shall be severed herefrom without affecting the validity or enforceability of the remaining portions of this Resolution.

Section 11. This Resolution shall become effective upon its passage and adoption.

PASSED AND ADOPTED BY THE GOVERNING BOARD OF THE LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT, THIS 19th day of **January, 2023.**

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

VOTE

DR. MATT H. ROSTOCK

STEPHEN ROCKOFF

GORDON M. BOGGIE

CLINTON YERKES

KEVIN BAKER

EXHIBIT "A"
PRELIMINARY ASSESSMENT ROLL
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
OLYMPUS DRIVE ASSESSMENT AREA

TOTAL COSTS AND EXPENSES RELATED TO THE IMPROVEMENTS. The District shall consider the **total** costs and expenses related to the improvements in the **OLYMPUS DRIVE** Assessment Area shall be **\$ 25,507.01** per parcel of property in the Area.

APPORTIONMENT OF COSTS BETWEEN THE DISTRICT AND THE PROPERTY OWNERS. The District shall pay from the District's general funds ten percent (10%) of the total cost to the District of construction, reconstruction, labor, materials, acquisition, or property rights, surveys, design, engineering, and legal fees, administration expenses, and all other expenses necessary or incidental to completion of the specially assessed improvement and each lot or parcel of land subject to this special assessment shall be responsible for ninety percent (90%) of the total cost.

PAYMENT OF ASSESSMENT. As to Parcels of **OLYMPUS DRIVE** Assessment Area Property in EXHIBIT "B", the **\$ 8,502.34** assessment may be paid, interest free, at the office of the District on or before May 1, 2024.

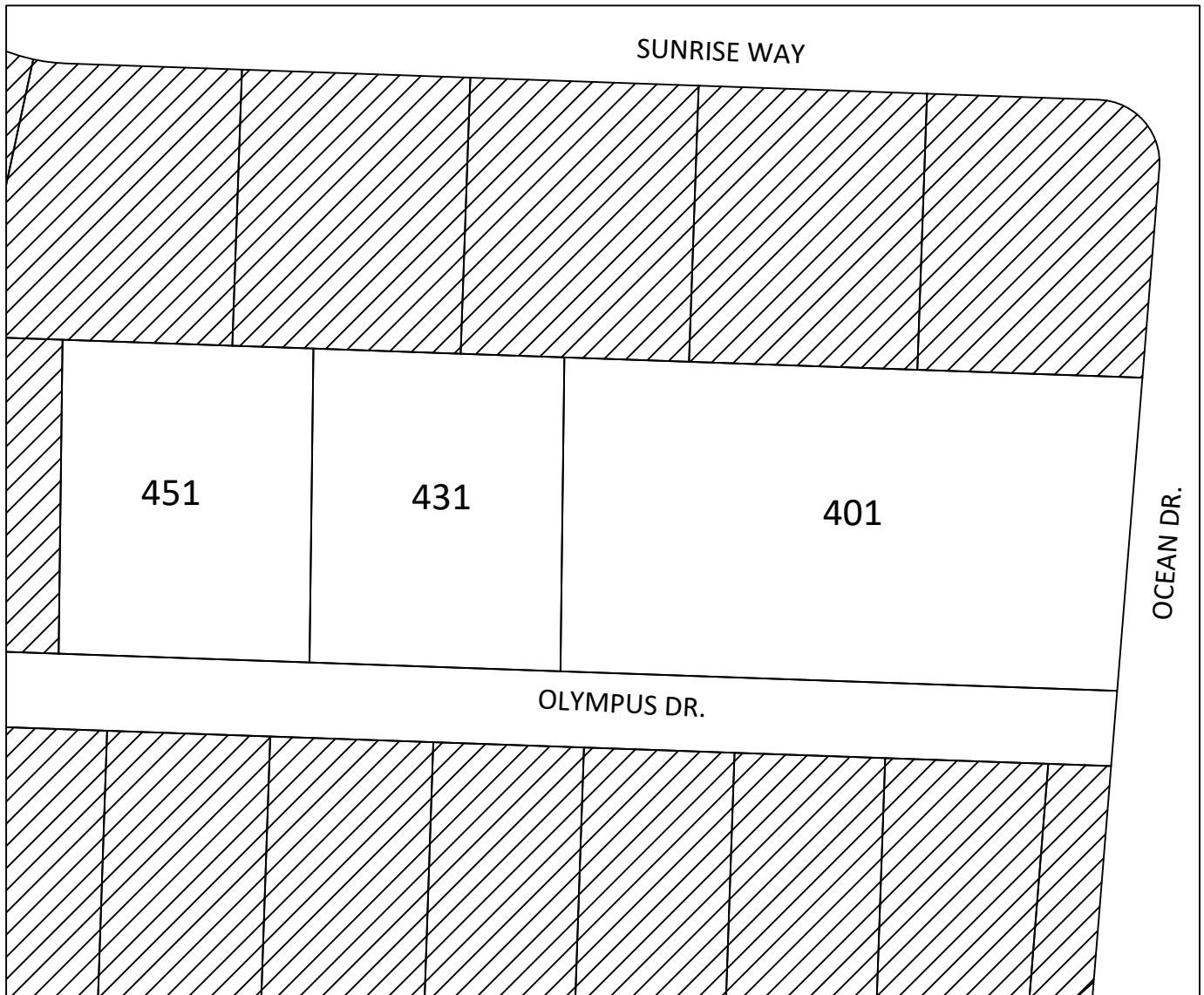
Owners who do not pay the \$ 8,502.34 assessment on or before May 1, 2024 shall have the \$ 8,502.34 principal added to the tax roll as a non-ad valorem assessment to accrue interest, beginning October 1, 2023, at eight percent (8%) per annum, to be collected in twenty (20) equal annual installments of \$ 865.98, commencing with the November 1, 2023 Real Estate Tax Bill.

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

By: _____
D. Albrey Arrington, District Clerk, Executive Director

EXHIBIT "B"

OLYMPUS DRIVE LOW PRESSURE SEWER SYSTEM ASSESSMENT AREA



LEGEND



NOT IN ASSESSMENT AREA

JUNO BEACH, FLORIDA

6-23-20

OLYMPUS LPSS EXH-A

Ms. Maria Bedoya
re: 431 Olympus Dr
431 Olympus Dr
Juno Bch FL 33408
28-43-41-28-01-000-0322

Ms. B Ginsburg/S Allen
re: 451 Olympus Dr
451 Olympus Dr
Juno Bch FL 33408
28-43-41-28-01-000-0323

Mr. & Mrs. Edgar Abovich
re: 401 Olympus Dr
878 Lakeside Dr
N Palm Bch FL 33408
28-43-41-28-01-000-0324



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: D. Albrey Arrington, Ph.D., Executive Director
FROM: Kris Dean, P.E., Deputy Executive Director/Director of Engineering Services
DATE: January 12, 2023
SUBJECT: Chlorine Disinfection System Study – Professional Engineering Services Contract

The District currently uses gaseous chlorine for disinfection of treated effluent to meet irrigation quality (IQ) water standards. The District has engaged Holtz Consulting Engineers to develop a scope for a study to evaluate the benefits, drawbacks, limitations and cost impacts of converting from gaseous chlorine to liquid sodium hypochlorite as the primary disinfectant at the District's WWTP.

Attached you will find a work authorization for professional engineering services to include:

- Perform a quantitative and qualitative comparison of the current operation of the gaseous chlorine system, to the conversion and operation of a bulk liquid NaOCl disinfection system.
- Estimate recurring operation and maintenance (O&M), chemical, and electrical costs for each alternative
- Perform a 20-year net present value (NPV) life cycle cost analysis comparing the costs of continuing to operate the gaseous chlorine system, vs. constructing and operating a bulk liquid NaOCl system.
- Perform a qualitative narrative and risk probability of the benefits, drawbacks, and limitations for each alternative
- Estimate and compare greenhouse gas (GHG) emissions associated with operation of gaseous chlorine vs. bulk liquid NaOCl disinfection system

Staff recommend the following motion:

“THAT THE DISTRICT GOVERNING BOARD authorize work authorization 2022-10 with Holtz Consulting Engineers in the amount of \$66,480.00.”

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

**AGREEMENT BETWEEN
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT AND
HOLTZ CONSULTING ENGINEERS, INC.
FOR PROFESSIONAL ENGINEERING SERVICES**

Bulk Sodium Hypochlorite Conversion Study

WORK AUTHORIZATION: 2022-10

BACKGROUND

This Agreement is for the performance of engineering services by Holtz Consulting Engineers, Inc. (HCE) pursuant to the Continuing Contract for Professional Engineering Services between Loxahatchee River District (District) and HCE dated October 16, 2020, hereafter referred to as the Contract. HCE shall partner with designated subconsultant Hazen and Sawyer (Hazen) to complete the work herein.

The District performs high level disinfection of secondary effluent at their Wastewater Treatment Facility (WWTF) to produce reuse water meeting strict health standards in accordance with the Florida Department of Environmental Protection (FDEP) permit requirements. Currently, the WWTF disinfects secondary effluent by dosing gaseous chlorine to secondary effluent, prior to discharge to the reuse distribution system. The chlorine building houses the gaseous chlorine cylinders and the mechanical equipment associated with the chlorination system. Gaseous chlorine is withdrawn under vacuum from the cylinders and injected into non-potable water to form a chlorine solution, which is then dosed primarily to the chlorine contact basins to disinfect reuse water. Chlorine is also periodically dosed at each of the four (4) secondary clarifier units to control the growth of filamentous organisms.

While gaseous chlorine has been successfully used by numerous utilities, including at the District without incident, the elemental liquid and gaseous forms of chlorine carry inherent risks if accidentally released into the atmosphere. For this reason the District is required to maintain a Risk Management Program (RMP) to address the accidental release of gaseous chlorine in accordance with United States Environmental Protection Agency (EPA) and State of Florida requirements. Also, the District is required to maintain and test an emergency chlorine vapor scrubber, which will activate to purge and neutralize a release equivalent to a 1-ton volume of chlorine gas from the interior of the building if a chlorine leak is detected by the gas monitoring system.

The District desires to evaluate the conversion to a bulk liquid sodium hypochlorite (NaOCl) disinfection system. Conversion to an NaOCl system will eliminate the need for the District to maintain a RMP and emergency scrubber system, lessening the administrative and labor burden and improving site safety by eliminating potential worker exposure to chlorine gas. This study will evaluate the benefits, drawbacks, limitations and cost impacts of converting from gaseous

chlorine to liquid NaOCl as the disinfectant at the District's WWTP. The study will include a detailed cost breakdown (capital and operating costs) to convert the disinfection system as well as a comparative 20-year life cycle cost analysis and qualitative analysis with the current gaseous chlorine system.

SCOPE OF WORK

The District has requested engineering services from HCE to complete the following objectives:

- Perform a quantitative and qualitative comparison of the current operation of the gaseous chlorine system, to the conversion and operation of a bulk liquid NaOCl disinfection system.
- Estimate recurring operation and maintenance (O&M), chemical, and electrical costs for each alternative
- Perform a 20-year net present value (NPV) life cycle cost analysis comparing the costs of continuing to operate the gaseous chlorine system, vs. constructing and operating a bulk liquid NaOCl system.
- Perform a qualitative narrative and risk probability of the benefits, drawbacks, and limitations for each alternative
- Estimate and compare greenhouse gas (GHG) emissions associated with operation of gaseous chlorine vs. bulk liquid NaOCl disinfection system

Specific tasks include:

- Task 1 – Kickoff meeting and data review
- Task 2 – Technical memorandum and final review meeting

TASK 1 – KICKOFF MEETING AND DATA REVIEW

HCE and its designated subconsultant Hazen shall prepare for and attend a meeting with District staff and visit the existing chlorination facilities, to review and discuss the scope of the proposed project and study, and to discuss any issues associated with maintenance of facility. Hazen shall also review background data and information provided by the District. This information will provide the initial understanding of the chlorination system characteristics.

The anticipated data to be provided by the District (limited to a 3-year timeframe) includes:

- Facility flow rate data including daily minimum, average and peak hour flow rates.
- Chlorine usage data: daily usage (ppd), dose (mg/L) if available, finished water total residual chlorine measurements and target (setpoint) total chlorine residual.
- List of additional chlorine dosing (injection) points if more than one and the purpose of each.

- Record drawings, preferably in electronic .pdf or .dwg file format. As a minimum, site civil plans including yard piping, chlorine facility structural plans, sections and details, chlorine system process/mechanical plans, sections and details, electrical power single line diagrams, site electrical plans, chlorine facility electrical power and control plan and chlorine system P&ID. CONSULTANT may request additional AutoCAD .dwg files for use as base files to show the conceptual layout of the selected chlorination systems on the site plan.
- Chlorine system SCADA monitoring screen(s) snapshot
- 1 year of FPL bills to determine the current cost of power (\$/kw-hr)
- Current labor requirements for operation and maintenance of gas chlorine systems
- Current chemical costs for gas chlorine
- Current maintenance costs
- Cost to maintain and administer gas chlorine RMP
- Copy of the gas chlorine RMP

TASK 2 –TECHNICAL MEMORANDUM AND FINAL REVIEW MEETING

HCE's subconsultant Hazen will prepare a Technical Memorandum (TM) detailing the quantitative and qualitative comparison of the current operation of the gaseous chlorine system, to the conversion and operation of a bulk liquid NaOCl disinfection system. It is assumed that all equipment will fit within the existing chlorine building, and double-walled NaOCl storage tanks will be used without additional secondary containment provisions. It is assumed that the existing chlorine piping in the yard will be reused for distribution of dilute NaOCl solution to dosing points, and that no new dosing points will be added. The TM will include the following:

- Calculations for required chlorine demand, chemical storage sizing, metering pump sizing, and pipeline sizing for bulk NaOCl alternative
- Summary of applicable regulations, code requirements and safety provisions required for the conversion to bulk NaOCl alternative
- Maintenance of plant operations considerations for maintaining chemical feed in service during construction of conversion to bulk NaOCl alternative
- The following drawing sketches for bulk NaOCl option are anticipated. No drawings will be provided for the existing system except for referencing existing drawings. Level of detail will be to a planning level, adequate for the purposes of demonstrating project intent and estimating construction cost for civil, mechanical, structural, electrical, and instrumentation improvements:

- Proposed Site Civil (showing any new yard piping if required, dosing locations, and fill station location) - Plan
- Existing Chlorine Building Demolition – Plan
- Proposed Chlorine Building – Plan
- Existing Electrical One-Line Diagram – Demolition
- Proposed Electrical One-Line Diagram
- Proposed Process and Instrumentation Diagram (P&ID)
- Engineers Opinion of Probable Construction Cost (OPCC) for construction of the bulk liquid NaOCl facility conversion. OPCC shall be a Class 3 level as defined by the Association of the Advancement of Cost Engineering (AACE) in Recommended Practices 18R-97.
- Estimated recurring operation and maintenance (O&M), chemical, and electrical costs for each alternative
- 20-year net present value (NPV) life cycle cost analysis comparing the costs of continuing to operate the gaseous chlorine system, vs. constructing and operating a bulk liquid NaOCl system.
- Qualitative comparison of the benefits, drawbacks, and limitations for each alternative
- Estimation and comparison of greenhouse gas (GHG) emissions associated with each alternative, using a previously developed operational greenhouse gas calculator
- Risk probability analysis comparison of impact on worker and community safety for each alternative

Hazen will submit a DRAFT TM for District review and comment. Following incorporation of the District review comments, Hazen will schedule a final review meeting. Hazen will provide a PowerPoint presentation at the final review meeting which explains key information summarized in the TM and to discuss District review comments. Comments from the final review meeting will be incorporated into the FINAL TM. Review meeting minutes will be prepared and distributed.

DELIVERABLES

TASK	DELIVERABLE	QUANTITY
Task 1 – Kickoff meeting and data review	Kickoff meeting minutes	Electronic delivery – Word document Electronic delivery – PDF
Task 2 –Technical memorandum and final review meeting	Draft memorandum Final memorandum Review meeting minutes	Electronic delivery – Word document Electronic delivery – PDF

TIME OF COMPLETION

HCE shall complete the project as outlined below in the project schedule.

- Task 1 – Kickoff meeting and data review
 - 30 days from Notice to Proceed (NTP)
- Task 2– Technical memo and final review meeting
 - 22 weeks from receipt of requested information from District

SCHEDULE OF FEES

Proposed labor costs for engineering services are tabulated below.

TASK	ENGINEERING FEE
Task 1 – Kickoff meeting and data review	\$10,930
Task 2 – Technical memo and final review meeting	\$45,550
TOTAL AMOUNT (LS)	\$66,480

ASSUMPTIONS

1. District will provide available information listed in Task 1 in an electronic format.
2. It is assumed that all equipment will fit within the existing chlorine building, and double-walled NaOCl storage tanks will be used without additional secondary containment provisions.
3. It is assumed that the existing chlorine piping in the yard will be used for distribution of diluted NaOCl solution to dosing points, and that no new dosing points will be added.
4. No structural drawings or evaluation will be performed on the existing building.
5. No drawings will be provided for the existing system except for referencing existing drawings.
6. Drawings will be provided to a planning level of detail, adequate for planning purposes and to complete the OPCC.
7. District will provide power monitoring of the chlorine building and ancillary equipment for 30 days to determine baseline power usage.

This Authorization is accepted, subject to the terms, conditions, and obligations of the aforementioned Contract.

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

By: _____
D. Albrey Arrington Ph.D., Executive Director

Date

HOLTZ CONSULTING ENGINEERS, INC.

By: _____
Christine Miranda, PE, Vice President

Date



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: D. Albrey Arrington, Ph.D., Executive Director
FROM: Kris Dean, P.E., Deputy Executive Director/Director of Engineering Services
DATE: January 12, 2023
SUBJECT: Authorize Piggy-Back Contract for Cleaning, TV Inspections

As part of the District's rehabilitation and replacement program we have implemented a lining program which installs a structural pipe liner within an existing gravity main or service lateral. This contract provides pre-lining cleaning and TV inspection to allow us to determine repair work needed ahead of the lining contracts as well as provide existing condition reports so we can accurately define the full scope of the lining projects.

We recommend that the District "piggy-back" on a contract awarded by the Tohopekaliga Water Authority (TOHO Water Authority) to Atlantic Pipe Services, LLC (IFB No. 20-133) to perform this work in accordance with their proposals dated January 6, 2023 (attached) and as summarized below.

Lift Station 011 Collection System	\$10,174.15
Lift Station 012 Collection System	\$23,500.10
Lift Station 014 Collection System	\$4,826.65
Lift Station 027 Collection System	\$51,332.10
<u>Lift Station 190 Collection System</u>	<u>\$2,950.80</u>
Total	\$92,783.80

Staff recommend the following motion:

"THAT THE DISTRICT GOVERNING BOARD authorize the "piggyback" of the TOHO Water Authority contract IFB 20-133 with Atlantic Pipe Services, LLC in accordance with their proposals dated January 6, 2023 in the amount of \$92,783.80"

and

"THAT THE DISTRICT GOVERNING BOARD authorize an additional contingency amount of \$10,000.00."

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



1420 Martin Luther King Jr Blvd
Sanford, FL 32771
(407) 792-1360
info@atlanticpipe.us

0123-0035

CUSTOMER: Loxahatchee River District	PHONE: (561) 723-8263	DATE: 1/6/23
STREET: 2500 Jupiter Park Drive	JOB NAME: LS 011 Gravity Main Cleaning and CCTV	
CITY/STATE/ZIP: Jupiter, FL 33458	JOB LOCATION: 701 Greenwood Dr, Jupiter, FL 33458	
ATTN: Kris Dean	E-MAIL: Kris.Dean@lrecd.org	

[illegible]

ANY UNFORESEEN OR ABNORMAL PIPELINE OR SITE CONDITIONS WILL BE SUBJECT TO RENEOGATIATION WITHOUT
PENALTY TO APS



1420 Martin Luther King Jr Blvd
Sanford, FL 32771
(407) 792-1360
info@atlanticpipe.us

We propose to hereby furnish the following :

All work to be performed per terms of TOHO Water Authority Contract IFB-20-133.

APS proposal includes all labor, material and workmanship to perform sanitary sewer cleaning and inspections at the above referenced project.

Quantities within the proposal are for estimating purposes only. Billing will be based on actual quantities performed in field and actual conditions in field.

Others to provide permitting.



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FLORIDA'S COMMERCIAL PIPELINE CLEANING, INSPECTION AND REHAB SPECIALIST

Heavy Cleaning Rates	Heavy Cleaning determined by percentage of debris in pipeline			
	12" Diameter	25.00%	3"	Debris
	15" Diameter	25.00%	4"	Debris
	18" Diameter	20.00%	4"	Debris
	24" Diameter	20.00%	5"	Debris
	30" Diameter	20.00%	6"	Debris
	36" Diameter	20.00%	7"	Debris
	42" Diameter	15.00%	6"	Debris
	48" Diameter	15.00%	7"	Debris
	54" Diameter	10.00%	5"	Debris
	60" Diameter	10.00%	6"	Debris
	In the event the required cleaning is beyond normal Heavy Cleaning, the cleaning will be performed under an hourly rate. Subject to prior client notification and approval.			

CUSTOMER RESPONSIBILITIES

- ☒ Local Dump-Site for safe disposal of debris / waste material removed from Project Location
- ☒ Local Metered Water Source
- ☒ Exposure of structures and access to all work areas without delay
- ☒ Stabilized Access to Work Areas - Two Wheel Drive Accessible
- ☐ Access to secure site for equipment storage
- ☒ Maintenance of Traffic - If Applicable

QUALIFICATIONS

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Weekend and Night Work may be subject to increase rates

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Payment terms are NET 30 days of invoice date. APS does not agree to "Pay when paid" terms

APS Proposals are valid for 30 days from date of submission.

ATLANTIC PIPE SERVICES, LLC			
PRINT NAME / TITLE	Brandon Duncan - MGR	DATE	1/6/23
SIGNATURE	Brandon Duncan	Digitally signed by Brandon Duncan Date: 2023.01.09 06:17:10 -05'00'	

*Acceptance of Proposal : The above prices, specifications and conditions are satisfactory and are hereby accepted.
You are authorized to perform the work specified. Payment will be made as outlined.*

CUSTOMER			
PRINT NAME / TITLE		DATE	
SIGNATURE			



1420 Martin Luther King Jr Blvd
Sanford, FL 32771
(407) 792-1360
info@atlanticpipe.us

0123-0036

CUSTOMER: Loxahatchee River District	PHONE: (561) 723-8263	DATE: 1/6/23
STREET: 2500 Jupiter Park Drive	JOB NAME: LS 012 Gravity Main Cleaning and CCTV	
CITY/STATE/ZIP: Jupiter, FL 33458	JOB LOCATION: 430 Center St, Jupiter, FL 33458	
ATTN: Kris Dean	E-MAIL: Kris.Dean@lrecd.org	

[illegible]

ANY UNFORESEEN OR ABNORMAL PIPELINE OR SITE CONDITIONS WILL BE SUBJECT TO RENEOGATIATION WITHOUT PENALTY TO APS



1420 Martin Luther King Jr Blvd
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We propose to hereby furnish the following :

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APS proposal includes all labor, material and workmanship to perform sanitary sewer cleaning and inspections at the above referenced project.

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Others to provide permitting.

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Heavy Cleaning Rates	Heavy Cleaning determined by percentage of debris in pipeline			
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- ☒ Maintenance of Traffic - If Applicable

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ATLANTIC PIPE SERVICES, LLC				
PRINT NAME / TITLE	Brandon Duncan - MGR		DATE	1/6/23
SIGNATURE	Brandon Duncan <div>Digitally signed by Brandon Duncan Date: 2023.01.09 06:18:13 -05'00'</div>			

*Acceptance of Proposal : The above prices, specifications and conditions are satisfactory and are hereby accepted.
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CUSTOMER			
PRINT NAME / TITLE		DATE	
SIGNATURE			



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info@atlanticpipe.us

0123-0037

CUSTOMER: Loxahatchee River District	PHONE: (561) 723-8263	DATE: 1/6/23
STREET: 2500 Jupiter Park Drive	JOB NAME: LS 014 Gravity Main Cleaning and CCTV	
CITY/STATE/ZIP: Jupiter, FL 33458	JOB LOCATION: 713 Warren Drive Jupiter FL	
ATTN: Kris Dean	E-MAIL: Kris.Dean@lrecd.org	

[illegible]

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Others to provide permitting.

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ATLANTIC PIPE SERVICES, LLC				
PRINT NAME / TITLE	Brandon Duncan - MGR		DATE	1/6/23
SIGNATURE	Brandon Duncan Digitally signed by Brandon Duncan Date: 2023.01.09 06:20:48 -05'00'			

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CUSTOMER			
PRINT NAME / TITLE		DATE	
SIGNATURE			



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0123-0038

CUSTOMER: Loxahatchee River District	PHONE: (561) 723-8263	DATE: 1/6/23
STREET: 2500 Jupiter Park Drive	JOB NAME: LS 027 Gravity Main Cleaning and CCTV	
CITY/STATE/ZIP: Jupiter, FL 33458	JOB LOCATION: 253 Juno ST, Jupiter, FL 33458	
ATTN: Kris Dean	E-MAIL: Kris.Dean@lrecd.org	

[illegible]

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PRINT NAME / TITLE	Brandon Duncan - MGR		DATE	1/6/23
SIGNATURE	Brandon Duncan <div>Digitally signed by Brandon Duncan Date: 2023.01.09 06:22:05 -05'00'</div>			

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SIGNATURE			



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Sanford, FL 32771
(407) 792-1360
info@atlanticpipe.us

0123-0034

CUSTOMER: Loxahatchee River District	PHONE: (561) 723-8263	DATE: 1/6/23
STREET: 2500 Jupiter Park Drive	JOB NAME: LS 190 Gravity Main Cleaning and CCTV	
CITY/STATE/ZIP: Jupiter, FL 33458	JOB LOCATION: 1254 Holly Cove Dr, Jupiter, FL 33458	
ATTN: Kris Dean	E-MAIL: Kris.Dean@lrecd.org	

[illegible]

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Others to provide permitting.

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ATLANTIC PIPE SERVICES, LLC				
PRINT NAME / TITLE	Brandon Duncan - MGR		DATE	1/6/23
SIGNATURE	Brandon Duncan Digitally signed by Brandon Duncan Date: 2023.01.09 06:14:48 -05'00'			

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CUSTOMER			
PRINT NAME / TITLE		DATE	
SIGNATURE			



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: D. Albrey Arrington, Ph.D., Executive Director
FROM: Kris Dean, P.E., Deputy Executive Director/Director of Engineering Services
DATE: January 12, 2023
SUBJECT: ITB 18-005-LSGENCONSTR/Lift Station Rehabilitation General
Construction Services: Contract Extension

This contract, originally awarded for 24 months in February 2019, provides unit prices to perform various aspects of lift station rehabilitations that can be selected a la carte to custom tailor a rehabilitation to a lift station's specific needs.

This contract has streamlined our lift station rehabilitation process by reducing time and effort previously expended bidding specific lift station rehabilitations each year and allowed us to address numerous deficiencies in our system.

The contract allows for three 12 month extensions beyond the initial 24 month term and allows for a CPI-U increase at each extension. This is the third and final extension. The most current CPI-U, All Items, Not Seasonally Adjusted was reported in November 2022 and is 7.1%.

Based on the success of this contract over the previous 48 months and satisfactory performance of the contractor staff recommends the following motion.

"THAT THE DISTRICT GOVERNING BOARD authorize the third of three 12 month extensions to ITB 18-005-LSGENCONSTR and authorize a unit price adjustment of 7.1%."

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



Chase Rogers
Hinterland Group Inc.
2051 W Blue Heron Blvd
Riviera Beach, FL 33404
561-640-3503
Crogers@hinterlandgroup.com

1/9/2023

ATTN: Kris Dean, P.E.
Deputy Executive Director/Director of Engineering
Loxahatchee River Environmental Control District
2500 Jupiter Park Drive
Jupiter, FL 33458
Kris.Dean@lrecd.org

RE: Hinterland Group Inc. – ITB 18-005-LSGENCONSTR: Lift Station Rehabilitation General Construction Services – Renewal Request #3

Hinterland Group Inc. hereby submits this letter as a request to extend the above mentioned contract for an additional 12 month period and to approve the 7.1% contract price escalator per the CPI-U for 2022. Please see attached the unit price schedule with current contract rates and the escalated pricing

Feel free to reach out should you need anything further.

Thank you

Chase Rogers

Chase Rogers
Hinterland Group Inc.

BID RESPONSE – ADDENDUM 1
ITB # 18-005-LSGENCONSTR

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT LIFT STATION REHABILITATION GENERAL CONSTRUCTION SERVICES

The contractor agrees to execute an Agreement in strict accordance with the Contract Documents and to provide services at the Unit Prices as included in the following Lift Station Rehabilitation General Construction Services Unit Price Bid Sheet as follows:

NO.	ITEM	QUANTITY	UNIT	Original Contract Unit Price	2021 Escalated Unit Price (1.2% Increase)	2022 Escalated Unit Price (6.8% Increase)	2022 Escalated Unit Price (7.1% Increase)	
1	Mobilization/Demobilization	10	LS	\$ 500.00	\$ 506.00	\$ 540.41	\$578.78	
2	Isolation Valve	4"	EA	\$ 1,800.00	\$ 1,821.60	\$ 1,945.47	\$2,083.60	
		6"	EA	\$ 2,100.00	\$ 2,125.20	\$ 2,269.71	\$2,430.86	
3	Temporary Bypass Connection Assembly	4"	EA	\$ 1,000.00	\$ 1,012.00	\$ 1,080.82	\$1,157.56	
		6"	EA	\$ 1,200.00	\$ 1,214.40	\$ 1,296.98	\$1,389.07	
4	Wellwell Concrete Lid and Hatch (hatch dimensions vary, not to exceed							
	6" Diameter Wellwell	1	EA	\$ 6,500.00	\$ 6,578.00	\$ 7,025.30	\$7,524.10	
	8" Diameter Wellwell	1	EA	\$ 7,500.00	\$ 7,590.00	\$ 8,106.12	\$8,681.65	
	10"Diameter Wellwell	1	EA	\$ 9,000.00	\$ 9,108.00	\$ 9,727.34	\$10,417.98	
5	Demolition of Wellwell Rectangular Chimney and Replacement with Cylindrical Wellwell Section (3' x up to 5' hatch with chimney not to exceed 6' in depth)							
	6" Diameter Wellwell	1	EA	\$ 12,800.00	\$ 12,953.60	\$ 13,834.44	\$14,816.69	
	8" Diameter Wellwell	1	EA	\$ 13,500.00	\$ 13,662.00	\$ 14,591.02	\$15,626.98	
	10" Diameter Wellwell	1	EA	\$ 15,000.00	\$ 15,180.00	\$ 16,212.24	\$17,363.31	
6	Valve Vault	5' x 5', not to exceed 5' depth	3	EA	\$ 8,500.00	\$ 8,602.00	\$ 9,186.94	\$9,839.21
		5' x 7', not to exceed 5' depth	2	EA	\$ 10,000.00	\$ 10,120.00	\$ 10,808.16	\$11,575.54
7	Valve Vault Piping Assemble	4" Diameter Piping	3	EA	\$ 12,000.00	\$ 12,144.00	\$ 12,969.79	\$13,890.65
		6" Diameter Piping	2	EA	\$ 13,000.00	\$ 13,156.00	\$ 14,050.61	\$15,048.20
8	Above Grade Piping Assembly	4" Diameter Piping	3	EA	\$ 13,000.00	\$ 13,156.00	\$ 14,050.61	\$15,048.20
		6" Diameter Piping	2	EA	\$ 14,000.00	\$ 14,168.00	\$ 15,131.42	\$16,205.75
9	Discharge Piping Assembly	Up to 10' x 4" Diameter Piping	4	EA	\$ 3,200.00	\$ 3,238.40	\$ 3,458.61	\$3,704.17
		Up to 10' x 6" Diameter Piping	1	EA	\$ 3,600.00	\$ 3,643.20	\$ 3,890.94	\$4,167.20
		Up to 15' x 4" Diameter Piping	4	EA	\$ 3,800.00	\$ 3,845.60	\$ 4,107.10	\$4,398.70
		Up to 15' x 6" Diameter Piping	1	EA	\$ 4,200.00	\$ 4,250.40	\$ 4,539.43	\$4,861.73
		Up to 20' x 4" Diameter Piping	1	EA	\$ 4,200.00	\$ 4,250.40	\$ 4,539.43	\$4,861.73
		Up to 20' x 6" Diameter Piping	1	EA	\$ 4,800.00	\$ 4,857.60	\$ 5,187.92	\$5,556.26
10	Angle Pipe Support	6" Diameter Wellwell	12	EA	\$ 800.00	\$ 809.60	\$ 864.65	\$926.04
		8" Diameter Wellwell	4	EA	\$ 1,200.00	\$ 1,214.40	\$ 1,296.98	\$1,389.07
		10" Diameter Wellwell	2	EA	\$ 1,800.00	\$ 1,821.60	\$ 1,945.47	\$2,083.60
11	Alternate Angle Pipe Support	4" Diameter Wellwell	4	EA	\$ 600.00	\$ 607.20	\$ 648.49	\$694.53
12	Leveling Floor	6" Diameter Wellwell	1	EA	\$ 2,280.00	\$ 2,307.36	\$ 2,464.26	\$2,639.22
		8" Diameter Wellwell	1	EA	\$ 2,380.00	\$ 2,408.56	\$ 2,572.34	\$2,754.98
		10" Diameter Wellwell	1	EA	\$ 2,480.00	\$ 2,509.76	\$ 2,680.42	\$2,870.73
13	Base Plates	4" Bases	8	EA	\$ 600.00	\$ 607.20	\$ 648.49	\$694.53
		6"-8" Bases	2	EA	\$ 750.00	\$ 759.00	\$ 810.61	\$868.16
14	Pump Bases	4"x4"	8	EA	\$ 1,600.00	\$ 1,619.20	\$ 1,729.31	\$1,852.09
		6"x6"	2	EA	\$ 2,000.00	\$ 2,024.00	\$ 2,161.63	\$2,315.11
15	Drop Bowl Assembly (less than 10' drop)	8"	5	EA	\$ 400.00	\$ 404.80	\$ 432.33	\$463.03
		10"	3	EA	\$ 600.00	\$ 607.20	\$ 648.49	\$694.53
16	Abandon Outside Drop (less than 10' drop)	8"	4	EA	\$ 650.00	\$ 657.80	\$ 702.53	\$752.41
		10"	4	EA	\$ 850.00	\$ 860.20	\$ 918.69	\$983.92
		12"	2	EA	\$ 900.00	\$ 910.80	\$ 972.73	\$1,041.79
17	Guidrails Removal and Installation (per pump)	2" up to 10'	2	EA	\$ 300.00	\$ 303.60	\$ 324.24	\$347.26
		2" up to 15'	6	EA	\$ 350.00	\$ 354.20	\$ 378.29	\$405.15
		2" up to 20'	2	EA	\$ 400.00	\$ 404.80	\$ 432.33	\$463.03
18	Guidrails	2" up to 10'	2	EA	\$ 1,500.00	\$ 1,518.00	\$ 1,621.22	\$1,736.33
		2" up to 15'	6	EA	\$ 2,000.00	\$ 2,024.00	\$ 2,161.63	\$2,315.11
		2" up to 20'	2	EA	\$ 3,000.00	\$ 3,036.00	\$ 3,242.45	\$3,472.66
19	Panel Rack	2	EA	\$ 8,500.00	\$ 8,602.00	\$ 9,186.94	\$9,839.21	
20	Panel Installation	2	EA	\$ 3,500.00	\$ 3,542.00	\$ 3,782.86	\$4,051.44	
21	Concrete Demolition (>0.5 CY/Site)	Slabs up to 8" thick	8	EA	\$ 250.00	\$ 253.00	\$ 270.20	\$289.38
		Structures up to 12" thick	2	EA	\$ 500.00	\$ 506.00	\$ 540.41	\$578.78
22	Concrete No Reinforcing (>0.5 CY/Site)	10	CY	\$ 300.00	\$ 303.60	\$ 324.24	\$347.26	
23	Concrete (6 x 6 - W1.4 x W1.4 Reinforcing) (>0.5CY/Site)	10	CY	\$ 320.00	\$ 323.84	\$ 345.86	\$370.42	
24	Concrete (8x @ 12" O.C.E.W., Top and Bottom) (>0.5 CY/Site)	10	CY	\$ 350.00	\$ 354.20	\$ 378.29	\$405.15	
25	Stabilized Grass Driveway Section (>20 SY/Site)	100	SY	\$ 35.00	\$ 35.42	\$ 37.83	\$40.52	
26	Grass Paver Driveway Section (> 20 SY/Site)	100	SY	\$ 55.00	\$ 55.66	\$ 59.44	\$63.66	
27	Adjust or Replace Manhole Frame and Cover	5	EA	\$ 900.00	\$ 910.80	\$ 972.73	\$1,041.79	
28	Ductile Iron Fittings	1,000	LBS	\$ 5.00	\$ 5.06	\$ 5.40	\$5.78	
28	Relocation of Radio Telemetry Unit	2	EA	\$ 3,500.00	\$ 3,542.00	\$ 3,782.86	\$4,051.44	
26	Sod	Bahia	100	SY	\$ 5.00	\$ 5.06	\$ 5.40	\$5.78
		Floradam	100	SY	\$ 8.00	\$ 8.10	\$ 8.65	\$9.26
28	Dewatering w/Wellpoints	First Day	1	EA	\$ 1,000.00	\$ 1,012.00	\$ 1,080.82	\$1,157.56
		Each Additional Day	1	EA	\$ 800.00	\$ 809.60	\$ 864.65	\$926.04
29	Maintenance of Traffic Thoroughfare Roads	First Day	1	EA	\$ 400.00	\$ 404.80	\$ 432.33	\$463.03
		Each Additional Day	1	EA	\$ 300.00	\$ 303.60	\$ 324.24	\$347.26
29	Maintenance of Traffic NON-Thoroughfare Roads	First Day	1	EA	\$ 300.00	\$ 303.60	\$ 324.24	\$347.26
		Each Additional Day	1	EA	\$ 200.00	\$ 202.40	\$ 216.16	\$231.51
30	Maintenance of Traffic - Flagger	1	EA	\$ 800.00	\$ 809.60	\$ 864.65	\$926.04	
31	Maintenance of Traffic - Sign Board	1	EA	\$ 150.00	\$ 151.80	\$ 162.12	\$173.63	
32	Line Stops	4"	1	EA	\$ 4,600.00	\$ 4,655.20	\$ 4,971.75	\$5,324.74
		6"	1	EA	\$ 5,500.00	\$ 5,566.00	\$ 5,944.49	\$6,366.55
		8"	1	EA	\$ 5,700.00	\$ 5,768.40	\$ 6,160.65	\$6,598.06
		10"	1	EA	\$ 6,500.00	\$ 6,578.00	\$ 7,025.30	\$7,524.10
33	Trench Safety Act	4	EA	\$ 100.00	\$ 101.20	\$ 108.08	\$115.75	
34	J-Box Under Panel	1	EA		\$ 5,875.00	\$ 6,274.50	\$6,719.99	



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

To: Governing Board
From: Kara Fraraccio, Director of Finance and Administration
Date: December 13, 2023
Subject: Disposal of Surplus Property

Whenever the District disposes of tangible personal property of a non-consumable nature, Florida Statutes and our Disposal of Surplus Tangible Personal Property Policy require Governing Board approval before any Surplus Tangible Personal Property can be disposed of. Therefore, consistent with state statute and our policies and procedures, I request your authorization to dispose of the items listed below:

Tag #	F/A #	Description	Condition	Date Recorded	Acquired Value	Book Value	Estimated Value
	OE0302	Eaton UPS System	Not Operational	09/30/15	\$ 12,428	\$ -	\$ -
2550		Kodak Digital Camera	Not Operational	09/30/08	352		
2621		Sony Alpha Digital Camera	Not Operational	09/30/10	300		
2791		GpPro Hero	Not Operational	09/30/14	299		
Total Assets to be Disposed					\$ 13,379	\$ -	\$ -

The items listed in the schedule above have no remaining value will be recycled or otherwise disposed of in an environmentally conscious manner.

If you have any questions, please feel free to contact me.

I offer the following motion for your approval:

"THAT THE GOVERNING BOARD authorize the Executive Director to dispose of tangible personal property asset number OE0302 and asset tag numbers 2550, 2621 and 2791 in accordance with the District's Disposal of Surplus Tangible Personal Property Policy."

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



Change Orders

No Change Orders are presented
for Board consideration this month.



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LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

To: Governing Board
From: D. Albrey Arrington, Ph.D., Executive Director
Date: January 10, 2023
Subject: Board Appointments and Liaisons

The attached chart shows liaison positions held by Governing Board members. Blue and yellow blocks designate external organizations with which the District interacts, while purple blocks represent internal departments and activities of the District.

I encourage a discussion among Board Members regarding the appointments and liaisons shown in the attached chart. Following your discussion and any potential revisions you may implement; I suggest you enact the following motion:

“THAT THE GOVERNING BOARD adopt the chart of Governing Board appointments and liaisons for the 2023 calendar year.”

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

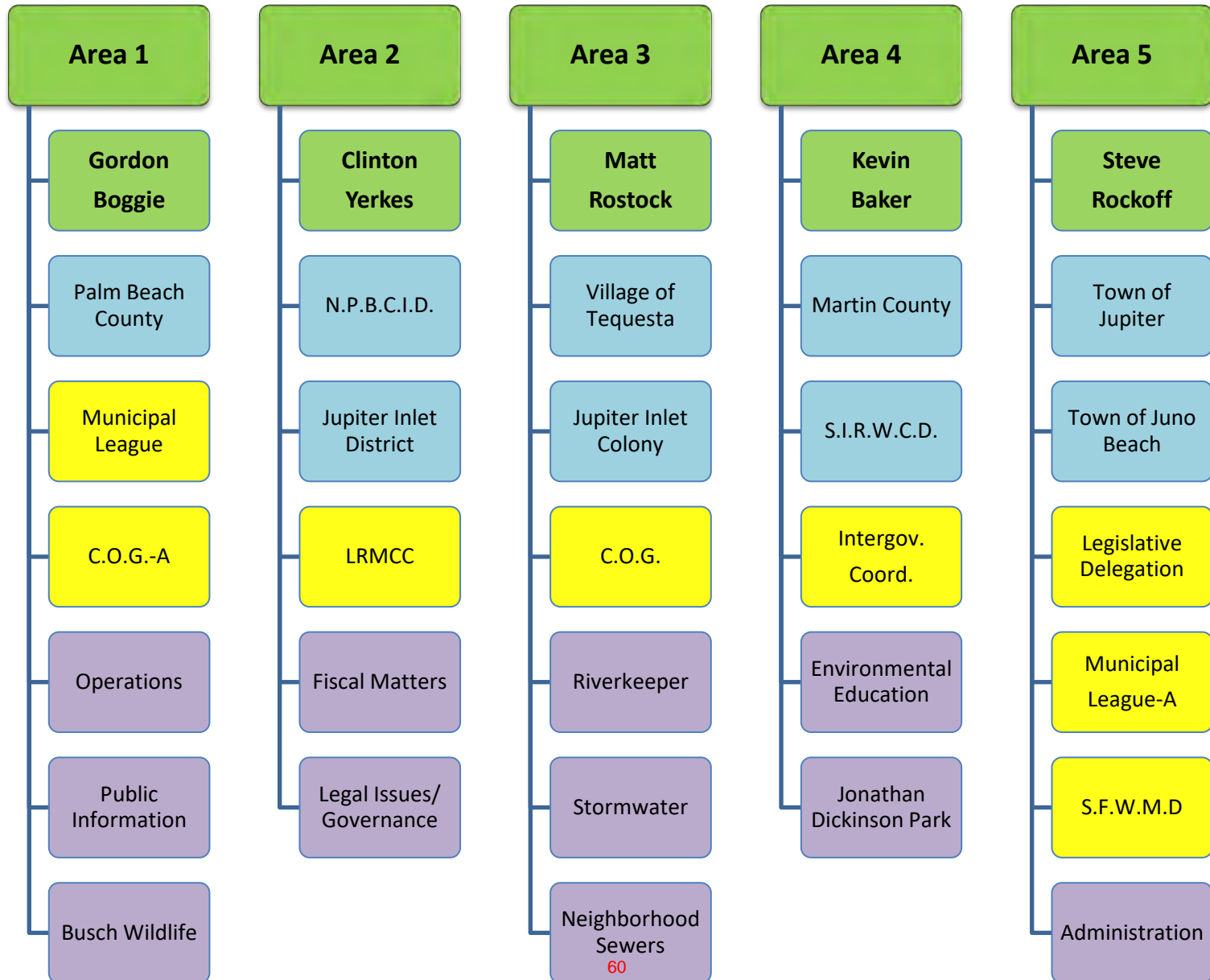
Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

GOVERNING BOARD

APPOINTMENTS & LIAISONS - 2023





LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: D. Albrey Arrington, Ph.D., Executive Director
FROM: Kris Dean, P.E., Deputy Executive Director/Director of Engineering Services
DATE: January 12, 2023
SUBJECT: ITB 22-009-00119/Science Center at Jupiter Inlet Lighthouse
Outstanding Natural Area – Recommendation of Award

On January 10, 2023 the District opened sealed bids for the subject project. The bids provided for demolition and reconstruction of facilities within two structures and associated site work at the Jupiter Inlet Lighthouse Outstanding Natural Area. Structure renovations include structural, mechanical, electrical, plumbing, and architectural features. Site improvements include parking, site furnishings, pathways, landscape and irrigation.

The engineers bid review and recommendation is forthcoming and will be provided for Board member review prior to the meeting. Bids as summarized in the bid tabulation sheet were:

All Site Construction	\$3,133,038.71
WayPoint Contracting	\$3,334,985.00
DiPompeo	\$3,397,000.00

The engineer's estimate for the base bid without additive or deductive alternates is \$1,320,013.31. The apparent low, found non-responsive due to failure to submit the original bid bond, is 237% higher and the second low is 253% higher.

Based on the large discrepancy between the engineer's estimate and submitted bids staff recommend the following motion:

"THAT THE DISTRICT GOVERNING BOARD reject all bids for ITB 22-009-00119."

To better understand the delta between the engineer's estimate and received bids and individual components of the bid resulting in the higher than anticipated bids, staff will pursue professional estimating services for the bid plans and specifications. This effort will aid in value engineering the project to align with staff and Board expectations.

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

Tabulation Sheet

Agency Name Loxahatchee River District

Bid Number ITB-ITB #22-009-00119-0-2023/SA

Bid Name Science Center at Jupiter Inlet Lighthouse Outstanding Natural Area

Bid Due Date 01/10/2023 14:00:00 Eastern

Bid Opening Closed

3 responses found. ✓ online,  offline, ● not submitting,  not received

Company		Responded	Address	Bid Amount	Alt Bid Amount	Declared Attributes	Documents	Sent
Complete								
1	All-site Construction	01/10/2023 13:59:23 Eastern	2915 E Tamarind Ave, West Palm Beach, FL, 33407	\$3133038.7100	0.0000		Response Document	✓
2	DiPompeo Construction Corporation	01/10/2023 13:30:58 Eastern	111 Orange Avenue, Suite #318, Fort Pierce, FL, 34950	\$3397000.0000	370000.0000		Response Document	✓
3	Waypoint Contracting Inc.	01/10/2023 13:33:45 Eastern	2470 NW 102 Place, Unit 203, Miami, FL, 33172	\$3334985.0000	0.0000	Hispanic Owned, Small Business, Woman Owned	Response Document	✓

500 S. Australian Ave., Suite 850
West Palm Beach, FL 33401
Office: +1 (561) 746-6900



January 18, 2023
Sent via email: kris.dean@lrecd.org

Loxahatchee River District
Kris Dean, P.E.
Deputy Executive Director &
Director of Engineering
2500 Jupiter Park Drive
Jupiter, FL 33458

Re: Science Center at Jupiter Inlet Lighthouse Outstanding Natural Area
Bid Review and Recommendation
LRD Project No. ITB #22-009-00119
CMA Project No. 494.001

Dear Mr. Dean,

Chen Moore and Associates (CMA) has conducted a review of the three (3) bids received on January 10, 2023 for the Science Center at Jupiter Inlet Lighthouse Outstanding Natural Area – ITB #22-009-00119. The bids were provided by All-Site Construction, Inc., DiPompeo Construction Corp., and Waypoint Contracting, Inc. The lowest bidder is All-Site Construction, Inc with a total submitted bid of \$2,506,430.97. The engineer's lump sum estimate was approximately \$1,320,013.31.

The bid schedule for all three (3) bidders was reviewed for accuracy. Errors were present in the All-Site Construction, Inc bid. Per the ITB Article 2, Item 11, discrepancies in the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. The resulting total bid for All-Site Construction, Inc is \$2,506,430.97. The other two (2) bids received did not have any errors. However, the bid provided by DiPompeo Construction Corp. omitted bid prices for items 9.2 – 9.6 and stated that the costs were included in Item 9.1. ***All-Site Construction, Inc., failed to provide a hard copy of the bid bond by January 12 at 2:00pm. Per Article I – Instructions to Bidders this results in the All-Site Construction Inc. bid to be deemed incomplete making Waypoint Contracting, Inc. the lowest bidder with a total submitted bid of \$3,334,985.00.***

The references submitted by Waypoint Contracting, Inc. were verified as part of the bidding services process. Five (5) references were contacted, and responses were received from two (2) references. The reference check included questions verifying type of work completed, contractor performance during the project, and experience with site development project for public entities. The feedback from references indicates that the contractor performed the work satisfactorily. One (1) of these references has work that was of similar scope to the subject project. The other reference cited a project that is similar to a very small part of the subject project.

The engineer's estimate was prepared utilizing data from RSMeans, which is an industry standard for cost estimating. However, considerable fluctuations in the market pricing for materials and labor may affect the project cost beyond the available source data. The lowest bid price of \$3,334,985.00 is 253% higher than the engineer's estimate.

In conclusion, Waypoint Contracting, Inc. was identified as the lowest bidder, has references that indicated satisfactory work, and provided required documentation, however CMA believes the bidder's price to be out of

500 S. Australian Ave., Suite 850
West Palm Beach, FL 33401
Office: +1 (561) 746-6900



line with the current understanding of the scope of work and the market conditions and recommends rejection of the bids.

Respectfully Submitted,



CHEN MOORE AND ASSOCIATES
Suzanne Dombrowski, P.E.
Principal Engineer / Palm Beach Office Leader

Loxahatchee River District
ITB # 22-009-00119
Science Center at Jupiter Inlet Lighthouse Outstanding Area
Contractor Reference Check

Contractor: Waypoint Contracting, Inc.

Reference #1:

James Bakerfield
City of Cape Coral
Cultural Park and Gator Circle
Contact: 239-707-1718

Contact Date: 01/13/23

1. Has the contractor worked with you?
 - a. Yes
2. In what role? (Reference was PM, Client, Owner, etc.)
 - a. Lead PM
3. What projects/type of projects? (Demo, utilities, etc.):
 - a. Two individual neighborhood parks valued at \$2M each. Cultural Park was a full reconstruction of the park with some retrofitting of existing parking lot, and parking lot expansion; construction of playground, pavilions, bathrooms and pathways. Gator Circle consisted of the construction of a new park in undeveloped property.
4. Was the project on time\on budget?
 - a. Yes.
5. Were there any change orders (Owner or Contractor driven)?
 - a. Yes, owner driven.
6. How would you rate them on a scale of 1 to 10, 10 being the best?
 - a. 8.
7. Would you use them again?
 - a. Yes.
8. Any claims?
 - a. No.
9. General Comments:
 - a. They are easy to work with from an office standpoint.

Loxahatchee River District
ITB # 22-009-00119
Science Center at Jupiter Inlet Lighthouse Outstanding Area
Contractor Reference Check

Contractor: Waypoint Contracting, Inc.

Reference #2:

Gerardo Diaz

Town of Davie

Sunny Lakes Community Center

Contact: 239-707-1718

Contact Date: 01/13/23

1. Has the contractor worked with you?
 - a. Yes
2. In what role? (Reference was PM, Client, Owner, etc.)
 - a. PM
3. What projects/type of projects? (Demo, utilities, etc.):
 - a. Town property with existing single-family home that was remodeled to be a museum/event venue and park.
4. Was the project on time\on budget?
 - a. There were permitting and design delays (from the owner side).
5. Were there any change orders (Owner or Contractor driven)?
 - a. Yes, owner driven.
6. How would you rate them on a scale of 1 to 10, 10 being the best?
 - a. 9.
7. Would you use them again?
 - a. Yes.
8. Any claims?
 - a. No.
9. General Comments:
 - a. Waypoint did a great job and was easy to work with during delays and change order process.



Neighborhood Sewering Schedule-Revised February 2020

Rank *	Area Description	# Lots	Activity	Original Target Date	Revised Target Start Date
11	Jupiter Farms (East)	708		TBD	TBD
11	PB Country Estates	1547		TBD	TBD

* Rank based upon "2010 Septic System Inventory & Assessment"
TBD = To be determined

Remnant Areas

Rank*	Area Description	Lots	Activity	Original Target Date	Revised Target Start Date
H	Olympus Dr, Juno (LP)	2	Notified Owners – June 2013 Prelim. Design started – August 2017 Notice of Intent to Assess – July 2020 Preliminary Assessment – Jan 2023	2016	2021
	605+607 Military Trl (LP)	2	Notified Owners – June 2020 Notice of Intent – Jan 2021	2022	
	18041 69 th Terrace	1	LRD procedures shared for connection to sewer services Statutory Way Provision – Jan 2022 Under Construction	N/A	2022
	5331 Center Street	1	LRD procedures shared for connection to sewer services Notice of Intent – March 2022 In Permitting	N/A	2022
	18150 SE Wooden Bridge Lane	1	LRD procedures shared for connection to sewer services Notice of Intent – May 2022 Constr. of Sewer Service Lateral – Dec 2022	N/A	2022
	Island Way Property	1	Notice of Intent – August 2022 Project in Design	N/A	2022

Rank *	Area Description	# Lots	Activity	Original Target Date	Revised Target Start Date
AA	Peninsular Road	4	Private Road Notice of Intent – February 2010 Partial construction complete - June 2013 Soliciting easements for remainder of project	2010	AEO
BB	Rivers Edge Road (Martin Co.)	35	Notified Owners – August 2010 Private Road-Easements Solicited –May 2014 Notice of Intent – February 2014 Project Delayed	2013	AEO
CC	171 st Street (Martin Co.)	7	Private Road - In House Design Owners notified October 2012 Easement rec'd from Church – April 2017 Grant received	2014	AEO
CC	Jamaica Dr	11	Private Road Owners notified Oct 2012 Statutory Way Provision (2) – June 2021	2014	AEO
D	Loggerhead Park <i>(institutional)</i>	6 ECs	Need Easements from County-No database	2014	AEO
DD	Taylor Road	38	Notified Owners – September 2011 Private Roads	2015	AEO
FF	Rolling Hills	50	Notified Owners – Jan. 2013 - Private HOA Notice of Intent to Assess – October 2019 Award of Contract – December 2021 Project Under Construction	2017	2021
FF	North A1A	3	Postponed-Town activities in area No database	2012	AEO
GG	815 S US 1 (Yum Yum Tree)	9 ecs	Notified Owner – November 2014	2016	AEO
GG	Rockinghorse <i>(north of Roebuck Road)</i>	11	Notified Owners – January 2013	2018	AEO
GG	Castle Rd SE	5	Notified Owners – Jan 2013-private road	2018	AEO
GG	Jupiter Rd SE	4	Notified Owners – Jan 2013-private road	2018	AEO
HH	Harbor Rd. S. LPSS	6	Notified Owners – January 2014-private road	2017	AEO
HH	Indian Hills SE	12	Notified Owners – January 2016 Easement for Road & Utilities, No Dedication	2019	AEO
16	Limestone Creek Road West	49	Notified Owners – January 2013-private road	2018	TBD
19	US Coast Guard Station Offices <i>(institutional)</i> PX Commercial <i>(commercial)</i>	2 ECs 2 ECs	US Government - private roads-No database Contract for installation of sanitary sewers – September 2020 Project Under Construction	2019	2021
	109+111 Old Jupiter Beach Road	2	Notified Owners – September 2021 Follow Up Reminder – July 2022 Constr. Plans Complete – Pending Owners		
	182 nd Road North	12	Sewering Pricing Request by 50% of Owners Design/Cost Est. In Progress		

CURTIS L. SHENKMAN
Board Certified
Real Estate Attorney
HUNTER SHENKMAN
Attorney

CURTIS SHENKMAN, P.A.
4400 PGA BLVD, SUITE 300
PALM BEACH GARDENS, FLORIDA 33410
TELEPHONE (561) 822-3939
Curtis@PalmBeachLawyer.Law

LEGAL ASSISTANTS
REAL ESTATE
JUDY D. MONTEIRO
DENISE B. PAOLUCCI

January 9, 2023

Loxahatchee River Environmental Control District
D. Albrey Arrington, Exec. Dir. and Board Members (sent by email to S. Patel)
2500 Jupiter Park Drive
Jupiter, FL 33458

RE: PENDING LITIGATION STATUS REPORT

Dear Dr. Arrington and Board Members:

We are enclosing herewith a brief status report relating to the litigation in which the Loxahatchee River Environmental Control District is involved with our law firm as the attorney of record, and/or monitoring the attorney of record. This status report updates the last monthly status report previously submitted and consists of a summary of the record proceedings which have occurred in each of the pending cases since last month.

ALL CASES HAVE NO CHANGE IN STATUS SINCE LAST REPORT.

There are no analyses of the pending cases included, as the inclusion of such items might constitute a waiver of any attorney/client privilege that exists between our firm and the District. Therefore, if you would like to discuss the particulars of any specific case in more detail or would like to obtain more information concerning the strategy, status, or settlement posture of any of the individual cases, please feel free to contact me.

As always, we are available at any time to discuss any of these lawsuits with each individual Board Member by telephone or by conference, if there are any questions.

Respectfully submitted,

CURTIS L. SHENKMAN

CURTIS L. SHENKMAN

Attachments

OTHER LITIGATION

IN THE CIRCUIT COURT OF THE FIFTEENTH JUDICIAL CIRCUIT, IN AND
FOR PALM BEACH COUNTY, FLORIDA
CASE NO. 50-2019 CA 014447 XXXX MB AB

FRED BEMAN, Plaintiff, vs.
LOXAHATCHEE RIVER DISTRICT,
Defendant.

December 6, 2017. Auto Accident involving District vehicle and vehicle driven by Fred Beman.

April 15, 2020. Summons & Complaint served upon the District.

April 20, 2020. Attorney Lyman Reynolds, appointed be District's Insurance Carrier to Defend the
District under the District's Insurance Policy.

May 4, 2020. District's Motion to Dismiss filed.

July 8, 2020. District's attorney reports Motion to Dismiss not yet set for a hearing.

August 19, 2020. Agreed Order permitting transfer of the case to Martin County Sept

16, 2020. Amended Complaint filed in Martin County

November 16, 2021, Notice of Lack of Prosecution filed in Palm Beach County.

Dec 2, 2021, Summons served on the District; Attorney Reynolds responded with Motion to Dismiss on
December 17, 2021.

January 14, 2022. District's Responses to Plaintiff's Request for Production and Interrogatories was filed.

January 31, 2022. District's Motion to Dismiss denied. District's Answer due by February 20, 2022, being
prepared by Attorney Reynolds.

February 20, 2022, District's Answer Filed.

April 22, 2022, Deposition of Plaintiff

June 21, 2022, Attorney Reynolds indicated projected trial date is December 18, 2023, and provided
confidential information to claims adjuster.

November 1, 2022 Attorney Reynolds office setting Pre Trial MEDIATION in January 2023.

Pre-Suit Notice of Claim under FS 768.28 (6)(a)

Dated August 3, 2020, from Attorney for Plaintiff

Donovan Mackey and Dee Mackey, Plaintiff

Vs. LOXAHATCHEE RIVER DISTRICT,

Defendant.

On or about October 2019 sewage back up into 141 Beacon Lane, Jupiter, FL 33469 (Jupiter
Inlet Colony). Plaintiffs claim personal injury from the sewage back up.

August 3, 2020, District notified District's insurance carrier of the claim.

August 18, 2020, Insurance Adjuster for the District assigned the claim.

As of July 11, 2022, No activity since Adjuster assigned the claim

Plaintiff cannot file suit until claim is denied. 768.28 (6)(b).

Statute of Limitations is running on the claim.

NO CHANGE IN STATUS SINCE JULY 2022 REPORT.

Pre-Suit Notice of Claim under FS 768.28(6)(a)

Universal Property & Casualty Insurance Company a/s/o

BettyCavanagh & Jules Formel, Plaintiff VS.

LOXAHATCHEE RIVER DISTRICT, Defendant.

On or about November 18, 2020, sewage back up into 18081 SE Country Club Drive, Apt 4-
33, Tequesta, FL 33469. The Owners, Betty Cavanagh & Jules Formel made claim to their
insurance company, University Property & Casualty Company.

On April 29, 2021, 2020, the Insurance Adjuster for University Property
& Casualty Company notified the District's Insurance Company, PGCS
Claims Services of the claim.

On July 13, 2021, University Property & Casualty Company (UPCC), as subrogee of Betty

Cavanagh & Jules Formel, notified the District in accordance with 768.28, the District has 6 months from receipt of the letter to investigate this claim and provide formal acceptance or denial. Plaintiffs claim property damage from the sewage back up in the amount of \$26,860. PGCS has been investigating.

On July 12, 2022, PGCS informed the District, that UPCC resubmitted new information as to the claim in the amount of \$28,860.00. PGCS is investigating the claim. Plaintiff cannot file suit until claim is denied. 768.28 (6)(b).

NO CHANGE IN STATUS SINCE JULY 2022 REPORT.

LIEN FORECLOSURES

NONE

MORTGAGE OR LIEN FORECLOSURES / LRD COUNTERCLAIMS/CROSSCLAIMS

NONE



Loxahatchee River Environmental Control District Monthly Status Report

December 31, 2022

Submitted To: Kris Dean, P.E, Deputy Executive Director/Director of Engineering

The following is a summary of work performed by Baxter and Woodman, Inc. (B&W), on District projects for the monthly period ending December 31, 2022.

Irrigation Quality 511 (IQ-511) Pump Station Piping Improvements

The following items were ongoing or completed during the last monthly period:

- A meeting was held onsite on November 18th with LRECD, Hinterland & B&W to discuss the project schedule and how to successfully complete the project. Hinterland is to submit an updated close out schedule.
- The remaining work includes start up, testing, I&C updates with CC Controls and replacement of the damaged fiber line.
- Start Up and walk through to be schedule for second week of January.

Lift Station Fall Protection Improvements

The following items were ongoing or completed during the last monthly period:

- A Maintenance Bond was received from the Contractor on December 19, 2022 completing transmittal of the Closeout Documents. B&W transmitted a Final Completion Certificate, a balancing Change Order, the Final Pay Application and all Closeout Documents to the District on December 20, 2022.

Structural Condition Assessment of Headworks, Diversion Structure A

The following items were ongoing or completed during the last monthly period:

- Safety railings installed.
- Condition assessment of headworks structure is scheduled for January 12, 2023.

Lift Station Control Panels & RTU Upgrades

The following items were ongoing to completed during the last monthly period:

- District calling in 811 tickets and providing locates on LS sites ahead of surveyor.
- Survey work began November 7th. Surveys received from DJLA for LS 11, 21, 24, 126, 153, 155, & 164
- Field visits by B&W and EDA completed December 12 and 14, 2023.



Respectfully Submitted by:

BAXTER & WOODMAN, INC.

A handwritten signature in black ink, appearing to read "Rebecca Travis".

Rebecca Travis, P.E.

Executive Vice President / Florida Division Manager



HOLTZ CONSULTING ENGINEERS, INC.
270 South Central Boulevard, Suite 207, Jupiter, FL 33458 (561) 575 2005

MEMORANDUM

To: Kris Dean, PE, Deputy Director/Director of Engineering, Loxahatchee River Environmental Control District
From: Christine Miranda, PE, Holtz Consulting Engineers, Inc.
Date: January 11, 2023
Subject: Loxahatchee River Environmental Control District Monthly Status Report

The following is a summary of work performed by Holtz Consulting Engineers, Inc. (HCE) on Loxahatchee River District projects through January 11, 2023. **Note: Any information that is historical or repeated from previous months are shown in italics. Otherwise, all information as shown below is newly reported information.**

Electrical System Condition Assessment, Short Circuit, Device Coordination and Arc Flash Study

- A kickoff meeting for the project was held on January 11, 2023. HCE's electrical subconsultant, Hillers Electrical Engineering, has commenced work on the project. An initial site visit with the District's safety officer will be scheduled in the near future. First items to be completed for the project include updating of the plant's one line diagram and the draft condition assessment analysis technical memorandum.

Schedule Update:

The updated one-line diagram will be completed and submitted to the District by March 10, 2023. The draft technical memorandum for the condition assessment analysis will be submitted to the District for review by May 19, 2023.

Greenhouse Gas Strategies Evaluation

- A kickoff meeting for the iron salts and flow equalization components of the project was held on November 18, 2022 with representatives from the District, HCE, and HCE's subconsultant Hazen present. The sampling plan was reviewed and agreed upon at the meeting. All field sampling has been completed. A kickoff meeting for the solar evaluation component of the project is scheduled for January 20, 2023.

Schedule Update:

All work is on schedule. The project is scheduled to be completed by June 9, 2023.



Lift Station No. 082 Improvements

- HCE has completed the revised drawings reflecting the relocation of the generator, new tie-in location for the discharge force main, and relocation of the conflicting water main. The water main relocation has been reviewed and approved by the Town of Jupiter. The revised drawings have been sent to the Contractor for use in preparing a change order for the project. The Town of Jupiter has also relayed that they are uncertain of the pipe material and size of the existing water main at the tie-in location, and we requested the Contractor provide us with a cost proposal to pothole the existing water main. HCE has prepared this change order and transmitted it to the District for consideration.

Schedule Update:

The Contractor is currently working on preparing the change order for the water main relocation, new tie-in location for the force main, and revisions to the generator drawings that include a retaining wall, concrete footer, and aluminum guardrail on the west and north side of the pad. This change order will include the time extension required to complete this work. The current contractual final completion date is April 13, 2023.

Country Club Drive Force Main Transmission System Preliminary Evaluation

- *The draft technical memorandum was submitted to the District on June 10, 2022 for review and comment. Upon receipt of the comments from the District, the memorandum will be finalized and transmitted to the District.*

Schedule Update: *Per the work authorization agreement, upon receipt of comments from the District on the draft memorandum, the final memorandum will be prepared and submitted within two weeks.*

Lift Station Telemetry Improvements

- Project documents have been migrated to Procore to better share information and submittal workflows. HCE has processed Change Order No. 1 - Replace model RV50 to model RV55 for FirstNet compatibility and Change Order No. 2 - Pilot modifications to existing lift stations. Depending on coordination with the District, the Contractor expects to mobilize to the first five (5) lift stations at the end of January or early February to begin modifications on the first five existing control panels. Results of the pilot will be used to better estimate work on remaining existing control panels. Several more submittals are in the process of review including an updated construction schedule. We are anticipating a new submittal soon detailing the proposed existing panel modifications and RTU installation type for each lift station.

Schedule Update: *The Notice to Proceed (NTP) has been issued for August 8, 2022. Substantial completion is 595 days from the NTP, March 25, 2024 and final completion is 660 days from the NTP, May 29, 2024. The most recent schedule provided from the Contractor currently shows them completing construction early, at the end of November 2023.*

Rolling Hills Gravity Sewer System, Lift Station, & Force Main

- HCE continues daily monitoring until District and FDEP approval is achieved. Throughout the month of December though not much visible progress has been completed, progress with a video inspection from District staff and initial punch list items have been accomplished. Additional District testing is scheduled for January including lamping. HCE will continue inspections as needed in keeping this project on schedule with completion of critical path items and District directive. Remaining work includes adjusting the height of the equipment rack and control panel, and final walkthrough and punch list items. As soon as the lift station start-up is complete the certification of completion and release to be placed into service will be submitted to the Florida Department of Environmental Protection.

Schedule Update: *Change Order #3 for the project added 105 calendar days to the Contract. The final completion date is February 8, 2023.*

Jupiter Inlet Lighthouse Septic to Sewer Conversion

- Throughout the month of December, HCE continued their onsite observation of ongoing construction efforts. Progress has been made in Health Department Water and Sewer release packages, final review and revisions to the record drawings, and installation of the slab and fencing for the main lift station. Additional milestones completed for December include videoing of all sewer laterals, mandrel deflection testing, and installation of a portion of sod and grassing.



continues with the installation of critical electrical components for the main lift station commercial duplex & simplex units, earth work for storm water drainage, and the anticipated release package from FPL needed to schedule utility power to be run underground. HCE has continued ongoing coordination of construction activities with the archaeologist, performing cultural resources monitoring throughout the duration of construction. The photo above depicts recent concrete work on the main lift station and since the photo has been taken, fencing has also been installed. In the photo to the left final grading and sod installation has been completed on this segment of the project.



Schedule Update: *Change Order #3 for the project has been submitted to the District for consideration, extending the Contract time by 99 calendar days due to delays caused by Town of Jupiter permitting. The revised final completion date is March 12, 2023.*



Deep Injection Well Replacement Cost Study

- The change of scope to perform additional District requested engineering services to incorporate a life cycle cost analysis and analysis of operation and maintenance costs has been approved by the District. HCE staff is currently working on finalizing the technical memorandum and addressing all comments received by the District and conducting the life cycle cost analysis and breakdown of operation and maintenance costs of the presented options. After all comments are addressed, and additional information inputted, the final memorandum will be completed and submitted to the District.

Schedule Update: The revised draft technical memorandum will be submitted to the District by February 14, 2023. The final technical memorandum will be submitted to the District three weeks after receipt of District comments on the draft technical memorandum.

Injection Well Pump Manual Transfer Switch Addition

- A meeting is scheduled for January 12, 2023 to do a final review of the equipment rack installation. Based upon what is agreed upon with the Contractor, electrical design engineer, and the District, the Contractor will finalize their change order for the changes to the equipment rack installation. The Contractor will also be providing signed and sealed wind load calculations with backup documentation for approval.

Schedule Update: The current final completion date of this project was December 31, 2022. The Contractor is currently preparing Change Order #2 for the changes for the equipment rack installation which will also accommodate for the additional time required to address this issue.

Master Lift Station No. 1 Traveling Bridge Crane Solicitation

- Prime Contractor Boromei and crane manufacturer MHS remain at the substantial completion portion of this project. Outstanding punch list items have been completed throughout the month of December including repairs to welds in concern on control cable brackets. On January 11, 2023, HCE and the Contractor had a meeting to discuss the outstanding issue of the repair of the painting of the crane and interior wall surfaces of the lower pump station to the District's approved standards and satisfaction. The Contractor has relayed that they intend to either self-perform or hire a professional painter to come and complete the work and will notify HCE of the plan and schedule no later than January 18, 2023.

Schedule Update: The final contract completion date was September 24, 2022. As of today, one remaining punch item still remains. HCE is diligently working with the Contractor to have them complete the remaining items as quickly as possible.

Emergency Response ESRI Collection Tool & Synovia Vehicle Tracking Assistance

- *No new activities have occurred for this work.*



**Loxahatchee River Environmental Control District
Master Plan 20-AC “Sierra Square” @ 9278 Indiantown Rd
LRECD PO# 21-0649 / KCI #482021095.01**

Progress Report

To: Mr. Kris Dean, P.E., Deputy Executive Director/Director of Engineering
From: Todd Mohler, RLA, KCI, Project Manager
Date: January 9, 2023

ACTIVITIES

KCI Technologies progress report updates for the current billing period are:

Activities and Support:

1. **Survey:** Complete.
2. **Environmental:** Complete.
3. **Geotechnical:** Complete.
4. **Electrical Engineering:** Comments on Task 3 deliverables received 12/27/22 including electrical comments. Discussed comments with client on 1/3/23. Will provide revised plans before 1/17/23.
5. **Civil Engineering:** Comments on Task 3 deliverables received 12/27/22 including civil comments. Discussed comments with client on 1/3/23. Will provide revised plans before 1/17/23.
6. **Landscape Architecture:** Comments on Task 3 deliverables received 12/27/22 including landscape architectural comments. Discussed comments with client on 1/3/23. Will provide revised plans before 1/17/23.
7. **Architecture:** Complete.



January 5, 2022

Mr. Kris Dean, P.E.
Deputy Executive Director/Director of Engineering
Loxahatchee River Environmental Control District
2500 Jupiter Park Drive
Jupiter, FL 33458

Ref. No. C0089.40
Subject: Loxahatchee River Subaqueous Forcemain Replacement
PO No. 22-0911

Dear Kris:

Below is our Monthly Update for December 2022.

- Progress Construction Drawing towards 90%
- Ongoing Coordination with Town of Jupiter Regarding the Potential of Obtaining an Easement for the proposed pipe alignment
- Ongoing Permit Coordination

Upcoming Activities:

- Permitting Drawings to be submitted in January 2023

If you have any questions, please contact me at 683-3113, extension 293.

Sincerely,
MOCK, ROOS & ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read 'Garry G. Gruber'.

Garry G. Gruber, P.E.
Senior Vice President

GGG:tsm
Copies: John Cairnes
Spencer Schroeder



Busch Wildlife Sanctuary At Loxahatchee River District Quarterly Dashboard -4th Quarter 2022



	Education				Animal Care			Financial Operations			Gift Shop	Volunteers	Safety
	General Public Visitors	Visitors Attending Public Programs	In-reach / Out-reach Program Attendance	Education Net Income	Injured Animals Received / Treated	Animals Released	Average Donation per Animal Admitted	General Donation Income	Grants/Major Donor Income	BWS Net Income	Net Income	Hours Logged	OSHA Recorded Incidents
Benchmark	# of People	# of People	# of People		#	%						#	#
Green	> 25,000	> 3500	> 5500	> \$20,000	< 500	≥30%	≥ \$15.00/Animal	> \$25,000	> \$100,000	≥ \$100,000	> \$10,000	> 2000	0
Yellow	> 20,000	> 2500	> 4000	≥ \$10,000	≥ 500	≥25%	< \$15.00/Animal	≥ \$15,000	≥ \$50,000	> \$0.00	> \$5,000	> 1500	1
Red	< 20,000	< 2500	< 4000	< \$10,000	>1000	<25%	< \$10.00/Animal	< \$15,000	< \$50,000	≤ \$0.00	< \$5,000	< 1500	>2
2021 Qtr Results													
1st Qtr													
2nd Qtr													
3rd Qtr													
4th Qtr													
2022 Qtr Results													
1st Qtr													
2nd Qtr													
3rd Qtr													
4th Qtr													

4th Quarter Onsite Items:

Projects Completed: Landscape clean up & re-mulching throughout Sanctuary

Projects In Progress: Remulching Pineland Nature Trail, restoring property and removing unused enclosures - Tiki Huts by Turtle Pond & Large Shed removed

Future Projects: None scheduled at this time

4th Quarter Appearances, Notables, Trainings:

Trainings: All Staff Trainings on Animal Escape and Hand and portable power tools

Onsite Educational Activities: In addition to daily programming we provided 38 Tours, 3 VIP Tours, 15 B-day parties, 3 Nightwalks, and 17 Junior Naturalist & Mini Jrs Sessions

Offsite Educational Activities: 23 presentations, 9 Exhibits, 3 Guided Trail Hikes

Other Community Events/Notables: participated in Jonathan Dickinson State Park's Firefest, hosted Tinkergarten 12 times at Sanctuary, held our Annual Wine in the Wild fundraising event held at Sanctuary, Christmas with the Critters at Jupiter Country Club

Licensing & Permits: All current

Rocky Pines Facilities Build Update: Site and buildings are on schedule for June 2023. Enclosures are being constructed simultaneously



Director's Report

- | | |
|-------------------------------|------------|
| ➤ Admin. & Fiscal Report | attach. #1 |
| ➤ Engineering Report | attach. #2 |
| ➤ Operations Report | attach. #3 |
| ➤ Information Services Report | attach. #4 |
| ➤ Environmental Education | attach. #5 |
| ➤ Safety Report | attach. #6 |
| ➤ Other Matters (as needed) | attach. #7 |





LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

To: Governing Board
From: Kara Fraraccio, Director of Finance and Administration
Date: January 13, 2023
Subject: Monthly Financial Report

Cash and Investments

Balance as of December 31, 2022
Certificates of Deposit:

Institution	Original Term	Maturity	Rate	Book Value	Monthly Interest Earned	Market Value
TD Bank	6 Months	02/04/23	3.06%	\$ 2,500,000	\$ 6,560	2,530,538
TD Bank	9 Months	05/05/23	3.22%	2,500,000	6,906	2,532,143
TD Bank	9 Months	05/08/23	3.35%	1,274,425	3,664	1,291,358
Bank United	9 Months	05/16/23	2.13%	1,003,248	1,824	1,011,282
TD Bank	12 Months	08/10/23	3.36%	2,000,000	5,767	2,026,652
Bank United	12 Months	08/16/23	2.42%	1,004,118	2,078	1,013,271
Bank United	12 Months	08/16/23	2.42%	1,004,118	2,078	1,013,271
US Century Bank	13 Months	09/22/23	2.71%	2,500,000	5,803	2,524,435
Bank United	12 Months	11/18/23	4.55%	1,060,577	5,749	1,066,262
Bank United	12 Months	11/22/23	4.59%	1,582,357	7,981	1,590,129
Subtotal				\$ 16,428,843	\$ 48,410	\$ 16,599,341
Investment Accounts:						
Synovus - Public Demand			2.00%		\$ 12,613	\$ 7,432,154
Bank United - Public Funds Reserve			3.93%		6,128	2,017,692
Florida Prime - SBA			4.30%		7,401	2,032,539
Subtotal					\$ 26,142	\$ 11,482,385
Checking Account:						
SunTrust-Hybrid Business Account			1.95%		\$ 19,417	\$ 11,027,641
Subtotal					\$ 19,417	\$ 11,027,641
Brokerage Accounts:						
					Gain/Loss	
Vanguard GNMA ADM			-14.94%	\$ 102,158	(13,277)	\$ 88,881
Vanguard Short-Term Treasury			-3.87%	1,841,093	(68,647)	1,772,446
U.S. Treasuries - Due 03/14/23			4.38%	498,712	2,174	500,886
U.S. Treasuries - Due 03/21/23			4.35%	498,805	1,626	500,431
U.S. Treasuries - Due 04/04/23			4.33%	513,717	657	514,374
U.S. Treasuries - Due 05/25/23			4.69%	1,231,427	6,059	1,237,486
U.S. Treasuries - Due 06/22/23			4.61%	146,718	66	146,784
Charles Schwab Bank Sweep					73	153,749
Subtotal				\$ 4,832,630	\$ (71,269)	\$ 4,915,037
Total					\$ 22,700	\$ 44,024,404

Average weighted rate of return on investments is: 2.51%

As of 12/31/22:

3 month Short Term Bond: 4.40%

1 month Federal Fund Rate: 4.33%

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

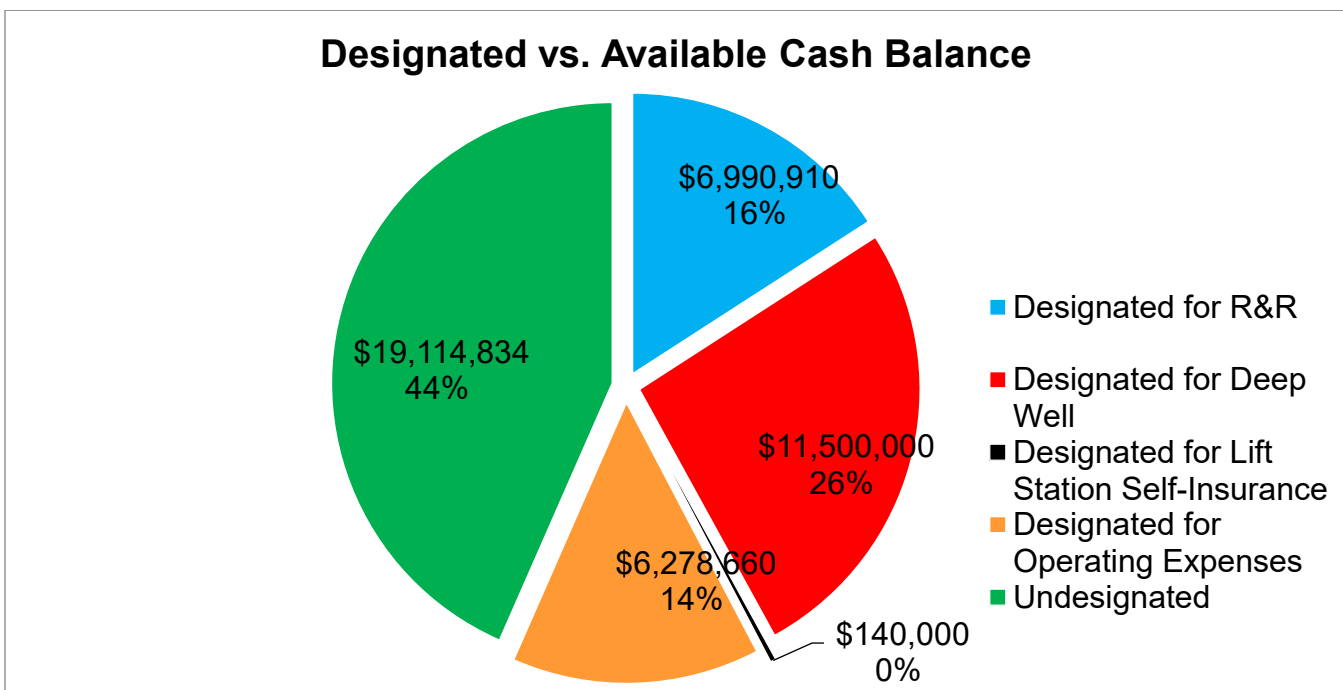
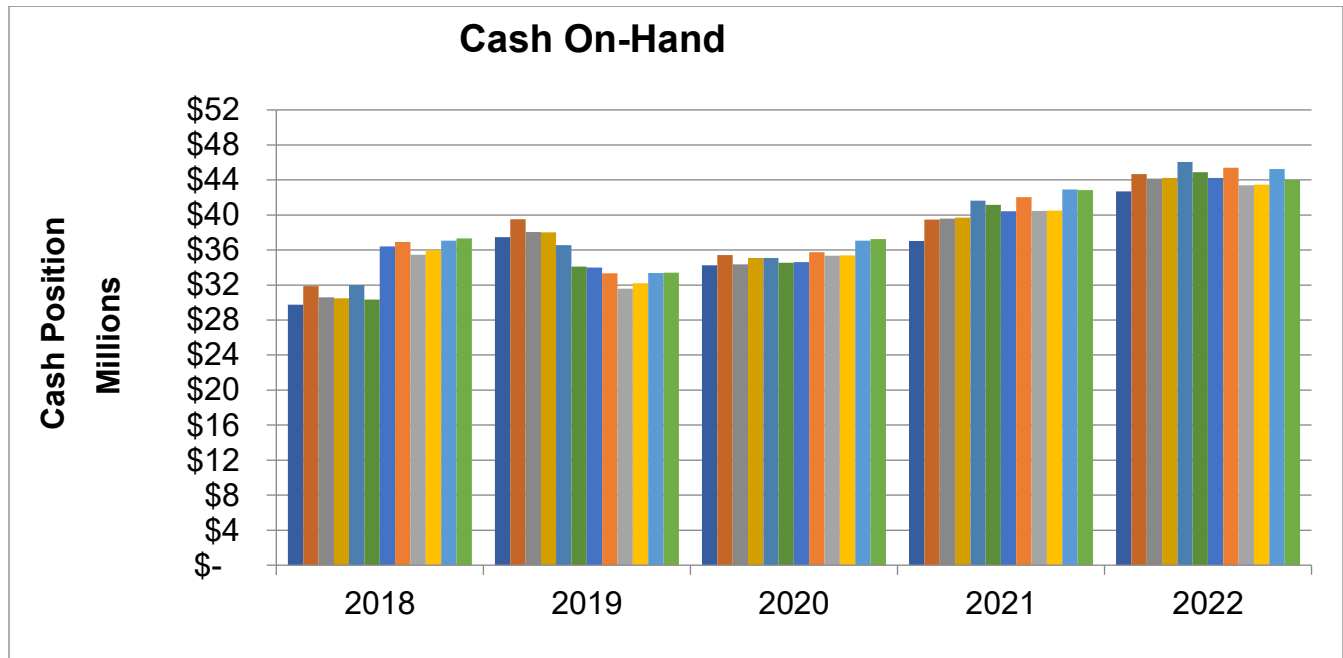
Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

The bond funds in the District brokerage accounts are still underperforming due to abnormal market conditions and uncertainties with the Federal Reserve. However, the District is optimistic that losses will be recovered and that we have an optimized portfolio based on risk and cash flow needs.

Cash position for December 2021 was \$42,827,478. Current Cash position is up by \$1,196,926.



Financial Information

- Legal Fees billed in December were \$200. The fiscal year-to-date total is \$18,475.
- Estoppel fees collected in December totaled \$5,070. The fiscal year-to-date total is \$14,580.
- There was no Septage billing for the month of December.
- Developer's Agreement – There were no new Developer Agreements.
- I.Q. Water Agreements – Abacoa Golf Course, Abacoa Plaza, and Fairways of Jupiter are past due for November and December; Cambridge is past due for December.

Summary of Budget vs. Actual

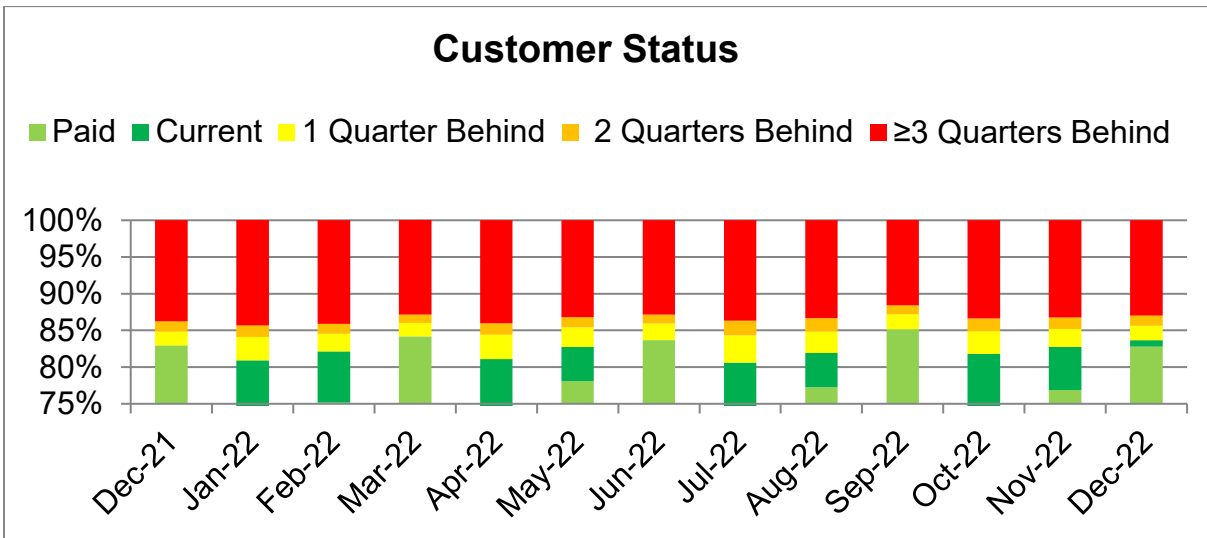
Budget Benchmark
25.00%

	Dec-22 Actual	YTD Actual	FY 23 Budget	Favorable (Unfavorable)	Budget Expended	Dec-21 YTD
Revenues						
Operating Revenues						
Regional Sewer Service	\$ 1,461,893	\$ 4,384,592	\$17,501,000	\$ (13,116,408)	25.05%	\$4,226,024
Standby Sewer Service	8,919	26,758	108,000	(81,242)	24.78%	29,849
IQ Water Charges	194,259	583,080	2,352,000	(1,768,920)	24.79%	572,217
Admin. and Engineering Fees	1,075	4,205	63,000	(58,795)	6.67%	16,792
Other Revenue	22,382	99,195	516,265	(417,070)	19.21%	80,039
Subtotal Operating Revenues	1,688,528	5,097,830	20,540,265	(15,442,435)	24.82%	4,924,921
Capital Revenues						
Assessments	\$ 584,522	\$ 964,249	1,411,000	(446,751)	68.34%	949,658
Line Charges	6,802	25,153	465,000	(439,847)	5.41%	79,883
Plant Charges	11,521	65,740	686,000	(620,260)	9.58%	245,493
Capital Contributions			140,000	(140,000)	0.00%	
Subtotal Capital Revenues	602,845	1,055,142	2,702,000	(1,646,858)	39.05%	1,275,034
Other Revenues						
Grants						
Interest Income	399,339	748,117	560,700	187,417	133.43%	506,576
Subtotal Other Revenues	399,339	748,117	560,700	187,417	133.43%	506,576
Total Revenues	\$ 2,690,712	\$ 6,901,089	\$ 23,802,965	\$ (16,901,876)	28.99%	\$ 6,706,531
Expenses						
Salaries and Wages	\$ 849,131	\$ 1,670,038	\$7,381,800	\$ 5,711,762	22.62%	\$1,498,668
Payroll Taxes	58,263	116,423	530,500	414,077	21.95%	104,786
Retirement Contributions	123,266	238,012	1,107,000	868,988	21.50%	202,826
Employee Health Insurance	120,975	371,052	1,542,500	1,171,448	24.06%	348,964
Workers Compensation Insurance		29,895	77,800	47,905	38.43%	28,502
General Insurance	1,489	227,885	423,520	195,635	53.81%	201,652
Supplies and Expenses	72,560	304,784	1,105,382	800,598	27.57%	266,170
Utilities	155,859	350,529	1,555,116	1,204,587	22.54%	297,173
Chemicals	44,827	119,142	634,000	514,858	18.79%	57,959
Repairs and Maintenance	59,584	395,687	1,940,780	1,545,093	20.39%	574,071
Outside Services	249,325	512,956	2,312,578	1,799,622	22.18%	567,515
Contingency			225,000	225,000	0.00%	
Subtotal Operating Expenses	1,735,279	4,336,403	18,835,976	14,499,573	23.02%	4,148,286
Capital						
Capital Improvements	\$ 960,662	\$ 1,452,676	12,741,414	11,288,738	11.40%	428,241
Subtotal Capital	960,662	1,452,676	12,741,414	11,288,738	11.40%	428,241
Total Expenses	\$ 2,695,941	\$ 5,789,079	\$ 31,577,390	\$ 25,788,311	18.33%	\$ 4,576,527
Excess Revenues						
Over (Under) Expenses	\$ (5,229)	\$ 1,112,010	\$ (7,774,425)	\$ 8,886,435		\$ 2,130,004

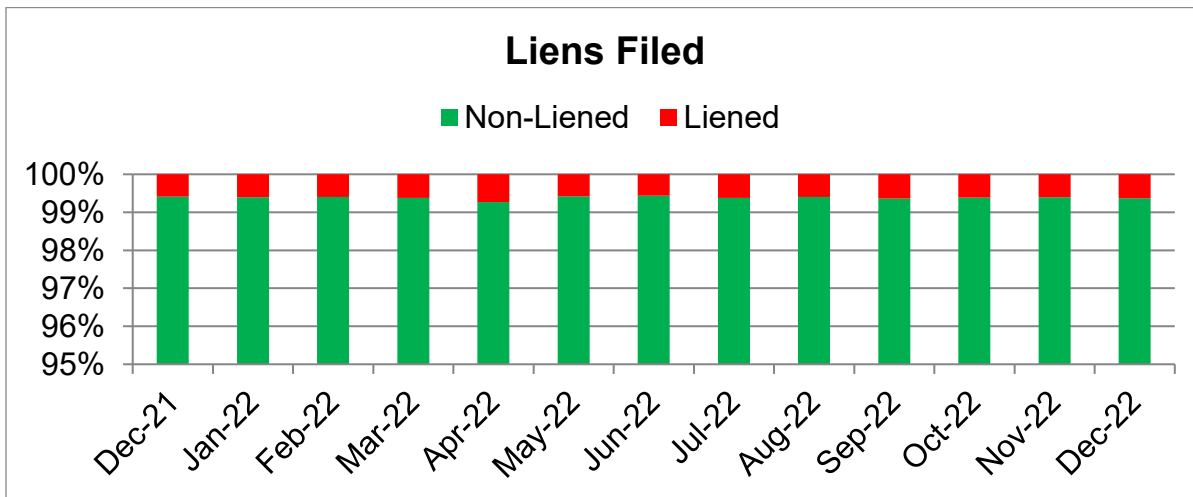
Total Capital expenses incurred and encumbered totalled \$14,782,965 or 116% of the capital budget. This includes funds encumbered in a prior fiscal year for projects that stretch across multiple fiscal years.

Accounts Receivable

The chart below illustrates customers' receivable status as a percentage of quarterly sewer billing. Paid or current balances represent approximately 84.0% billing.



The District serves approximately 33,247 customers. Currently, the District has 209 liens filed which represent approximately 1.0% of our customers.



Pending/Threatened Litigation

- Vehicle Accident – The District received a legal summons related to a vehicle accident involving a District vehicle. This claim is currently being handled through the District's General Liability Insurance provider, PRIA. PRIA has assigned the firm of Roberts, Reynolds, Bedard & Tuzzio, PLLC to represent the District.
- Beacon Lane – The District received a formal notice that a negligence claim is being made on behalf of a resident on Beacon Lane from injuries sustained as a result of septic and sewage over-flow at the property. We notified the District's legal counsel, the project engineers, the contractor, and the District's General Liability Insurance provider, PRIA.
- Turtle Creek Sub-system 2 & 3 – The District's contract legal counsel, Delaparte and Gilbert, has sent formal notice of latent defects to the Contractor. The Contractor has responded that they will mobilize in January 2023 to correct paving issues found by Martin County.



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

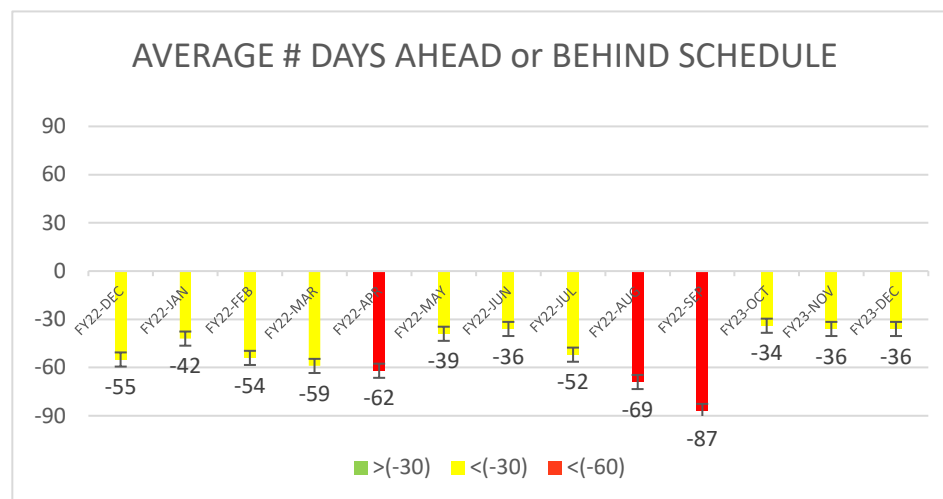
loxahatcheeriver.org

MEMORANDUM

TO: D. Albrey Arrington, Ph.D., Executive Director
FROM: Kris Dean, P.E., Deputy Executive Director/Director of Engineering Services
DATE: January 12, 2023
SUBJECT: Capital Program and Engineering Services Report

Capital Projects

Capital Schedule (FLOAT = -36 Days)



Notable delays to the Capital Program are listed below.

N21002 - Science Center at JILONA – The Recommendation of Award for this project is presented to the Board under Tab 6C. With conclusion of the bidding process this project schedule will reset. It is currently 12 months behind schedule and the single largest contributor to negative float.

N21004 – Master Lift Station Traveling Bridge Crane – The contractor is currently onsite resolving punchlist items that have lingered for over 6 months. See Holtz engineering consultant's report for more details.

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
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R19011 – Lift Station 082 Conversion – Staff are working with the consultant and contractor to complete the project prior to the end of this fiscal year. See Holtz engineering consultant’s report for additional details.

N20036 – Improve Operational Flexibility of our IQ System/IQ 511 Piping Modifications – This project reached substantial completion in January 2023. Staff, consultant and contractor are working to close out the project by the end of January 2023.

Replacement of 2 Portable Generators – Staff coordinated with vendors through December 2022 for pricing. An award of contract is included under Tab 5C.

Clarifier # 3 Rehabilitation – The clarifier rehabilitation was completed in December. The contractor is working through punchlist items. Staff anticipate completion in February 2023.

The overall negative (-) float is attributed to the following causes:

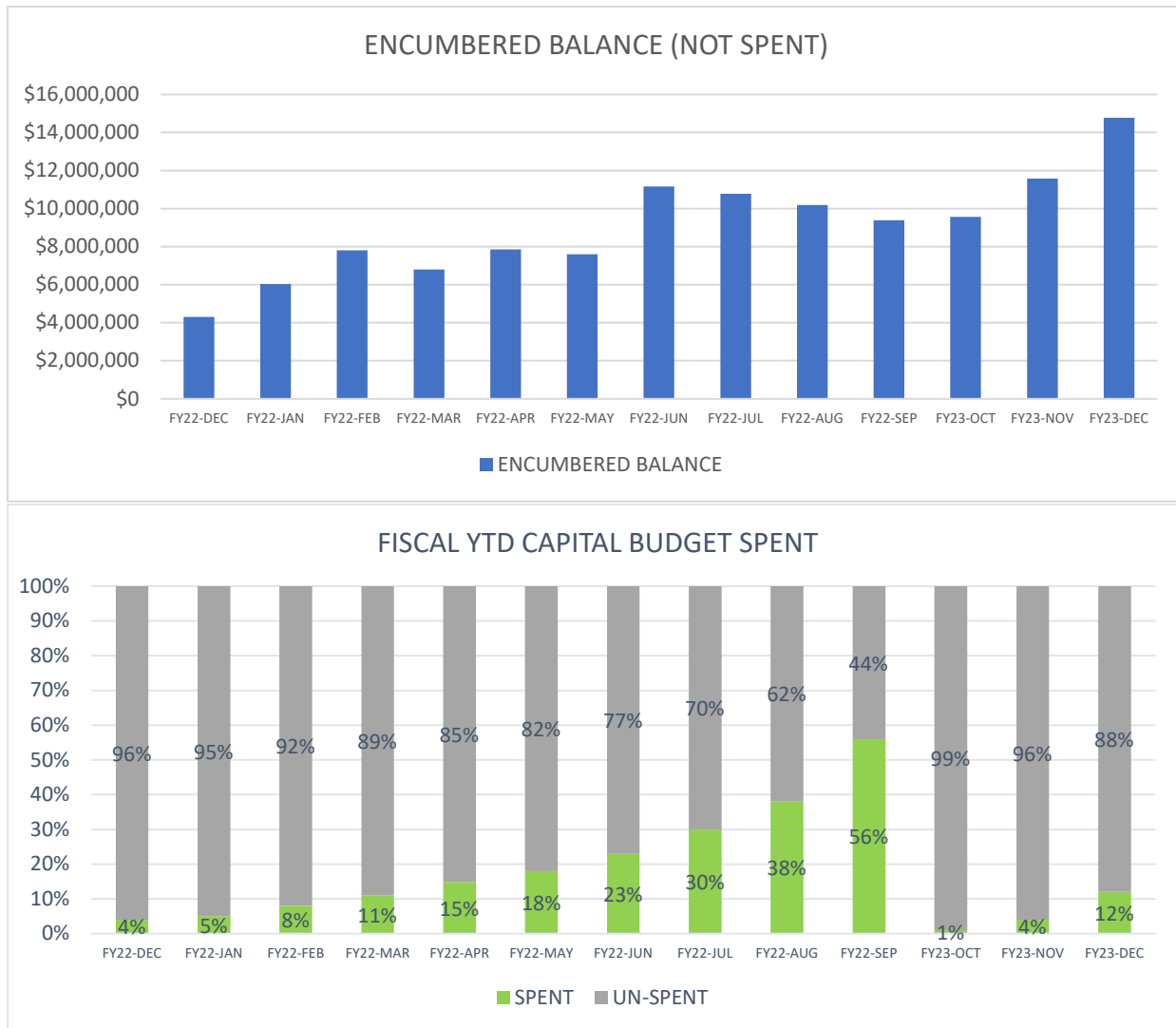
Construction Delays:	49%
Supply Chain Issues:	3%
Design/Permit/Bid:	31%
Late Start:	15%
Planning Contracts:	2%

Construction delays have the largest impact to the negative float (49% from 8 projects total). Staff are working with consultants and contractors to implement recovery schedules with project completions by the end of FY23.

Design/Permit/Bid also have a significant impact to the negative float (31% from 3 projects total). The Science Center, discussed earlier, will be removed from the capital program schedule. See Tab 6C. Two projects, both dealing with subaqueous river crossings, are currently impacting negative float. Staff are working with both consultants on recovery schedules.

Capital Budget

Encumbered Balance (unspent encumbered funds) increase over December with award of additional gravity system rehabilitation lining contracts, network equipment, low pressure stations, fleet vehicles and electrical system studies.



Project Updates

Science Center and Jupiter Inlet Lighthouse Outstanding Natural Area (aka: BLM House Renovations): See Tab 6C

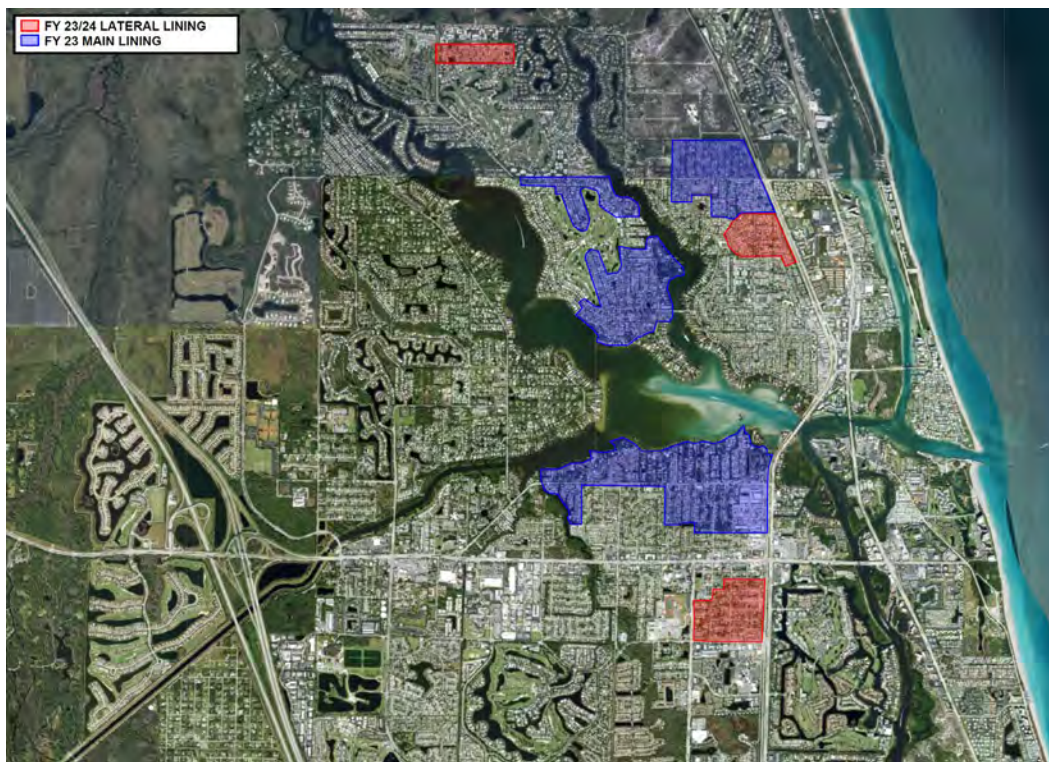
2500 Jupiter Park Drive Site Planning: Since the presentation to the Board in May of this year, staff and the consultant have continued to make progress on the massing study, architectural programming, potential treatment facility footprint and security review. Once these components are complete staff will provide revised site plans for Board discussion and consideration.

20 Acre Site Planning & Design: Since the presentation to the Board in June of this year, the consultant is proceeding with the conceptual master plan development including preliminary civil, electrical and schematic floor plans based on the presented site plan. This will be followed by completion of the Final Conceptual Master Plan, currently scheduled for the February 2023.



In-house Projects

Gravity System Rehabilitation – Cleaning, TV Inspection and Lining:



Main lining work is complete in LS018 and LS054. Punchlist items and coordination have delayed completion of LS041, now anticipated in February 2023.

The Board awarded lateral lining contracts for LS018, LS041 and LS054 in November 2022. A preconstruction meeting was held on January 11, 2023. This work is scheduled to commence in April 2023.

The Board also awarded main lining contracts for LS050 in November 2022 and LS070 and LS071 in December 2022. A preconstruction meeting was held on December 21, 2022 and work is scheduled to commence in January 2023.

This month staff are recommending award of a cleaning and TV inspection contract for LS011, LS012, LS014, LS027 and LS190 systems and anticipate a final main lining contract for these systems by March 2023.

Lift Station Rehabilitations General Construction Services:

Lift Station	Inspection	Design	Procurement	Construction
064	COMPLETE	COMPLETE	IN-PROCESS	-----
095	COMPLETE	IN-PROCESS	-----	-----
131	COMPLETE	COMPLETE	IN-PROCESS	-----
163	COMPLETE	COMPLETE	IN-PROCESS	-----
174	COMPLETE	COMPLETE	IN-PROCESS	-----
210	COMPLETE	COMPLETE	IN-PROCESS	-----
211	COMPLETE	COMPLETE	IN-PROCESS	-----
233	COMPLETE	COMPLETE	IN-PROCESS	-----
242	COMPLETE	COMPLETE	IN-PROCESS	-----
266	COMPLETE	COMPLETE	COMPLETE	IN-PROCESS

Neighborhood Sewering/Remnant Properties:

5331 Center St.: Design is complete for 5331 Center Street. Project is awaiting permit approval from Palm Beach County Roadway. This project includes a single service to be installed in easements coordinated by the property owner.

18041 and 18049 69th Terrace: The property owner at 18041 69th Terrace provided easements and requested staff install sewers to a proposed two-unit residential project. Design and permitting are complete. This project includes a double service to be installed in easements. Staff are coordinating with the contractor for a construction schedule.

18150 SE Wooden Bridge Lane: Design, permitting and construction of the low-pressure service lateral are complete for 18150 SE Wooden Bridge Lane. The project includes a single service to be installed in the right of way. Staff are coordinating with the contractor for final payment / project closeout.

109-111 Old Jupiter Beach Road: Design is complete for 109-111 Old Jupiter Beach Road. The project includes two services and low-pressure force main to be installed in existing roadway ingress/egress easement. Homeowners were provided information on 9/22/21 and 7/13/22, but no response has been provided. Project is on hold.

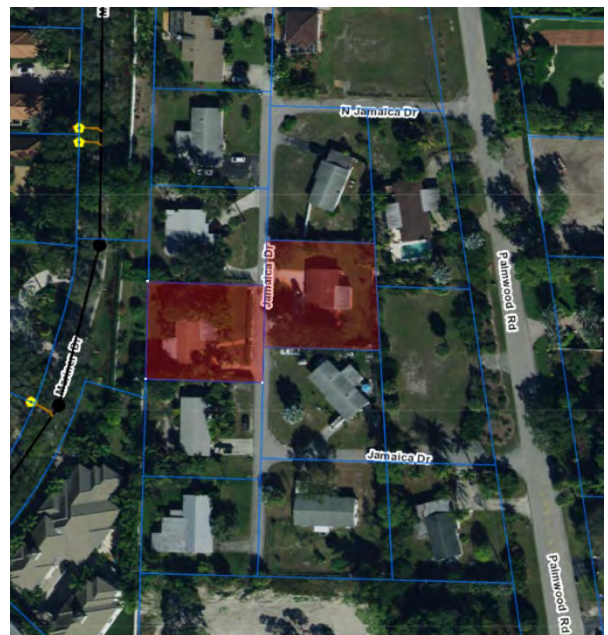
Island Way LPSS: Design is in process. The project includes two services and low-pressure force main to be installed in the right of way.

Other: Staff are working with IT and customer service to confirm remnant sewerage and update priority listing based on property access rights.

Statutory Way of Necessity:

Jamaica Drive Low Pressure Sewer: Over the last two years staff have been coordinating with two property owners for utility easements to install sewers to their properties on Jamaica Drive without success. At this time both property owners have determined Statutory Way of Necessity is the preferred option and entered into letter agreements for staff to proceed on their behalf.

Agreements are in place. Staff are coordinating with the contractor for final pricing.



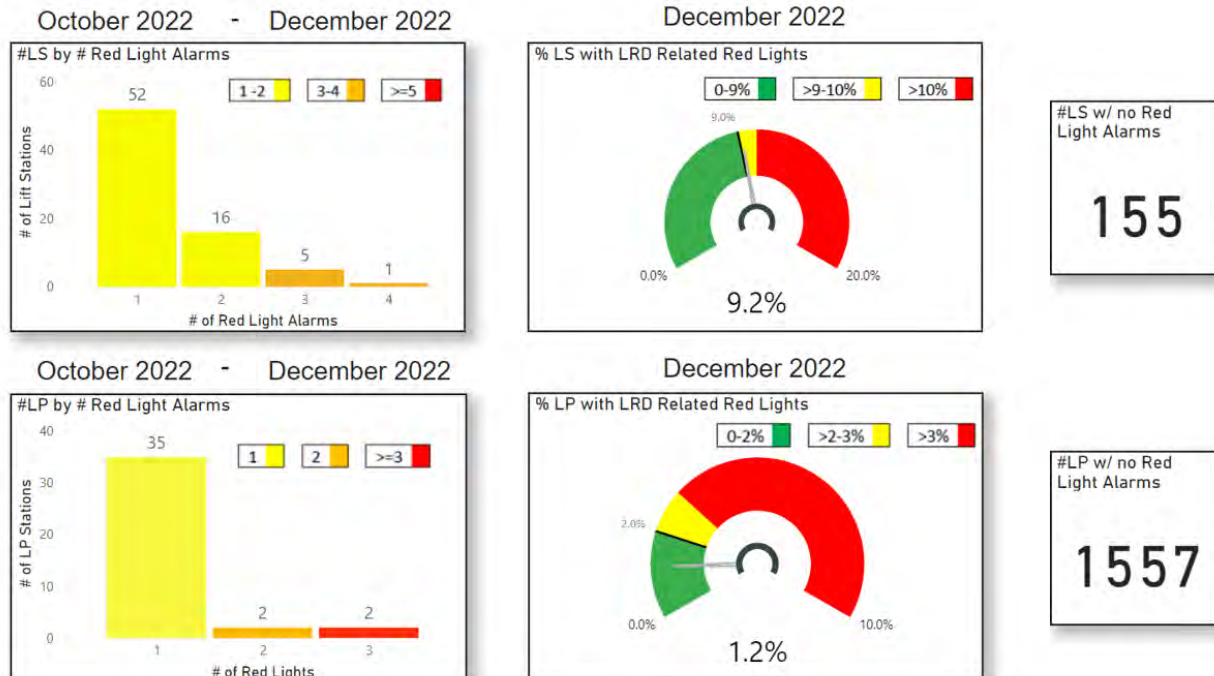
COLLECTIONS AND REUSE

Lift Station Red Lights: This month the system experienced 56 total red lights. 30 lift station red lights (with 5 stations experiencing multiple red light events) and 19 low pressure red lights (with 2 stations experiencing multiple red light events).

Work Order counts due to red lights exclude red lights due to FP&L power failure since staff have no mechanism to impact FP&L performance during inclement weather or other power outages. Staff continue to include FP&L power outages in the 3-month rolling average for repeat stations and work

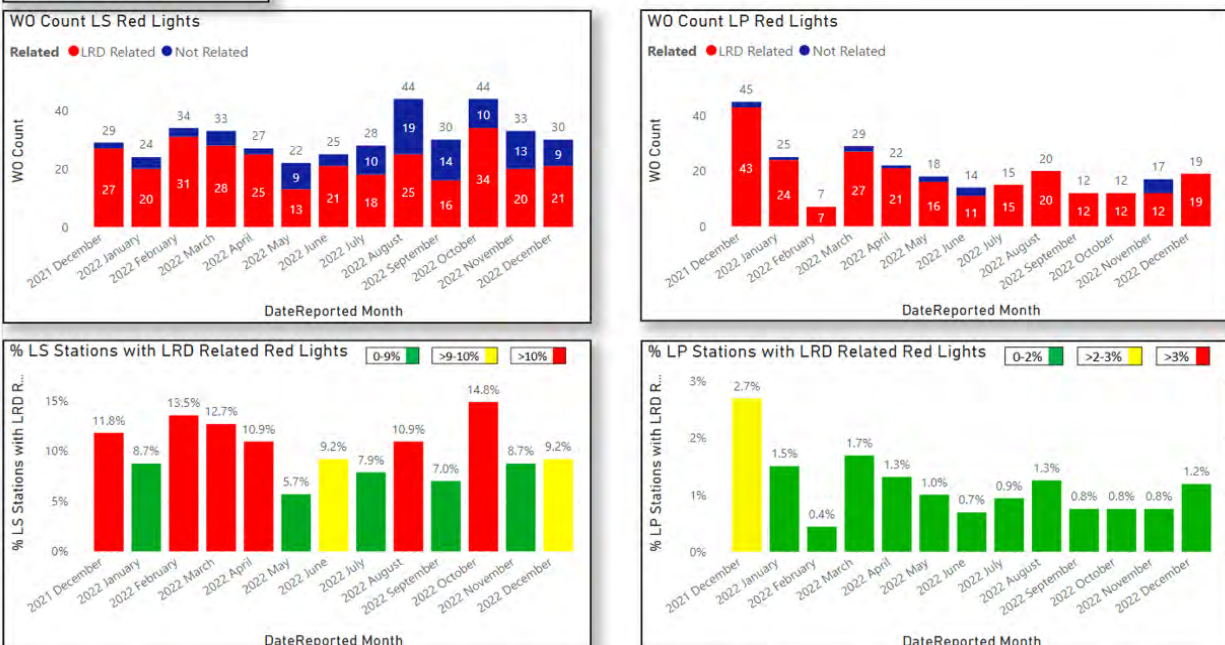
order counts to facilitate FPL coordination on problem areas and potential use of portable standby power to ensure continuity of service.

Emergency Call Work Orders Dashboard

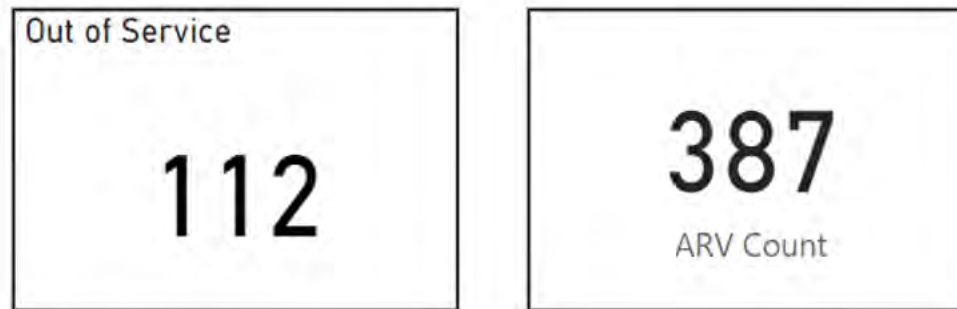


DateReported
Last 13 Months (Calendar)
12/1/2021 - 12/31/2022

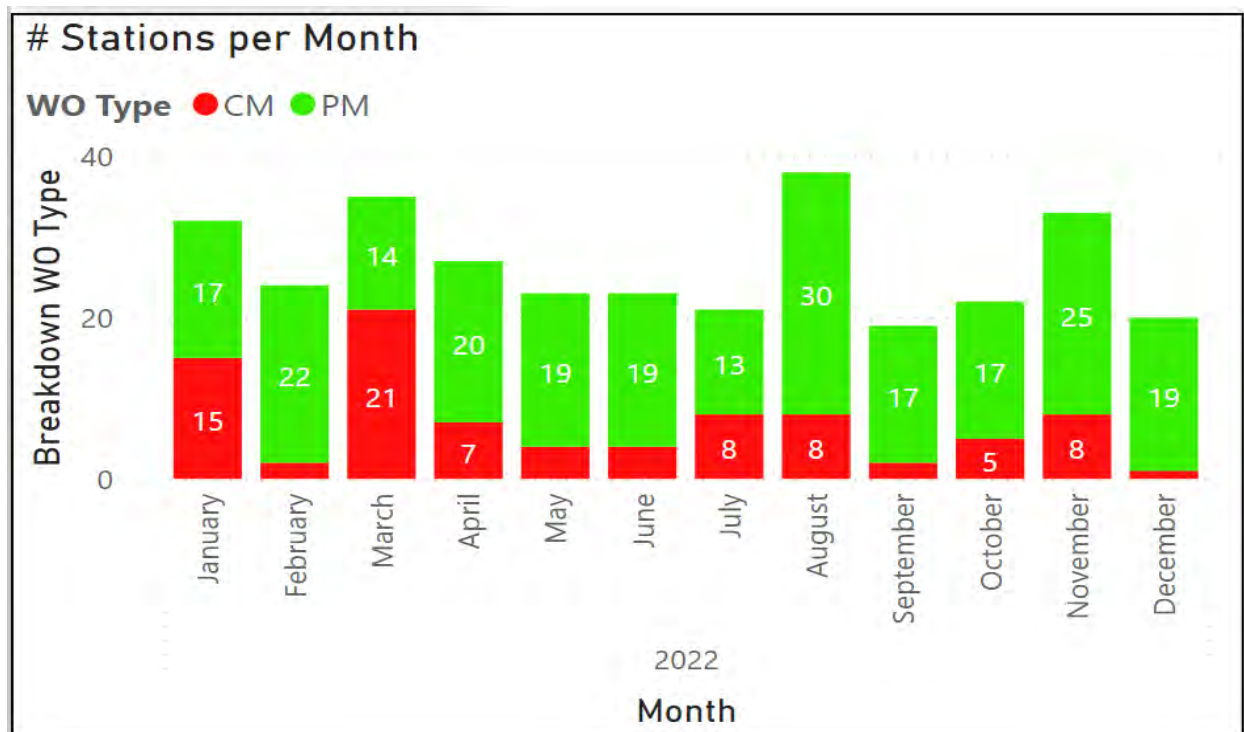
Emergency Call Work Orders Trend



Air Release Valves: The ARV evaluation process has identified 387 ARVs with 112 out of service. 49 of the out of service ARVs are planned for removal and 29 are scheduled for repairs. The remaining 34 ARVs are under evaluation.



Wet Well Cleaning: Unscheduled wetwell cleanings totaled 1 for the month.



UNAUTHORIZED DISCHARGES (fka SANITARY SEWER OVERFLOWS)

There were 7 unauthorized discharges in the collection-transmission-distribution system this month.

On December 2, 2022, the District had an unauthorized discharge of 4 gallons of sewage at a private residence low pressure system (LP0713) located on Bamboo Lane, Jupiter, FL. The unauthorized discharge was caused by a failed

PVC discharge pipe. The unauthorized discharge was stopped by disabling the private residence low-pressure system until repairs could be made. Four gallons of the unauthorized discharge were absorbed into the soil. The affected area was disinfected with lime. No known storm drains or bodies of water were affected.

On December 3, 2022, the District had an unauthorized discharge of 10 gallons of sewage at a private residence low pressure system (LPM015) located on Merritt Way, Jupiter, FL. The unauthorized discharge was caused by a failed PVC anti-syphon valve. The unauthorized discharge was stopped by isolating and disabling the private residence low-pressure system until repairs could be made. A portion of the unauthorized discharge was absorbed into the soil. The affected area was cleaned with 20 gallons of potable water and disinfected with lime. A District vacuum truck was utilized to recover the potable water and five gallons of the unauthorized discharge. No known storm drains or bodies of water were affected.

On December 15, 2022, the District had an unauthorized discharge of a total of 722 gallons of sewage in the Whispering Trails community (LS180) in Jupiter FL. The unauthorized discharge was caused by loss of power to the lift station. There were eight (8) specific manholes that the unauthorized discharge was released from. The unauthorized discharge was stopped by using District vacuum trucks to pull liquid from several manholes until power was restored to the station. The majority of the unauthorized discharge at each manhole was absorbed into the soil. Each affected area was disinfected with lime and potable water. A total of 500 gallons of potable water was used to wash down the areas. Signs were posted in the community during cleanup and removed when cleanup was complete. The unauthorized discharge did enter the storm water system. Samples were taken at the storm water discharge location into Loxahatchee River from Whispering Trails community on 12/15, 12/16, and 12/20/2022 on advisement from FDEP and FDOH. Additional samples were taken on 12/20/2022 in Whispering Trails community storm water collection ponds. A total of 35,300 gallons was back pumped out of storm water system and discharged in the District's collection system.

On December 20, 2022, the Loxahatchee River District (LRD) had an unauthorized discharge of 420 gallons of sewage on 8th Street, Jupiter FL. The unauthorized discharge was caused from a broken gravity system PVC cleanout pipe (LS018-CO003). The unauthorized discharge was stopped by using an LRD vacuum truck to clear blockage caused by damaged PVC pipe until repairs could be made. The unauthorized discharge liquid ran southward across 8th Street for about 25 feet to road brim on southside of street and then traveled 525 feet eastward along roadway where some of liquid was absorbed

into the soil. The affected area was disinfected with lime and washed down with potable water. 300 gallons of unauthorized discharge along with an additional 300 gallons of the wash down potable water were recovered by using a District vacuum truck. No known storm drains or bodies of water were affected.

On December 22, 2022, the District had an unauthorized discharge of 83 gallons of sewage on Yacht Harbor Drive North, Jupiter FL. The unauthorized discharge was caused by a broken PVC check valve (LP0435). The unauthorized discharge was stopped by shutting the system down until repairs could be made. The unauthorized discharge liquid ran southwesterly for 15 feet into the middle of the road, then traveled 35 feet southeastwardly along roadway where it then traveled an additional 10 feet southwesterly to the edge of road for an additional 40 feet where some of liquid was absorbed into the soil along edge of road. The affected area was disinfected with lime and washed down with potable water. 70 gallons of the unauthorized discharge along with an additional 100 gallons of the wash down potable water was recovered by using a District vacuum truck. No known storm drains or bodies of water were affected.

On December 26, 2022, the District had an unauthorized discharge of 728 gallons of sewage off US1 in Tequesta FL. The unauthorized discharge was caused by a broken 1.25 inch PVC discharge pipe from the wet well (LP0926). The unauthorized discharge was stopped by installing a bypass pump into the wet well until repairs could be made. Some of the unauthorized discharge liquid was absorbed into the soil in the area around the wet well. The affected area was disinfected with lime and washed down with potable water. 550 gallons of the unauthorized discharge along with an additional 100 gallons of the wash down potable water was recovered by using an LRD vacuum truck. No known storm drains or bodies of water were affected.

On December 27, 2022, the District had an unauthorized discharge of 1,515 gallons of sewage off US1 in Tequesta FL. The unauthorized discharge was caused by a failed 1.25 inch emergency tap discharge pipe (LP0926-LPSP) during repair. The unauthorized discharge was stopped by using a District vacuum truck to contain the liquid until the repair was made. Some of the unauthorized discharge was absorbed into the soil in the immediate area. The affected area was disinfected with lime and washed down with 300 gallons of potable water. 1,700 gallons of liquid was recovered by using a District vacuum truck including the wash down potable water and ground water. No known storm drains or bodies of water were affected.



LOXAHATCHEE RIVER DISTRICT

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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Albrey Arrington, Ph.D., Executive Director

FROM: Jason A. Pugsley, P.E., Operations – Plant Manager

DATE: January 13, 2023

SUBJECT: December 2022 Operations Department Monthly Report

Treatment Plant Division/Maintenance Department

Overall, the month of December was productive with all monthly reports prepared and submitted on time. Influent biological load concentrations to the plant were extremely variable and higher than normal. This is believed to be attributable to the holidays. The maximum daily and monthly average influent total suspended solids (TSS) concentrations during the month were reported at 587 milligrams per liter (mg/l) and 328 mg/l, respectively. In comparison, the monthly average influent TSS concentration over the last 4-years was 261 mg/l. The maximum daily and monthly average influent carbonaceous biological oxygen demand (CBOD) during the month was reported at 460 mg/l and 285 mg/l, respectively. In comparison, the monthly average influent CBOD over the last 4-years was 225 mg/l. In response to the higher-than-normal influent loads, the plant Operators made a series of strategic adjustments to the plant operating characteristics to ensure that all regulatory treatment requirements were met. I am pleased to advise that all treatment requirements were met and there were no permit exceedances this month.

The plant did not experience any unauthorized discharges during the month of November.

Kevin L. Baker
BOARD MEMBER

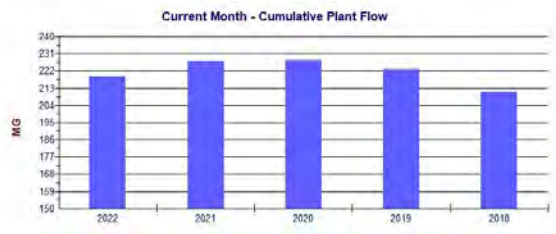
Gordon M. Boggie
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Stephen B. Rockoff
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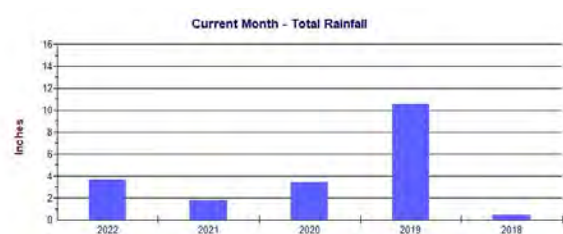
Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

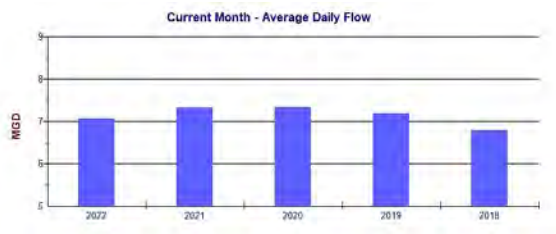
Graphical summaries of the plant flows and rainfall during the month of December, including comparisons with plant flows during the previous month (i.e., November 2022), are presented below.



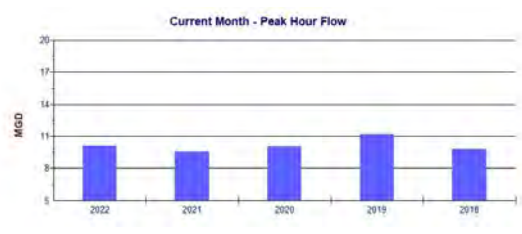
The Cumulative Influent Flow to the plant for the month of December was 218.96 million gallons. This is slightly greater than the November flow of 214.61 million gallons.



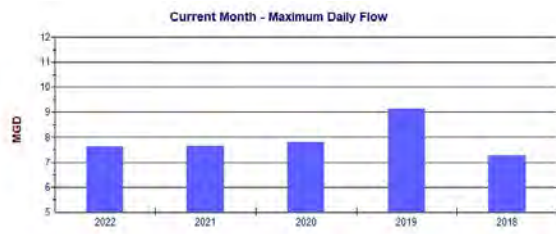
3.65 inches of total rainfall was recorded at the plant site during the month of December. This is significantly less than the November rainfall recorded of 6.00 inches.



The Average Daily Flow (ADF) for the month of December was recorded at 7.06 MGD compared to 7.15 MGD during the month of November and 7.33 MGD during December 2021.

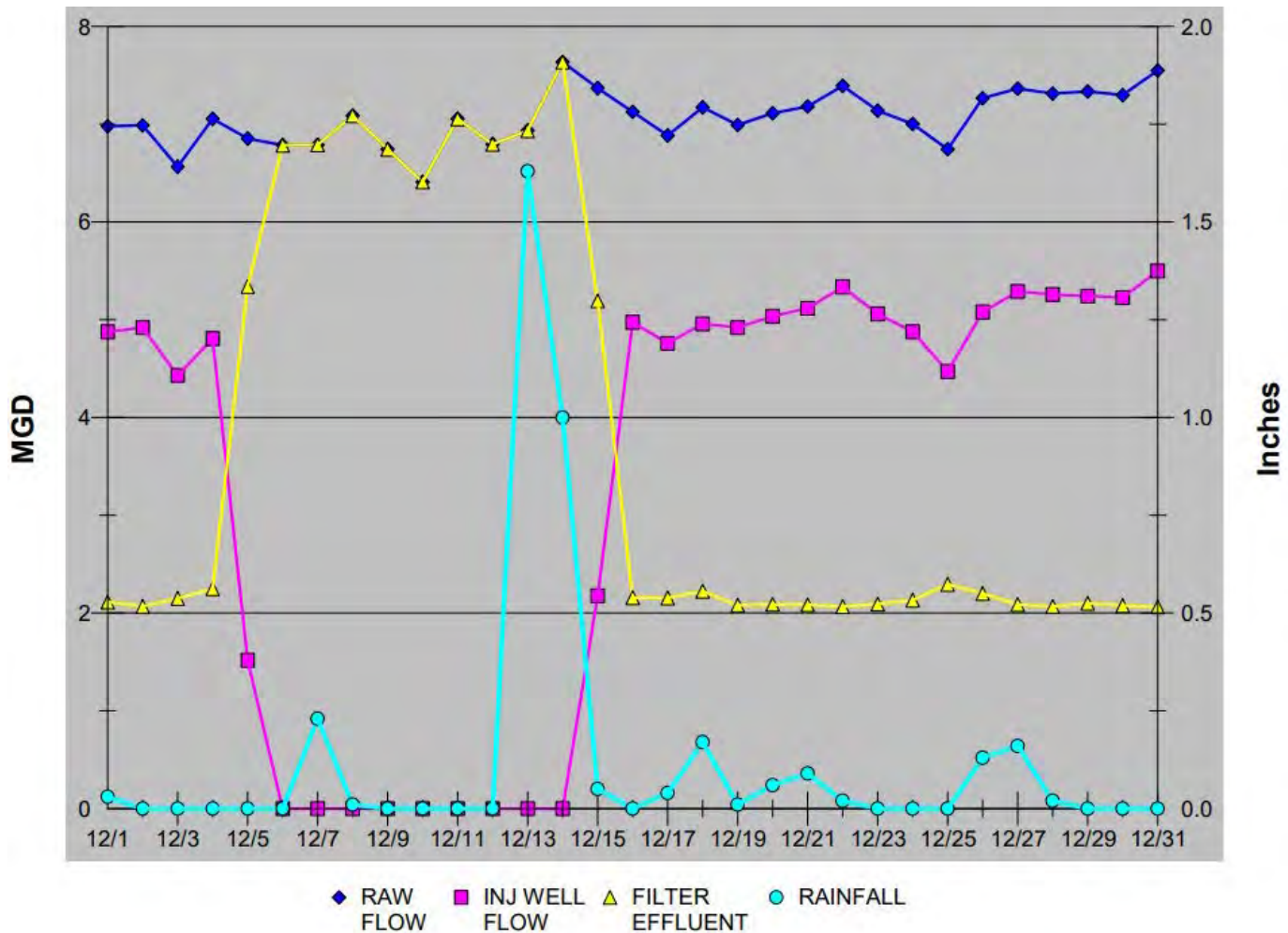


The Peak Hour Flow (PHF) for December was 7,000 GPM which equates to an equivalent daily rate of 10.08 MGD. This is a slightly higher than the PHF for October of 6,805 GPM (9.80 MGD).



The Maximum Daily Flow (MDF) in December was 7.64 MGD. This is slightly less than the MDF for November of 7.75 MGD.

For the month of December, 52.68% or 115.34 MG of the cumulative influent flow to the plant was sent to the IQ storage system where it was distributed, as needed, to the various golf courses and the Abacoa development sites. A total of 103.85 MG of blended effluent was diverted to the Deep Injection Well. The plant delivered a total of approximately 146.21 million gallons of IQ water to the reuse customers during the month of December.

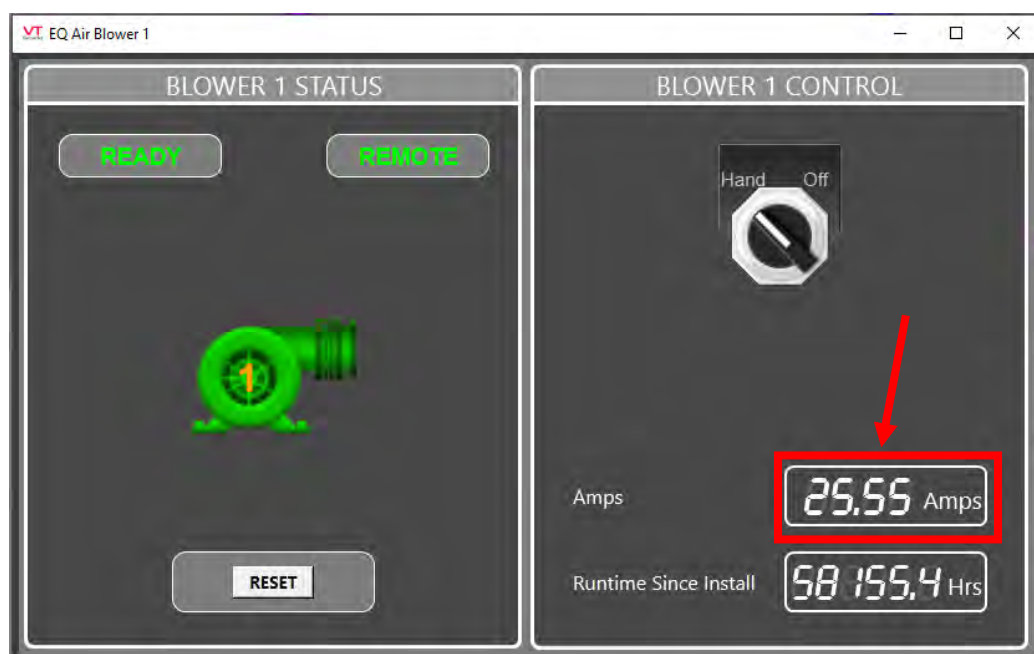


Year to date (i.e., Calendar Year 2022), approximately 76.20% of all influent flow to the plant was treated and available for reuse as IQ water. The total volume of IQ water distributed to reuse customers for the year stands at 2,232.25 million gallons.

All monthly reporting was submitted on time.

Treatment Plant:

Operations Staff continued to perform routine monitoring, sampling and general maintenance of equipment and structures. Staff also worked with the Maintenance Team and a qualified system integrator to integrate ampere meters for the three (3) positive displacement blowers dedicated to providing process air blowers to the two equalization return ground storage tanks into the plant Supervisory Control and Data Acquisition (SCADA) system. The ability to remotely monitor and set operational limits/alarms based on the amperage draw of the blower motors will allow Staff to monitor the performance of the blowers and receive notifications when there is a potential operational issue. For example, upon indication of low motor amperes an alarm will advise the Operators and they can quickly troubleshoot the issue. Under this scenario, Operators would likely discover that the drive belt which couples the motor to the blower unit has failed/broken.



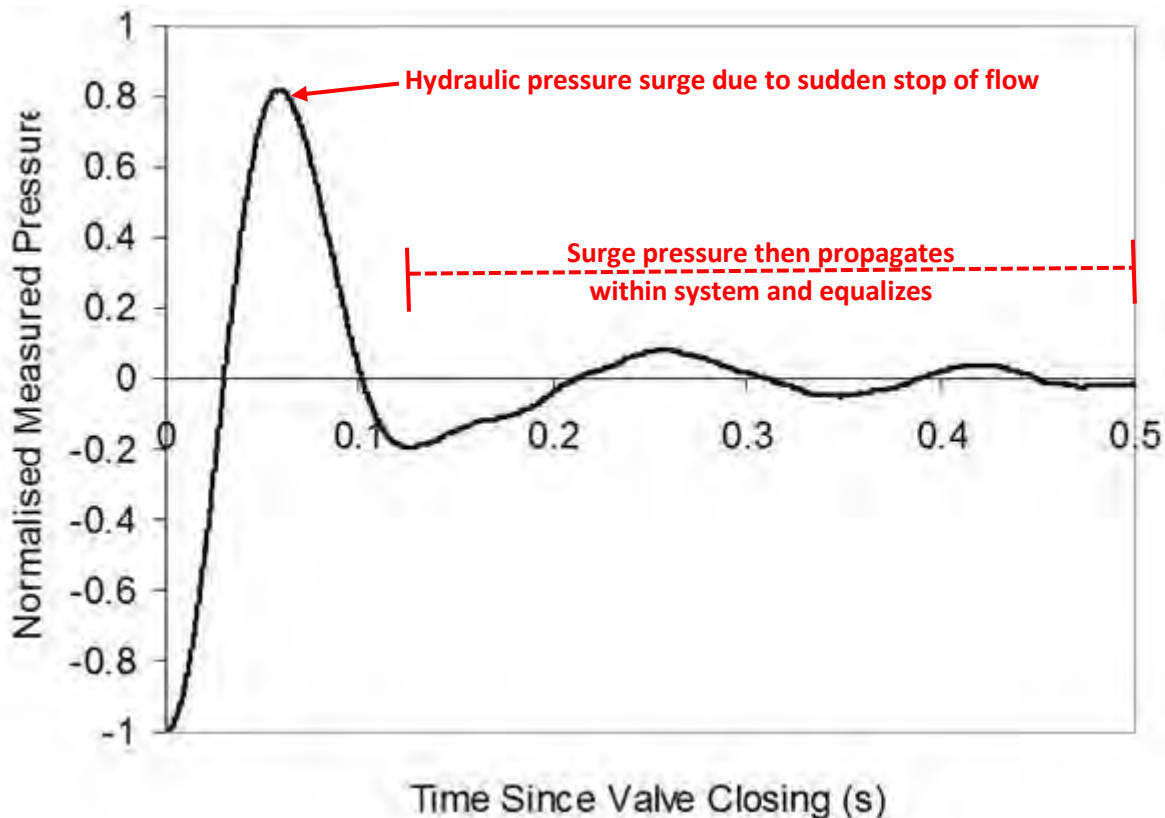
Equalization Storage Tank - Blower No. 1 Status and SCADA Interface Screen

VT Alarm Page

System Alarm DB	Alarm Actions	Reports & Analysis	History	Filtering
Database				
History	Active	Unacked	Current	Shelved
Disabled	Configured			
Name is "EQ\Blowers\B1\Amps" x				
	Time	Area	Name	
2	2022-12-12 09:19:48	Equalization Tanks	EQ\Blowers\B1\Amps\L15\LAAlarm	Blower 1 Possible Belt Failure
2	2022-12-12 09:19:47	Equalization Tanks	EQ\Blowers\B1\Amps\G35\LAAlarm	Blower 1 Possible Blower Failure

Equalization Storage Tank - Blower Control SCADA Alarm Advisory

While the system integrator was onsite, the Operations Team also worked with the integrator to identify potential improvements to the operation of the injection well pump station control logic. Control logic improvements implemented included fine tuning of the rate at which injection well pump speeds are decreased prior to pump shut-off. These types of adjustments minimize potential hydraulic surges or water hammer effects which can occur when pumping units are shut-off too quickly. This phenomenon can also occur when valves on pressurized systems close quickly. These surges occur due to the abrupt change in the flow direction which causes a corresponding shockwave within the system. A diagram which provides a visual of the water hammer effect is presented below for clarification. If left unattenuated, over time these types of hydraulic surges can have significant detrimental affects including pump and piping failures.



Example of Pressure Wave due to Water Hammer in Pressurized Systems

Maintenance Department:

The Maintenance Department continued to efficiently perform planned maintenance (PM) tasks over the last monthly period. In addition to the completion of standard PM tasks, the Maintenance Department addressed non-routine maintenance items as well as “special projects.” A few examples of these types of projects are presented below.

During the month of December, Maintenance Team members completed critical repairs to the existing slide gate located at site access Gate No. 2. Gate No. 2 is the western gate along Jupiter Park Drive and is the main point of access for District Staff, site deliveries and vendors. The repairs included the replacement of two (2) segments of the bottom rail of the gate which were completely worn through due to years of contact with the gate guide wheels. The damage was discovered when the guide wheels for the gate became hung up on the damaged section of rail, which prevented the gate actuator from automatically closing the gate. The sections of rail were cut-out and new sections were welded back in their place. Upon replacement, the gate functionality was tested, and the gate subsequently placed back into service. Staff are currently in the process of securing quotations to replace the entire slide gate. Being able to perform these types of repairs in-house ensured that site security and site access control are maintained, and that District business is unaffected.



Site Access Gate No. 2 – Worn Section of Bottom Rail



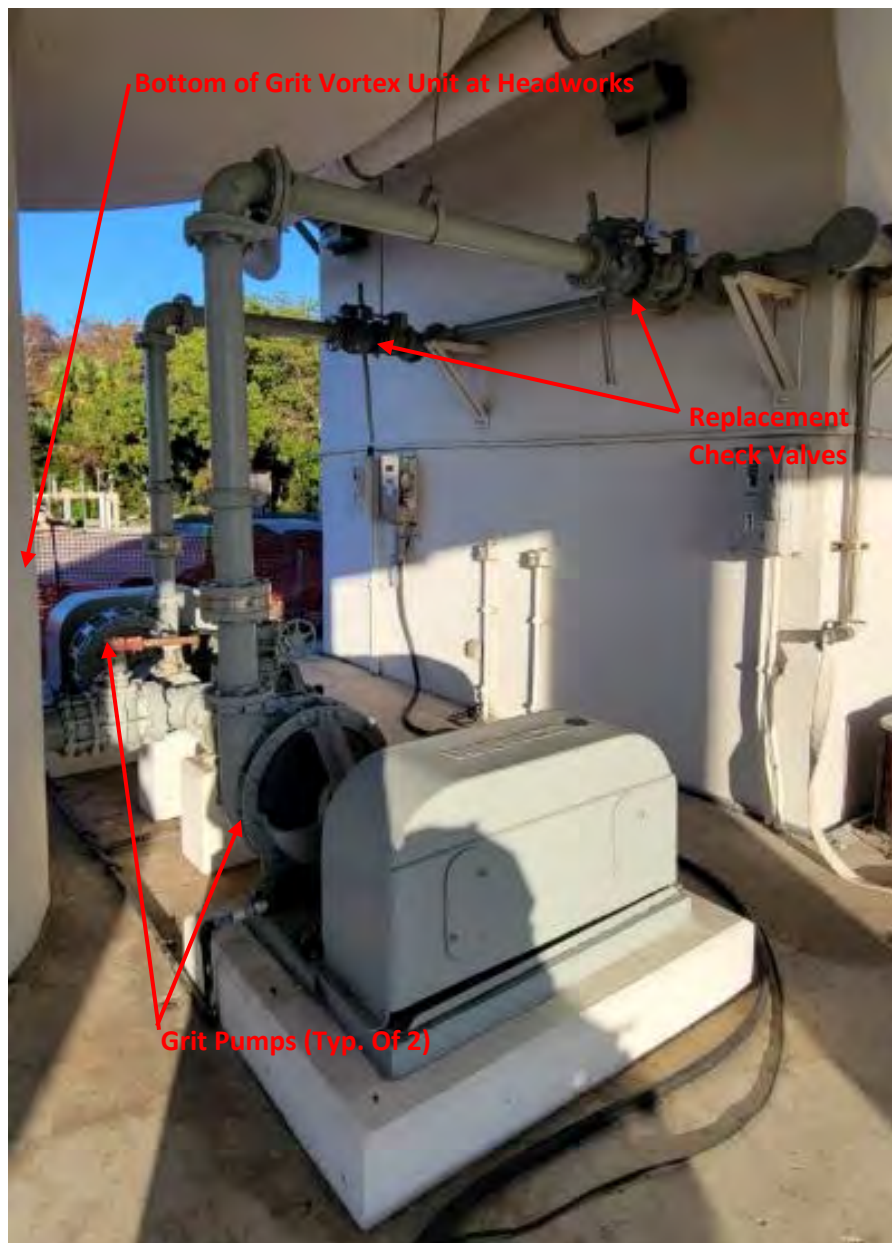
Site Access Gate No. 2 Gate Repairs

Maintenance Team members completed the demolition and replacement of the existing grit classifier unit located at the headworks structure during the month of December. The existing grit classifier unit had reached the end of its useful life and replacement was warranted. The grit classifier unit is a critical piece of equipment at the headworks structure of the District's wastewater treatment plant (WWTP). The removal of grit and sand from the plant influent is essential to the preservation and longevity of downstream pumps and equipment. The accumulation of grit and sand in downstream tankage can also result in the loss of treatment capacity within plant process tankage. Further, accumulation of grit and sand in unit treatment processes which utilize diffused aeration systems can cause clogging/plugging of diffusers resulting in increased maintenance and repairs as well as significant detrimental impacts to the effluent treatment quality. The Board previously approved the direct purchase of a replacement grit classifier. Upon delivery of the unit to the project site, District Staff performed a detailed review of the new unit and made specific modifications/additions to ensure full compatibility with the existing site and grit system conditions. Since replacement required the existing unit to be completely removed to facilitate installation, the Maintenance Team worked closely with the Plant Operators to schedule and complete the work to limit the downtime to a two (2) day period. The work was completed as scheduled and the unit is performing as specified.



New Grit Classifier and Hydrocyclone Unit

Lastly, Maintenance Team members replaced the two (2) check valves located on the discharge side of the grit pumping units. The grit pumps convey grit which has settled within the bottom of the grit vortex unit to the grit classifier unit where the grit is then separated from the liquid waste stream and discharged to a dumpster for offsite disposal. The proper operation of check valves is critical to pumping units since it eliminates the possibility of fluid flowing backwards. The replacement of the grit pump check valves is a bit unique because they are located overhead and required elevated work. All work was coordinated with Plant Operations to limit the downtime of the grit removal system.



Grit Pumps and Pump Discharge Check Valve



LOXAHATCHEE RIVER DISTRICT

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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Albrey Arrington, Ph.D., Executive Director
FROM: Bud Howard, Director of Information Services
DATE: January 11, 2023
SUBJECT: Information Services Monthly Governing Board Update for December 2022

WildPine Ecological Laboratory

Riverkeeper Project

In December, the lab staff and our partners collected 164 water quality samples from 29 monitoring stations throughout the watershed. In addition, a total of 77 fecal indicator bacteria samples were tested in support of additional testing for the weekly bacteria monitoring program and the additional monthly testing in Jones and Sims Creeks.

The overall water quality score for December 2022 was “Fair” with 75% of all samples meeting the EPA/DEP water quality criteria. This was similar to last month’s score of 77%, but down from last year’s score of 87% for December (see score card below).

Notably, we documented highly unusual turbidity (a measure of the cloudiness of the water) of 43 NTU at the Jupiter Inlet (Station 10). These observations are consistent with the cloudy water that we have visually observed along the beach, particularly during swell events, and east to south winds, since the large-scale beach nourishment projects along Jupiter and Juno beaches during the winter of 2020/21. While it is not unusual to see nearshore turbidity following a beach nourishment projects, the magnitude of these projects seems to have prolonged the conditions. The photo below (left) shows the sea conditions on December 13th, the day sampling occurred, as well as a plot (right) of the turbidity values for the inlet Station 10 since 2015 showing the context of this, most recent, high turbidity reading.



Kevin L. Baker
BOARD MEMBER

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BOARD MEMBER

Water Reclamation – Environmental Education – River Restoration

Total Nitrogen scored “Good” during December with 93% of sites meeting the water quality criteria. This was a slight drop from last month’s score and last year’s score. *Total Phosphorus* scored “Good” with 86% of sites meeting the criteria, which was slightly better than last month’s score of 83%, but still down from last year’s 94%. *Chlorophyll* improved in December scoring “Fair” with 76% of sites meeting the criteria, which was quite better than last month’s score of 56% and identical to last year’s score of 76%. For the combined *Fecal Indicator Bacteria* (fecal coliforms in all waters, enterococci in marine and brackish waters and *E. coli* in fresh waters), December scored “Fair” again for the 7th month in a row at 64%, which is worse than last month’s score of 74%, and down from last year’s “Good” score of 84%.



TN: Total Nitrogen, TP: Total Phosphorus, CLA: Chlorophyll a, BAC: Enterococci and E. coli bacteria

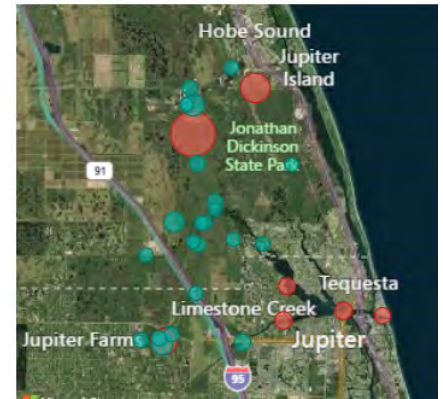
Year	Month	# Samples	Overall Score	# TN Samples	Total Nitrogen Percent Good	# TP Samples	Total Phosphorus Percent Good	# CLA Samples	Chlorophyll Percent Good	# BAC Samples	Bacteria Percent Good
2022	December	164	75%	29	93%	29	86%	29	76%	77	64%
2022	November	120	77%	18	100%	18	83%	18	56%	66	74%
2022	October	160	71%	30	100%	30	73%	30	40%	70	71%
2022	September	104	81%	19	100%	19	95%	19	79%	47	68%
2022	August	162	80%	26	88%	26	88%	26	77%	84	76%
2022	July	159	72%	30	93%	30	70%	30	47%	69	75%
2022	June	123	76%	16	88%	16	75%	16	69%	75	75%
2022	May	119	84%	21	95%	20	85%	20	80%	58	81%
2022	April	147	82%	26	96%	27	81%	27	48%	67	91%
2022	March	123	88%	16	100%	16	100%	16	88%	75	83%
2022	February	153	86%	26	88%	26	88%	26	85%	75	84%
2022	January	152	88%	28	100%	28	89%	28	79%	68	85%
2021	December	126	87%	17	100%	17	94%	17	76%	75	84%
Total		1812	80%	302	95%	302	84%	302	68%	906	78%

Spatial Distribution of Water Quality Results

In December, Chlorophyll results met the water quality criteria at 22 out of 29 sites. The highest value was observed at Station 101 in Jonathan Dickinson State Park (drainage canal to Kitching Creek) with 65 µg/L. The second highest value was observed at Station 56 (Papaya Village outfall to Jonathan Dickinson State Park) with 34 µg/L. These values were well above the freshwater numeric nutrient limit of 20 µg/L. The other poor-scoring stations were in the estuary, which have very strict water quality standards, with results ranging between 6 µg/L at Station 10 in the Jupiter Inlet, and 10 µg/L at Station 72 at the Loxahatchee River Road bridge in the SW Fork.

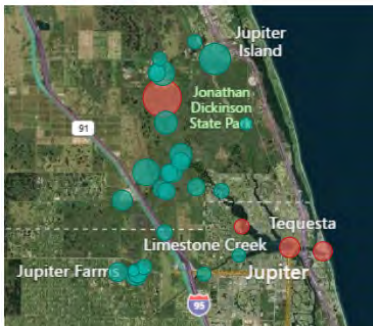
Chlorophyll a (µg/L)

CHL_Score ● GOOD ● POOR



Total Phosphorus (mg/L)

TP_Score ● GOOD ● POOR

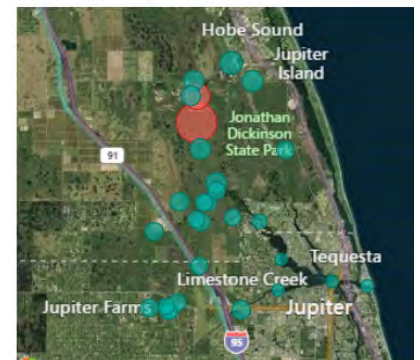


Total Phosphorus (TP) results scored “Good” at 25 out of 29 sites in December. Station 101 in Jonathan Dickinson State Park (drainage canal to Kitching Creek) had to highest value at 0.14 mg/L, just over the Numeric Nutrient Criteria (NNC) of 0.12 mg/L in freshwater. The lower estuary (Stations 10, 40, and 60) also scored poor with results ranging between 0.03 mg/L and 0.06 mg/L.

Total Nitrogen results scored “Good” at 27 out of 29 sites in December. Like chlorophyll and phosphorus, the highest value was observed at Station 101 in Jonathan Dickinson State Park (drainage canal to Kitching Creek) with 3.8 mg/L. That’s more than twice as high as the freshwater quality standard of 1.5 mg/L. There was only one other observation of nitrogen levels this high and that was in May 2001. Station 111, which is directly upstream of Station 101, also scored poor at 2.0 mg/L.

Total Nitrogen (mg/L)

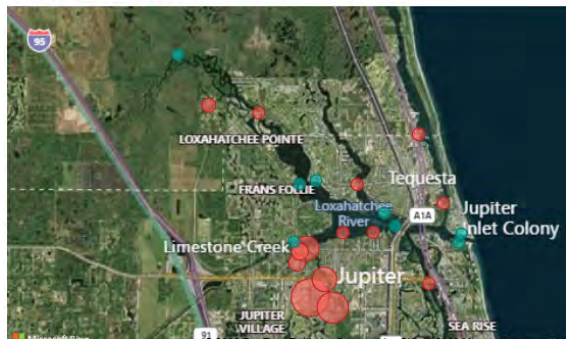
TN_Score ● GOOD ● POOR



The fecal indicator bacteria results scored “Fair” again for the seventh month in a row, and the concentration levels increased marginally in December. For Enterococci (see map below left), the preferred indicator bacteria for salt and brackish waters, fourteen stations throughout the watershed scored “Poor”. In Jones and Sims Creeks, all six stations sampled scored very “Poor”. The Caloosahatchee Culvert (CALC) site had the highest enteric concentration at 8,164 MPN/100 mL, which was up from last month’s 5,172 MPN/100 mL. The Toney Penna Footbridge (TPJ) was also very “Poor” at 6,131 MPN/100 mL. For E. coli (see map below right), the preferred indicator bacteria for freshwater, only three stations scored “Poor”. Sims Canal (Station 74) had the highest E. coli count at 1,274 MPN/100 mL. Drainage Canal-1 at Jupiter Farms Road (Station 95) had 733 MPN/100 mL. Site 74DW, which is downstream of Station 74 also had a poor score with 428 MPN/100 mL. The state water quality standard for E.coli is 410 MPN/100 mL for a single sample.

Enterococci Bacteria - Criteria: 130 MPN/100mL

ENT_Score ● GOOD ● POOR



E. coli Bacteria - Criteria: 410 MPN/100mL

ECOL_Score ● GOOD ● POOR



Whale Sighting

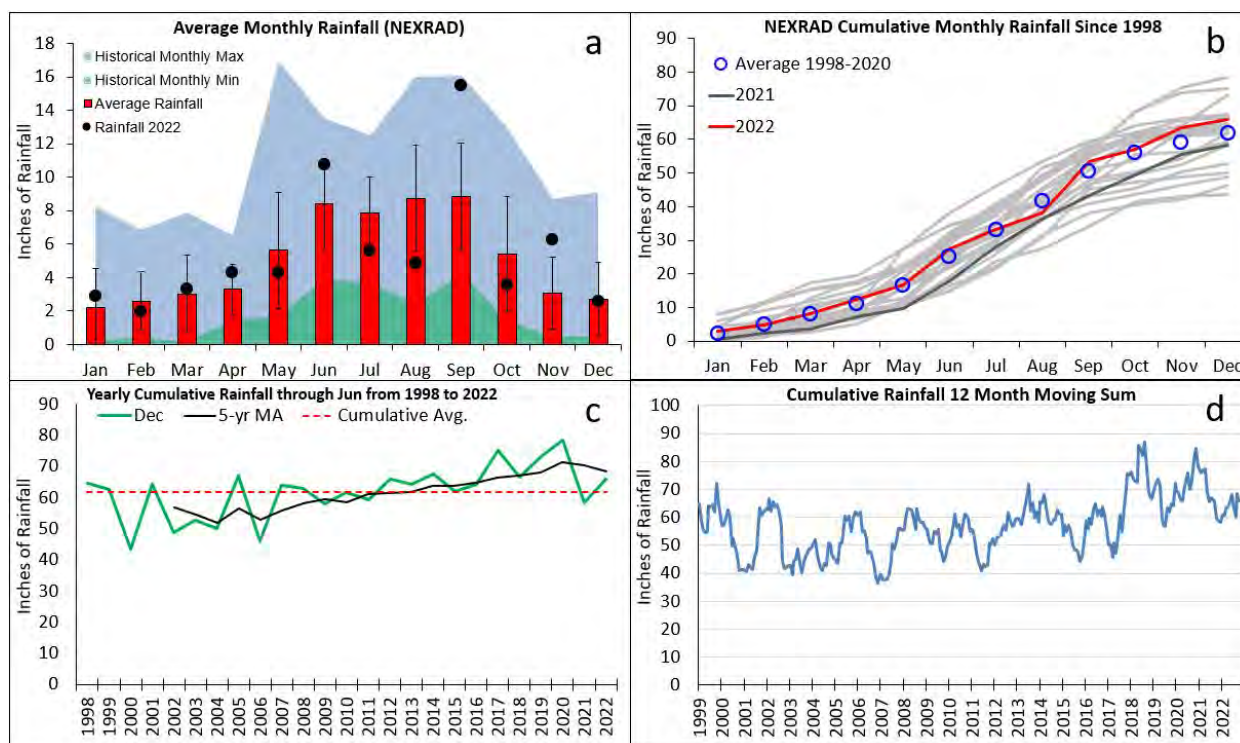
On January 11, a North Atlantic Right Whale and her calf were spotted just off Jupiter Inlet and they travelled slowly to the south along the beach, providing great viewing opportunities to the public. The North Atlantic Right Whale is one of the world’s most endangered large whale species, with estimates suggesting fewer than 350 individuals remaining. Some incredible footage was captured by drone operators, some of which were provided to local news outlets. See story on Channel 25 WPBF [HERE](#)



Hydrologic Monitoring

Rainfall

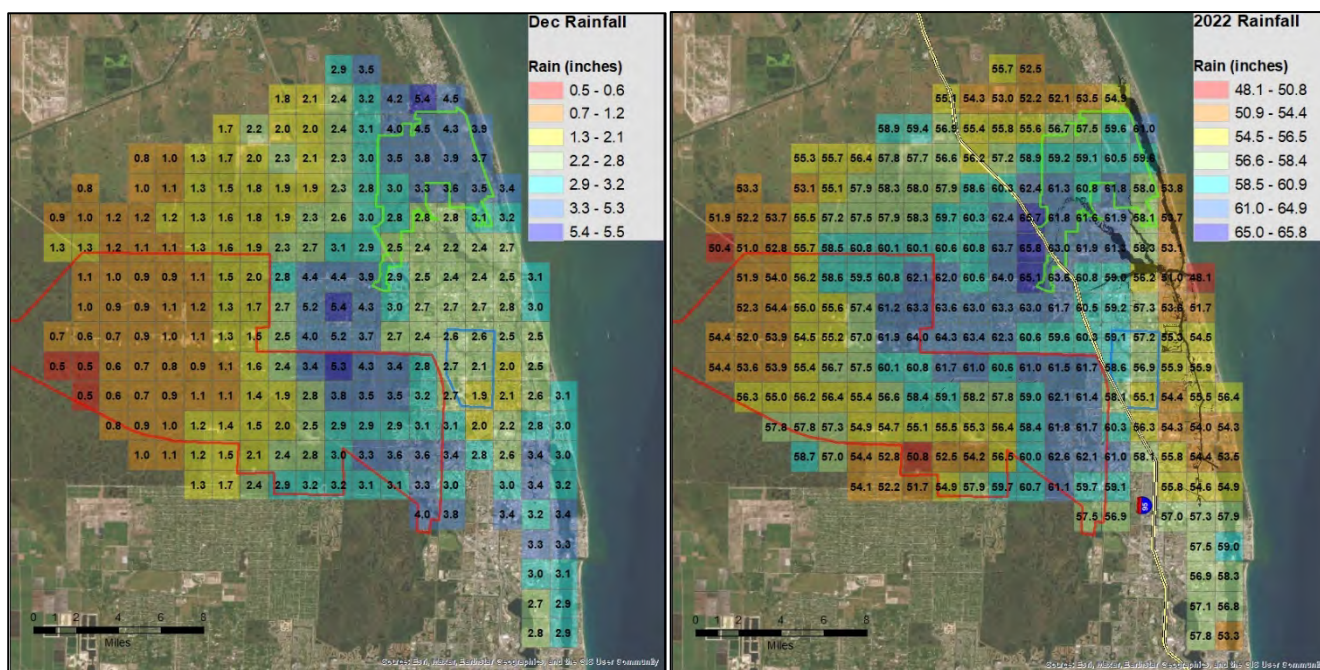
December concluded 2022 as a year with slightly above average rainfall. Rainfall across the watershed during December was 2.6", only slightly below the normal monthly average of 2.7" (panel 'a' in figure below). Rain was detected within the watershed during 17 days throughout December with the highest single-day total of 1.0" recorded on December 13. With average amount of rainfall in December, the annual cumulative rainfall for 2022 was 66.0", about 7% (or 4") above the yearly average of 61.8" (panel 'b' in figure below).



Figures above display various measures of rainfall. Panel (a) shows average monthly rainfall from 1998 to 2021 (red bars; error bars indicate ± 1 sd). Black dots indicate monthly rainfall for 2022. The blue and green shaded areas show the maximum and minimum rainfall ever recorded for each month. Panel (b) shows monthly cumulative rainfall for each year since 1998. Red line indicates cumulative rainfall during 2022; dark grey line indicates rainfall during 2021. Blue circles are monthly cumulative average rainfall measured between 1998-2021. Panel (c) shows cumulative annual rainfall using NEXRAD radar-based data. Green line indicates cumulative rainfall through indicated month for each year since 1998, when the radar-based rainfall measurements began. Black line is the 5-year moving average across all years and red dashed line shows cumulative average through indicated month. Panel (d) shows cumulative 12-month moving sum of monthly rainfall.

The spatial distribution of rainfall across the watershed in December ranged from just 0.5" in the driest regions to about 5.5" in the rainiest regions (figure left below). In general, rainfall tended to be widely distributed through much of the watershed with slightly higher rainfall in the Jupiter Farms region and Jonathan Dickinson State Park (blue and purple cells). The driest regions were in the western portion of the watershed which includes much of the C-18 basin near Pratt & Whitney and J.W. Corbett Wildlife Management Area.

For the year (figure right below) the area with the most rainfall was along the central portion of the watershed (blue and purple cells), with areas with roughly 20% less rainfall along the coast and periphery of the watershed (red and orange cells).



Spatial rainfall distribution across the watershed using NEXRAD data; image at left is rainfall data for December and image at right shows total rainfall for 2022. Each pixel represents an area of 2 km x 2 km. Blue colored pixels show highest rainfall and red pixels show lowest rainfall. For reference, the red line is the C-18 basin which includes portions of J.W. Corbett WMA, Loxahatchee Slough, and Pine Glades Natural Area; green line shows Jonathan Dickinson State Park boundary, light blue line shows the Abacoa development.

River Flows

During December, river flows measured at Lainhart Dam ranged from 72 cfs on December 12 to a peak of 336 cfs two days later on the 14th, and a monthly average flow of 130 cfs. This month's flow was down from November's average of 196 cfs.

For the year, flow averaged 106 cfs and ranged from a low flow of just 3 cfs on May 10 to a peak flow of 479 cfs on Sept. 28 in response to a busy storm season that brought a record 15.5" of rain in September (top figure in the panel below). During 2022, there were 39 days of flow that were below the 35 Minimum Flow and Level (MFL) target, most occurring between March and May. The 11-day period beginning May 23 was the longest stretch of consecutive days with average daily

flow below the 35 cfs MFL but was less than the 20 consecutive days that would result in a MFL exceedance for flow.

The S-46 flood control structure remained closed for much of December with the exception of a 3-day period beginning December 14 when peak flow reached 337 cfs in response to a rainfall event. The structure also remained mostly closed through much of 2022, except for September when there were releases in anticipation of approaching storms. Peak daily flow for the year was 1,794 cfs on Sept 28. During 2022, the 6-day period beginning Sept. 27 had peak flows above the 350 cfs threshold for “moderate flow” during which three days exceeded the 700 cfs threshold for stressful conditions to the estuary. In general, this was another excellent year with very few significant and harmful flood control releases and we are grateful to the operators at the SFWMD for their excellent management of the system.

River flows through December were sufficient to maintain low salinity in the upstream reaches of the Northwest Fork of the Loxahatchee River. For the year, salinity at River Mile 9.1 began to increase in April with the first peak of 6 ppt on April 11 and a second higher peak of 9 ppt measured on May 12. Average daily salinity throughout 2022 at this site was 0.5 ppt with a total of 17 days of the 20-day rolling average of salinity above the 2 ppt threshold, which is the MFL exceedance.



Top figure shows mean daily flow with number of days during the year that mean daily flow was below the 35 cfs MFL. Total daily rainfall is also shown. Center panel shows mean daily flow measured through the S-46 flood water control structure. Moderate flow (>350 cfs) and high flow (>700 cfs) levels are indicated by red and yellow lines respectively as are the number of days these flows were exceeded. Bottom panel shows mean daily salinity at the USGS River Mile 9.1 structure with the 2 ppt threshold line indicated. The number of days of salinity exceedance and mean salinity through the year are shown at right.

Oyster Spat Monitoring

Oyster spat settlement evaluation for the 24-day period ending December 15 showed the anticipated further decline in oyster settlement activity in both forks of the river as we enter the cooler winter months. In the Northwest Fork, average spat density was 338 spat m² with nearly all, or 98%, of the activity occurring at the downstream site. This density was about 46% below the historical period average of 627 spat m² (see figure below) and was about 30% below the 482 spat m² counted during same period 2021.

Oyster spat settlement in the Southwest Fork was slightly higher than that in the NWF at 377 spat m² with about half, or 53%, of settlement activity occurring at the upstream site. Spat density was about 33% above the period average of 283 spat m² and was about 13% below the 432 spat m² counted during same period last year.

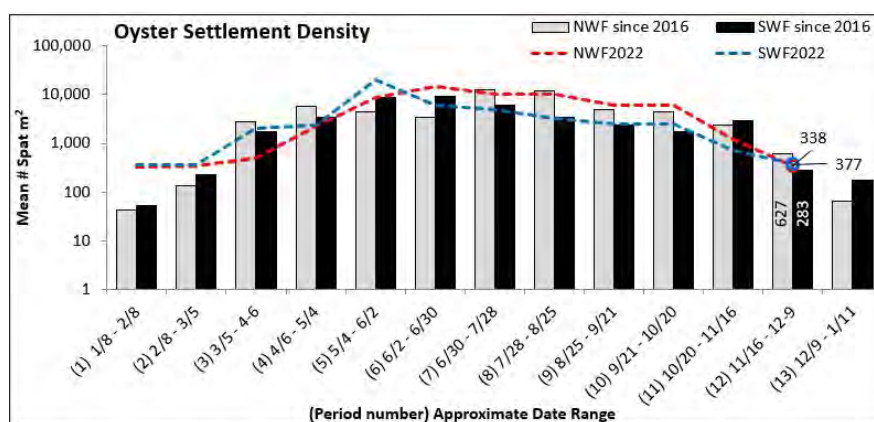
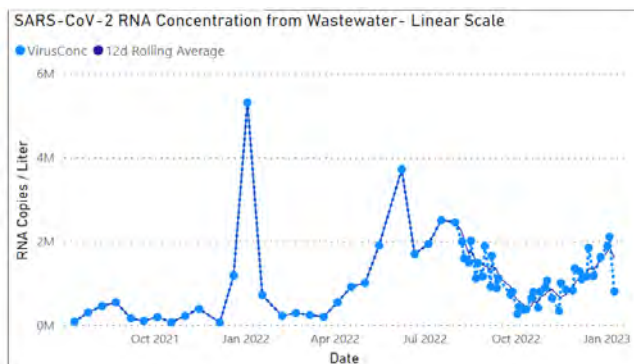


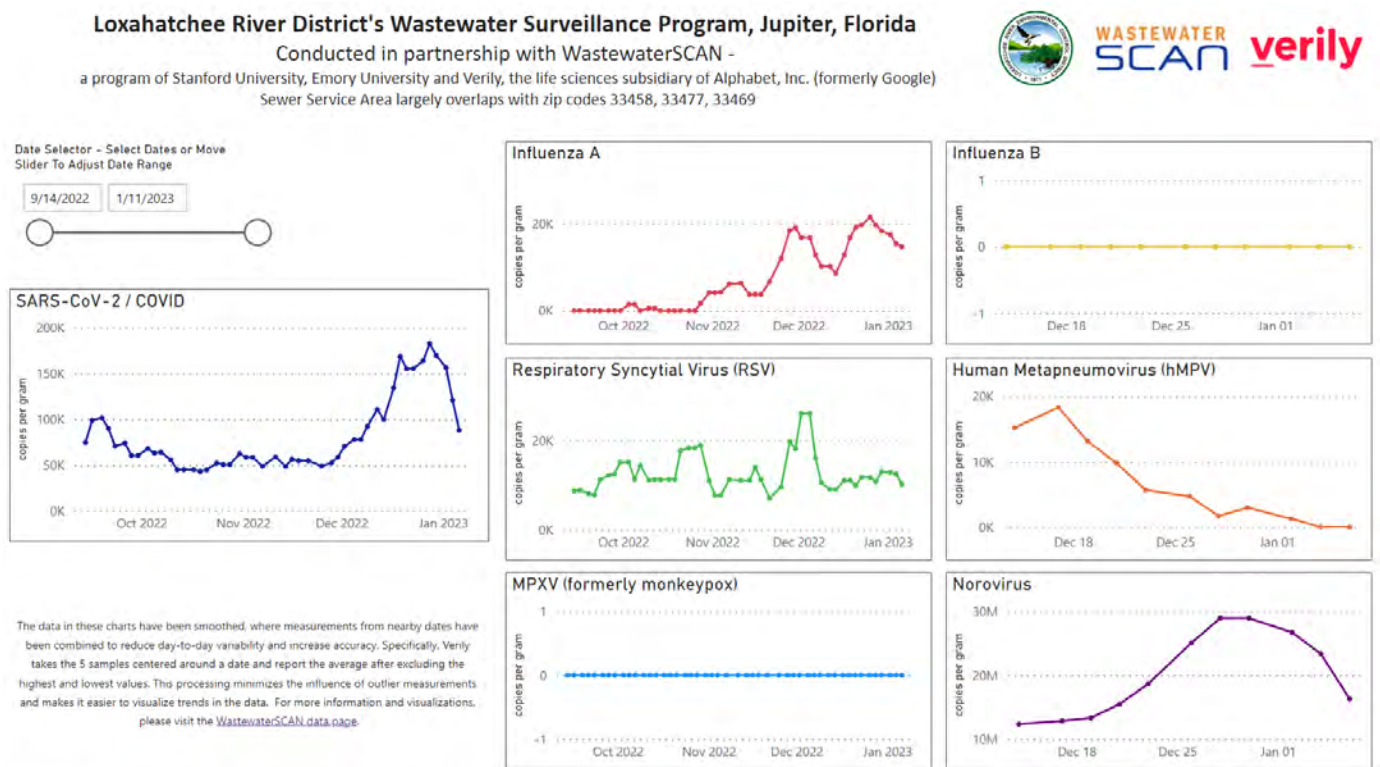
Figure shows mean oyster spat settlement for the Northwest Fork (gray bars) and the Southwest Fork (black bars) since 2016. Dashed lines show oyster spat settlement so far for 2022 in the NWF (red) and SWF (blue). Note logarithmic scale of vertical axis.

Wastewater Surveillance of COVID-19

The wastewater surveillance monitoring for the Biobot/CDC and WastewaterSCAN programs for COVID-19 showed the increase in virus concentration during the holidays, but the concentration is now on the decline. These observations are consistent with what many virologists were predicting for the holiday season. Despite the high contagiousness of the present variants the virus concentrations were notably less than the record concentrations we measured last year in the Biobot/CDC program (figure right).

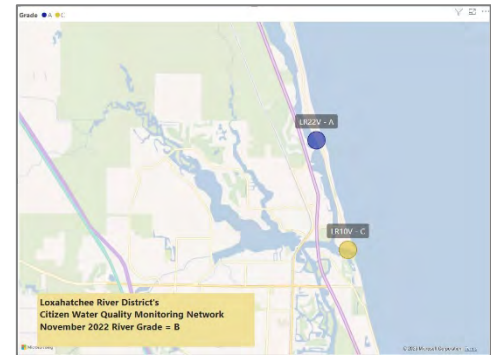


On December 15, the WastewaterSCAN program began monitoring several new parameters including Influenza B, Human Metapneumovirus (hMPV, as seasonal respiratory virus related to RSV), and Norovirus, the leading cause of gastrointestinal illness around the world. These complement the previously monitored Covid, Influenza A, Respiratory Syncytial Virus (RSV) and MPXV (formerly monkeypox). We have updated the data visualization on our wastewater surveillance web page <https://loxahatcheeriver.org/wastewater-surveillance/> to show all the parameters (screenshot below).



Volunteer Water Quality

The overall Volunteer Water Quality grade for December 2022 was again a “B”. The score for the Jupiter Inlet site continued to be influenced by turbid water that was visible along the coast for much of the month, resulting in the low grade for water clarity. Poor water quality conditions were observed the third week of the month with nearly all parameters (except color) scoring in the “Fair” to “Poor” range.



Site	Averaged results for the Month							Monthly Cumulative Grades						Cumul. Monthly	
	Temp (F)	Secchi	Salinity	pH	DO	DO%	Color	Vis	Salt	pH	DO	DO%	Color	Score	Grade
LR10V	24.6	1.25	31.9	8.1	6.6	95.6	1.3	F	C	B	B	C	C	72.9	C
LR22V	22.8	1.00	33.5	8.3	6.5	98.1	1.0	A	A	A	A	A	A	100.0	A
Average	23.7													80.9	B

VAB (Visible at Bottom)

DO (Dissolved Oxygen)

ND (No Data)

Customer Service

Payment Processing

The Customer Service Team closed out the 4th Quarter Billing processing over 2,200 late payments totalling over \$280k. For the quarter, we saw another incremental increase in the number of digital payments (versus cash/check) of over 200 accounts, which totalled 77.8% of the payments for the quarter.

For the year, digital payments comprised 77.0% of our payment methods, compared to 74.6% in 2021. Among our three primary payment channels we saw small declines in the numbers of people paying through a) their bank's online bill pay service or b) cash/check, compared to c) credit/debit card or eCheck payments through autopay, website, or phone call. Despite more transactions through the more expensive credit/debit/eCheck channel, we saw a nearly 10% reduction in transaction fees because of fewer commercial card transactions. Payments through Autopay increased 12% for the year, well ahead the number of payments through our website (up 3.6%) and by phone (up 2.4%). Lastly, the proportion of credit/debit card payments versus eCheck payments for the year was essentially unchanged compared to 2021, with 58% credit card and 42% eCheck.

Customer Information & Billing System

We were originally scheduled to go live with our new Customer Information and Billing System in December, but there are programming delays. Because of the software providers software release schedule, and our quarterly billing cycle, we are targeting a “go live” in May.

Information Technology (IT)

Suspected Phishing Email Detection Tooltip

Phishing emails continue to pose the greatest threat to the District based on the quantity of threats we detect with our monitoring and prevention tools. To assist the user in detecting suspected phishing emails, we have enabled additional features on incoming emails that provide tool tips on email messages that may indicate a phishing attempt.

If the message receiver has never or infrequently received a message from the sender, the email will display a brief caption letting the user know the message is unusual and why.



Example of Suspected Phishing Email tooltip

Credential Phishing Detection

Phishing emails can be used to steal information or break into online accounts and possibly networks. Links in the email can take users to bogus (or phishing) websites that look like the legitimate destination but are designed to “credential phish” or steal this user’s login credentials.

To counter credential phishing, we have enabled a new, highly advanced feature on our network security system called Credential Phishing Detection. Credential phishing prevention works by blocking the user from using duplicate credential submissions based on the website address. If the user attempts to use their encrypted username and password submissions elsewhere, the user receives a message telling them why the attempt was blocked and who to contact.

Loxahatchee River Environmental Center

January 2023

River Center Summary Statistics



LRD'S ENVIRONMENTAL STEWARDSHIP DASHBOARD



	Environmental Stewardship Impact [%ES Impact = (Total Visitors x ES Index)/Monthly Target]	Environmental Stewardship Index	Total Visitors (incl. Visitors, Field Trips, Onsite Programs)	Average Program Participation [Actual participants/Capacity of Program]	Volunteer Engagement	1st Time Visitors	Visitor Satisfaction	Staff Overall Program Assessment	Expenses	Program Revenue
Benchmark / Customer Expectation	% of Target	Monthly Average [Max Rating is 9]	% of Target	% of Capacity	% of Target	% of Target	Rating Average [Max Rating is 5]	Rating Average [Max Rating is 9]	% within budget	% of Target
Blue Level	≥ 110%	≥8	≥ 110%	≥ 95%						
Green Level	≥ 90%	≥7	≥ 90%	≥ 75%	≥ 90%	≥ 90%	≥4	≥7	≥ 85% but ≤ 105%	≥ 90%
Yellow	≥ 75%	≥5	≥ 75%	≥ 50%	≥ 75%	≥ 75%	≥3	≥5	≥ 80%	≥ 75%
Red	<75%	<5	<75%	<50%	<75%	<75%	<3	<5	< 80% or > 105%	<75%
2020 Baseline	62%	7.6	28%	50%	70%	65%	4.6	7.8	81%	103%
2021 Baseline	188%	8.1	112%	83%	102%	275%	4.7	7.8	92%	85%
2022 Baseline	118%	8.3	88%	120%	75%	163%	4.6	7.9	91%	94%
2021 Dec	74%	8.1	67%	86%	63%	193%	4.9	7.6	95%	120%
2022 Jan	44%	8.4	65%	73%	65%	236%	4.9	7.6	98%	111%
Feb	45%	7.8	79%	90%	109%	235%	4.5	8.1	99%	98%
Mar	82%	8.2	91%	90%	96%	110%	4.7	8.2	103%	103%
Apr	82%	8.6	104%	75%	136%	173%	4.9	7.9	97%	87%
May	45%	8.1	55%	86%	55%	147%	5.0	7.9	100%	153%
June	139%	8.4	86%	92%	105%	107%	4.8	8.0	100%	122%
July	152%	8.3	95%	84%	134%	164%	4.5	7.9	101%	123%
Aug	111%	8.3	88%	100%	147%	184%	3.8	8.0	91%	129%
Sept	63%	7.9	77%	86%	76%	178%	4.6	7.8	89%	120%
Oct	169%	8.4	79%	100%	118%	100%	4.9	7.4	55%	40%
Nov	112%	8.2	53%	104%	82%	111%	4.4	8.0	63%	27%
Dec	141%	8.3	94%	124%	50%	212%	4.6	7.9	90%	23%
Consecutive Months at Green	3	13	1	8	0	13	4	13	1	0
Metric Owner	O'Neill	O'Neill	O'Neill	Duggan/Warwick	Weeks	O'Neill	O'Neill	O'Neill	O'Neill	O'Neill

Metric	Explanation
Volunteer Engagement	Once again, we had fewer sign-ups during the Winter Break than we normally do. More people were travelling this year.
Revenues	Most programs in December were offered without charge so we saw less revenue from that source.

River Center General

Level 2 Kayak Recertification [December 3-5th]



Staff members Jocelyn O'Neill, Sara Duggan, and Samantha Warwick were assistant instructors for a Level 2 Kayak Certification Course at the Everglades Youth Conservation Camp. By participating as assistants in this course, we were able to complete a required update to maintain our Level 2 Kayak Instructor certification. This certification allows us to be able to train additional staff (interns and part-time staff) as well as volunteers to assist with our Kayak Programs. With a Level 2 certification we can conduct our kayak excursions on the river and our coastal waters.

Holiday Party

The Loxahatchee River District Holiday Party was well attended this year with 73 people in attendance. That included 42 staff members and 3 Board members. This year's theme was "Christmas Movies" with each table representing a different movie.



Special Programs

Blooming in the Garden [Saturday, Dec. 17]

On Saturday, December 17th the River Center held our Blooming in the Garden program, designed for children ages 3-6. The theme for this month was "Hibernation Celebration" which included a fun story featuring animals who hibernate, discussion of hibernation in Florida, and a bear-themed craft. When it was time to go home, the children received seeds to take home to start their own garden!



Lecture Series [Friday, Dec. 2nd]

This month, the lecture guest speaker, Stephen Kajiura, Professor of Biological Sciences at Florida Atlantic University, taught about the migration of Blacktip Sharks via zoom. By showcasing his use of aerial surveys with airplanes and drones, acoustic and satellite telemetry, underwater video monitoring, and animal-borne data loggers Stephen was able to explain the distribution and movements of sharks as they

overwinter along our coast and migrate up the eastern seaboard. This was an excellent lecture with 67 participants in attendance.

Science with Sam [Saturday, Dec. 10th]

On Saturday, Dec. 10th Science with Sam taught a class on the rock cycle. Students learned the various types of rocks and how they are formed by different natural processes, and what those processes are. Students investigated igneous, sedimentary, and metamorphic rocks at their tables, comparing the differences between them. The class ended by playing an educational game to showcase the rock cycle where the students were able to memorize the stages of the rock cycle by playing a life-size board game.



Homeschool Workshop [Wednesday, Dec. 14th]

This month the River Center conducted a homeschool workshop for students ages 7-10 all about camouflage! Students learned about the adaptation of camouflaging, including its uses, benefits and disadvantages. Participants also observed our resident animals and deciphered what camouflage types they had and lastly, they created their own camouflaged animal to take home. It was a wonderful and fun class with 17 students participating.



Special Story time [Thursday, Dec. 15th]

This month the River Center hosted a special story time with local author Gail Gray Tanis. Gail presented her wonderful book “Monica to Monarch” and even signed copies for guests. This a true story of two Grandparents GiGi and Poppy, who love the outdoors and spend most of their time outside on adventures. They especially love the big orange and black butterflies that fly around their backyard. To bring more of these beautiful creatures, they plant a butterfly garden, filled with flowers that butterflies like. The orange and black butterflies are called Monarchs, and the butterfly garden brings dozens of them. One day, GiGi notices a strange yellow speck on a milkweed leaf. This mysterious speck turns out to be an egg and soon becomes a tiny caterpillar! They name their new friend Monica. Monica eats and grows but then disappears. Where has she gone? Monica is making a new home inside a green chrysalis. It's time for Monica the caterpillar to become Monica the Monarch. This book showcased her transition from caterpillar to butterfly and included authentic photos of Monica's life cycle. It was a wonderful event and we hope to have Gail back at the center for our Atala Butterfly Festival in March.



Craft-A-Palooza [Thursday, Dec. 22nd]

On the first day of winter break, the River Center held Craft-A-Palooza, an event that allows children and their families to make a variety of crafts free of charge. Craft stations were set up around the classroom, including pinecone trees, jingle bell necklaces, ornament making, and holiday binoculars. Children used their binoculars to go on a holiday-themed scavenger hunt throughout the center and garden. Some participants were regulars from story time, Blooming in the Garden or Science with Sam, and some were new faces. This fun program is next scheduled for spring break.

Family Fishing Clinic [Friday, December 30, 2022]

As part of our holiday break activities, the River Center conducted a Family Fishing Clinic. This program began with a classroom session lasting about 45 minutes, where we covered fishing regulations, knot tying, various forms of tackle, fish identification, and the importance of safety while fishing. After the basics were covered, we went outside to try some casting with our fishing poles. The last 45 minutes of the clinic are just for fishing. Our guests bait their hooks and take to the dock to await their potential catches. It was a great day to be outdoors with 3 catches for the day. Fourteen children and seven adults participated in our Family Fishing Clinic.



Volunteer of the Month

Alex Veau is the December 2022 Volunteer of the Month! Alex always gets right to work tackling the daily task list and assessing which assignments take priority. He helps motivate the other volunteers on shift and always engages with the visitors very well. He has been a wonderful help during our touch tank demonstrations and makes sure to include every visitor, no matter their age. Alex has been a great volunteer around the River Center and we are so grateful for his help!

Upcoming River Center Events

RSVP at www.lrdrivercenter.org/events-calendar
rivercenter@lrced.org or 561-743-7123

Every Thursday, 9:30 a.m. – 10 a.m. – Story time: Join the River Center for Story Time. Families are welcome as we read stories and have an animal encounter.

January 20: 5:00 p.m. – 6:00 p.m.: Evening Lecture Series: Archaeology: Join us at the River Center for our new evening lecture series! Our January evening speaker is Malachi Fenn, Public Archaeology Coordinator for the Florida Public Archaeology Network. Malachi will be presenting on Florida's Ice Age. What foods would early humans have eaten, how different is Florida today, how Florida's first inhabitants survive the environment- all these questions and more will arise as we dive deeper into the history of Florida's Ice age. Registration is required to attend.

January 21: 1 p.m. – 2 p.m.: Science with Sam [Invasives]: On select Saturdays from 1:00 pm – 2:00 pm, join our Scientist Sam for different science activities for children 6-12. Activities will include garden exploration and hands-on opportunities with wildlife. Each month has a different theme! In this lesson students will learn the difference between native, exotic, and invasive species and meet a few invasive species to South Florida. Students will learn how invasive species came to Florida and what we can do to protect our native creatures.

January 28: 9 a.m. – 12 p.m.: Girl Scout Woodworking Badge: Wildlife is all around us! You just have to start looking. Junior girls will earn their Animal Habitats badge while Cadettes will earn their Woodworking badge. Badges are included in the program cost. All girls will learn about wild animals, special and endangered habitats, focusing on Florida wildlife. Girls will investigate and explore local habitats through the River Center's exhibits and aquariums. Finally, girls will help protect animals' habitats and put their skills to the test by creating animal houses. Each participant will leave the workshop with an animal box that they created and decorated themselves to help make their backyard and community more animal friendly. By being good woodworkers and advocates for wild animals, we can all help make the world a better place.

January 28, 1:00 p.m. – 2:30 p.m.: Introduction to Volunteering: Do you have a passion for the environment? Do you enjoy interacting and educating the public? The River Center is looking for enthusiastic and personable volunteers to join our River Center team! Individuals 14+ are invited to attend the next Intro to Volunteering workshop from 1:00 PM – 2:30 PM. For questions or application information please contact our Volunteer Coordinator Emmy Weeks at 561-339-3107 or Volunteer@Lrced.org

February 1, 10:00 a.m. – 12:00 p.m.: Nature Hike - Jupiter Ridge: Come explore with us! Tie up your hiking boots and join the River Center for our Nature Walk through the Jupiter Ridge Natural Area. Walk along the guided paths and immerse yourself in this local natural area. We will explore a path inside this natural area with uneven, sandy terrain. Interested participants should wear closed toed shoes, long pants(recommended), a walking stick, comfortable clothing and bring plenty of water. Please RSVP to attend. Space is limited.

February 3: 12:00 p.m. – 1:00 p.m.: Lecture Series: Fire – The Sparks of Life: Harper will be speaking on the benefits of prescribed burns, and the challenges of managing them. Did you know, Natural Areas

need fire! Historically, lightning sparked wildfires in Palm Beach County's forests periodically, every 3 – 5 years in pine flatwoods, and every 10 years in scrub habitats. Fire became a normal occurrence and life in the forests adapted to become dependent on it for survival. Fire is nature's way of keeping things in check by removing thick underbrush so sunlight reaches the forest floor, allowing for greater biodiversity. This process also creates new growth by generating heat which causes many trees and plants to germinate, recycling nutrients and minerals back into the forest soils. Conducting prescribed fires makes habitats healthier; Plants and animals have access to foods and foraging areas, nutrients are recycled into the earth, and out-of-control wildfires are prevented. Come listen and learn about the fascinating job of managing prescribed burns, and the benefit it provides for our natural areas.

February 4: 1 p.m. – 2 p.m.: Science with Sam [Nature Scavenger Hunt] at Jupiter Inlet Lighthouse

Outstanding Natural Area: On select Saturdays from 1:00 pm – 2:00 pm, join our Scientist Sam for different science activities for children 6-12. Activities will include garden exploration and hands-on opportunities with wildlife. Each month has a different theme! This lesson will focus on what migration is, why animals migrate, and migration challenges animals face. This lesson includes an interactive migration game.

February 11: 8:00 a.m. – 4:00 p.m.: Safe Boating Class: The River Center continues to collaborate with the US Coast Guard Auxiliary "Flotilla 52" to provide a series of Boating Safely Classes targeted specifically to young boaters in our community. These classes are provided through a generous sponsorship by the AustinBlu Foundation, a not-for-profit dedicated to raising awareness and promoting educational programs to improve boater safety. There is no cost for this class, however there is a deposit required to reserve a seat. The deposit of \$10 will be refunded in full to all students who complete the class. Recommended for children 12 years and up, but all ages are welcome.

February 11, 10 – 11:30 a.m.: Blooming in the Garden [Fantastic Frogs & Toads]: Join the River Center for our Blooming in the Garden program, designed for children ages 3-6. The program will start at 10:00am at the River Center Chiki Hut with a story time and a garden themed craft. We will then move to our garden for a garden themed hands-on activity. When it is time to go home, children will receive seeds to take home to start their own garden! This is an exciting opportunity for little ones and their families to enjoy nature together!

February 18: 1 p.m. – 2 p.m.: Science with Sam [Illuminating Bioluminescence]: On select Saturdays from 1:00 pm – 2:00 pm, join our Scientist Sam for different science activities for children 6-12. Activities will include garden exploration and hands-on opportunities with wildlife. Each month has a different theme! In this lesson students will discover the enchanting world of bioluminescence through experimentation. Students will have the opportunity to create their own luminescence and understand what a unique adaptation bioluminescence is, and what types of organisms have gained this feature.

February 25, 1:00 p.m. – 2:30 p.m.: Introduction to Volunteering: Do you have a passion for the environment? Do you enjoy interacting and educating the public? The River Center is looking for enthusiastic and personable volunteers to join our River Center team! Individuals 14+ are invited to attend the next Intro to Volunteering workshop from 1:00 PM – 2:30 PM. For questions or application information please contact our Volunteer Coordinator Emmy Weeks at 561-339-3107 or Volunteer@Lrecd.org



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

To: D. Albrey Arrington, Ph.D., Executive Director
From: Ed Horchar Safety Officer
Date: January 11, 2023
Subject: District Safety Report for December 2022

Safety Metrics: December 2022

OSHA recordable injuries: Zero

Lost time injuries: Zero

Actual TRIR: 0.0 [Goal < 2.2]

TRIR = Total Recordable Incident Rate

Safety is a Core Value at LRD – *Our conduct is shaped by a personal commitment to protect the health and safety of ourselves and our colleagues. Safety is driven through education, training, planning, protective equipment, and individual accountability.*

OSHA Recordable Incidents/MVA's:

The LRD has now experienced zero OSHA Recordable Injuries for **thirteen** consecutive months. The District has sustained a Total Recordable Incident Rate (TRIR) of **0.0**, below our goal of 2.2. This District is now experiencing a performance best period (recent history) for consecutive months with no recordable injuries.

The District did not experience a Motor Vehicle Accident (MVA) in December. With a total of one MVAs in the last 12-month period, the MVA incident rate is at 1.2. Below the LRD MVA goal of 2.2. The District will need to work MVA free for an additional seven months to reduce the MVA incident rate to 0.0.

Sustainment:

Job Hazard Assessment (JHA) activity bounced back up in December despite the Christmas holiday downtime. The increase in activity follows a reduction in November activity due to the Thanksgiving holiday and hurricane Nicole downtime. December JHAs are the second most ever completed by LRD staff in a given month. The following is a comparison of December JHA's performed per employee in each participating department:

Reuse:	30 JHA / employee	Construction:	7 JHA / employee
Operations:	31 JHA / employee	Inspection:	18 JHA / employee
Collections:	40 JHA / employee	Wild Pine Lab	2 JHA / employee
Maintenance:	30 JHA / employee		

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

JHA and EAM:

The District continues to process approximately 20% of all JHA's on paper. Although it is appreciated that the JHA's are being completed, the District expectation is to integrate the "paper" JHA's into EAM work orders in the January – February 2023 timeframe. In December a total of 943 JHA's were completed electronically through the EAM Work Order process. Approximately 97% of all EAM Work Orders included a completed JHA. This is very good news as data increased from November and meets the expectation of 95%. JHA input in EAM will continue to evolve to create a more efficient and value-added process for District employees. The District Safety Committee members provided task hazard identification details for each respective department. The data will be used to generate JHA checklists in future Work Orders. Maintenance, Reuse, and Inspection, get the shout-out for December for increasing the work order related JHA input by a minimum of 6 per employee. Maintenance rose to the task by an increase of 18 JHA's per employee. Outstanding!! All departments finished the month with a JHA per Work Order percentage rate of at least 95%. Nice job everyone!

There were four Near Miss reports initiated in December. Employees from Reuse, Collections, and Operations, all participated in this program in December. The hazards include two potential chemical exposure, trips slips, and falls, and a blocked access to a wet well. Reporting safety issues in the Near Miss Reporting system can also include Unsafe or Unhealthy Conditions, Environmental Pollution Potential, and Suggestions for Safety Process Improvement. This continuous improvement process will enhance the District's overall safety performance. Your input is important, and each employee is encouraged to participate in this program.

Training:

The emphasis on classroom and computer-based safety training continues. Another fine showing by the District employees as we realized a 96% completion rate for the third month in a row for all safety training tracked in December. This exceeds the District goal of 95%. The focus in December was hand safety and fire prevention. There was no classroom training offered in December. DOT Tanker Endorsements have been obtained by an additional two District employees with CDL Licences in December through testing at the DMV. A total of thirty-two District employees now have received the endorsement since initiation in October. A reminder to all CDL Drivers that the incentive to obtain the Tanker Endorsement expires on January 31, 2023. Please get your tanker endorsement soon. Employees can expect at least one computer-based training module deployed every month. Be on the lookout for training notifications from "platform@targetsolutions" and complete the training on time. If employees are overdue, a computer-based training reminder will be sent through target solutions.



At left: Ross Cowell and John Smith are fitting up the piping for the new headworks grit classifier installation.

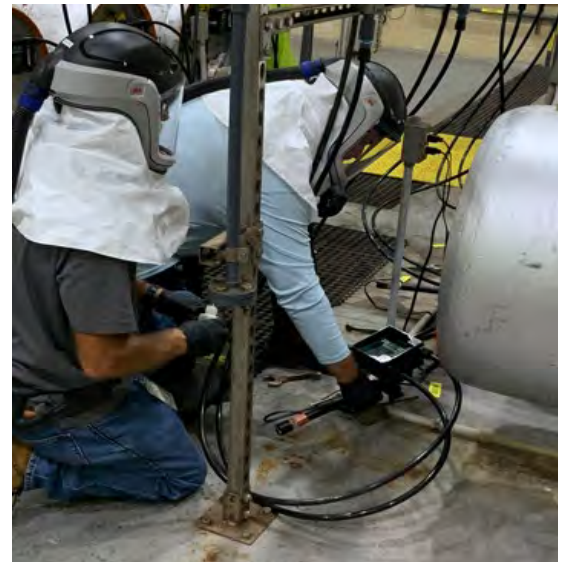


At right: Ross and John ensuring the piping is level prior to final torque of the fasteners.

A total of 10 Workplace inspections occurred in December. District jobs that were observed included Clarifier maintenance, Headworks grit classifier replacement, Headworks generator installation preparations, Lab near miss (GFCI) assessment, Lift Station repairs, road asphalt patching, chlorine building cylinder replacement, and Vac Con waste pit operation.



Teamwork is everything when working on the chlorine cylinders. Nathan Jarvis and Dan Luecht are wearing Powered Air Purifying Respirators as they remove and replace chlorine cylinders in the chloring building.



We are on a roll!!! Congratulation to all District employees who continue to do the right things by performing daily activities in a safe and healthy manner. **Thirteen** consecutive months of injury-free work. I will say it again; District employees work hard and steady with great effort to focus on situational awareness and attention to detail. Working with safety as a foremost consideration can become contagious. Continuing this trend is predicated on a workforce dedicated to ensuring a safe work environment for themselves and their fellow employees. Stay safe at home and at work. As always, my door is always open to discuss any questions or ideas you may have. Do not forget to utilize the near miss reporting system. Let's help each other to stay safe and reach beyond our goals. 13 months of injury free work and counting!



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Governing Board
FROM: Administration Staff
DATE: January 12, 2023
SUBJECT: Consultant Payments

The following amounts have been reviewed and approved for payment to our consultants for work performed during the prior month.

Consultant	Prior Month	Fiscal YTD
Attorneys	\$ 12,930.35	\$ 42,623.17
Baxter & Woodman	\$ 1,447.50	\$ 12,826.43
Chen Moore	—	\$ 17,681.60
Holtz	\$ 55,277.18	\$ 86,429.73
KCI	—	\$ 65,085.50
Mock, Roos & Associates	\$ 12,709.50	\$ 55,072.25
Kimley-Horn & Associates, Inc.	—	\$ 5,316.00

Should you have any questions regarding these items, please contact Kara Fraraccio concerning the attorney invoices, and Kris Dean concerning the engineer invoices.

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Dr. Matt H. Rostock
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



Future Business

General:

- LRD Rule Chapter 31-13 Regulation of Sewer Use
- 20 Acre Conceptual Site Plan – Final Presentation
- Renewal of Executive Director's Employment Agreement
- Board Presentation of select Six Sigma green belt projects

Future Contracts:

- County Line Road Bridge Utility Relocation – Joint Project Interlocal Agreement with Village of Tequesta
- Lift Station 054 System Cleanout Installation - Construction Contract Award
- Lift Station 050 Emergency Generator and Automatic Transfer Switch – to approve Professional Engineering Services Agreement

